



Creativity Progress & Excellence

Analog Product





CAMERA

360° Panorama Dome Camera

Box Camera

Dome Camera

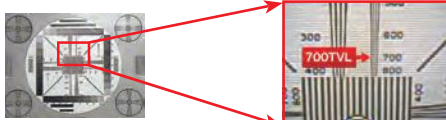
IR Camera





Resolution Of 700TV Lines

By adopting a diagonal 6mm(1/3") 480K pixels, 570K pixels CCD, the camera produces clear picture quality with a horizontal resolution of 700TV lines for color.



700 TVL



700 TVL



Conventional



High Light Compensation

Improves the visual recognition of license plates and other such objects by suppressing or masking strong light sources (such as the headlights of automobiles) in dark places.



Conventional



HLC



Adaptive Tone Reproduction

Improves the visibility of the entire picture by providing the optimum gradation compensation.



Conventional



2D ATR



AWB

Allows the color camera to adjust the tone according to the light source, adjust to produce white color while detecting white color object in the scene.



AWB OFF



AWB ON



Noise Reduction

Reduces the image noise in order to improve the image quality of the camera, in particular, it reduces the noise which is generated under low-brightness shooting conditions and other high-gain states

Noise reduction keeping image sharpness (2D)



NR Off



Conventional NR



Preserved edge by New 2D-NR



Privacy Zone

Privacy zones prevent objects and areas such as windows and doors which are within the camera's viewing range but not in the scope of surveillance, 8 masking areas per screen simultaneously.



Conventional



Privacy Zone



OSD

This camera provides an on screen display (OSD) setup menu where all advanced functions can be selected and setup via OSD.



Color Rolling Suppression (ANTI CR)

Suppresses the color rolling which arises when there are slight deviations between the blinking frequency of non-inverter fluorescent lights and the drive frequency of the image sensor devices.



ANTI CR





Vari-Focal

Adjustable lens, can zoom in or zoom out, and iris adjust automatically.



Vari-Focal



Zoom in



Zoom out



Wide Dynamic Range

Wide Dynamic Range – utilizes 1/3" Vertical Double-Density Interline CCD Sensor incorporating powerful 3D WDR, captures cleaner and superior high resolution pictures even in harsh lighting conditions typically experienced when outside sunlight and indoor light sources overlap.



BLC

When light is behind the main object, the main object and background's light and shade contrast is big, uses backlight compensation function to make both main object and background exposure level close.



BLC OFF



BLC ON



Highlight Suppress Back Light Compensation

The HSBLC function that effectively blocks strong light sources such as headlights. It provides optimum performance in recognizing vehicular license plates and objects at night.



Conventional



HSBLC



Day & Night with IR Cut Filter

Day & Night- equip with built-in Mechanical ICR filter perfect for 24-hour and 7 day (24/7) surveillance. It provides perfectly visible colors during daylight and IR Cut filter remove automatically at night time to give clear B/W images at night as well.



Day



Night



Privacy Zone

Privacy Zone – with the advanced Privacy Zone Masking function, unwanted or prohibited areas within an image can be masked appropriately.



Conventional



Privacy Zone



Slow shutter

Under low illumination, could make objects background brighter.

(2~16Fld / 24Fld / 32Fld / 64Fld / 128Fld / 256Fld / 512Fld)



Slow Shutter OFF



Slow Shutter ON



Sens-Up –equipped with a maximum X256 sens

Sens-Up –equipped with a maximum X256 sensup and low luminance levels of 0.0002 Lux (F1.2), the camera achieves excellent performance in processing images especially in very low light conditions.



Sens.Up OFF

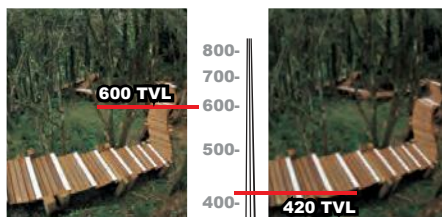


Sens.Up ON



Ultrahigh Resolution 600TVL

Ultrahigh Resolution 600TVL – the camera delivers unmatched imaging with 600TVL Ultra high Resolution color and 700 TVL black & white.conditions.



Color:600TVL



Mono:700TVL



AGC

In low brightness situation, the Auto Gain Control will be adjusted according to lighting condition for displaying a bright and clear image.



AGC OFF



AGC ON



Vandal Proof

Withstand a blow from a 10 lbs sledgehammer



DZ : Digital Zoom

Digital Zoom (From 1 time to 10 times)



Original(1x)



2x ZOOM



10x ZOOM



Electronic Image Stabilizer

The EIS function compensates for any camera movement, to produce more stable pictures.



EIS OFF



EIS ON



IP Rated

IP Rated, water-proof and dust proof



3D Digital Noise Reduction

3D Digital Noise Reduction – accomplish more precise noise reduction, consequently producing the most vivid and razor sharp imaging.



DNR OFF



DNR ON



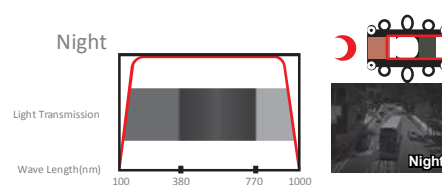
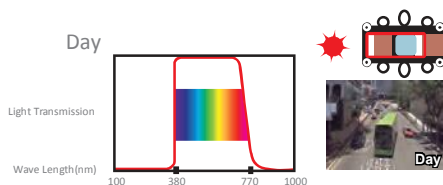
Dual Voltage

DC12V / AC24V



IR Cut Filter

Auto Selectable / Automatic Switch from Color Mode to Monochrome.



IR LED

Built in Infrared LED, enhance the brightness of illuminated object.



IR LED OFF



IR LED ON



OSD

On-screen display function may display date, time, camera ID, system configuration and control details.



AWB

Allows the color camera to adjust the tone according to the light source, adjust to produce white color while detecting white color object in the scene.



AWB OFF

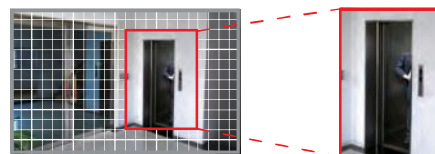


AWB ON



Motion Detection

Since the camera detects motion without any additional external sensor, you can monitor activity more efficiently.



alarm



Audio Output

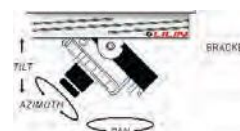


Audio Output



3-X

3-Axis Camera Construction



Optical Zoom Lens

Choice of 2.6X.12X.25X.30X.35X optical zoom with maintain focus.



Conventional



Optical Zoom Lens



Flickerless

Prevent image flickering cause by different frequency between light and camera system.



CMD2422S / 2422SC

Camera Series
Dome Camera

2M-Pixel 360° Panorama 4CH Dome Camera

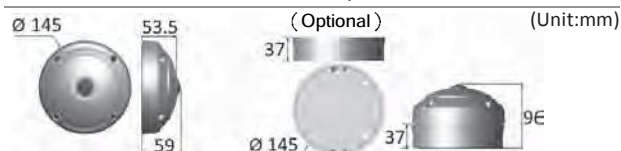


Features

- HD MEGAPIXEL CMOS Image Sensor
- Day&Night (IR Cut Removeable)
- Provide 360 degree view of entire scene without any blind spot.
- 360 degree entire scene from one camera and no mechanical PTZ (Pan, Tilt, Zoom) motor needed.
- Each viewer channel controlled independently.
- RS-485 control interface
- Auto Mode
- On screen display setup



Dimensiones $\Phi 145 \times 59\text{mm}$ / $\Phi 145 \times 96\text{mm}$



Dome Camera			
Name		2M-Pixel 360° Panorama 4CH Analog Dome Camera	
Series Number		CMD2422S / CMD2422SC	
Model		CMD2422S	CMD2422SC
Lens	Focal Length		1.25mm
	Minimum Aperture Ratio (F Number)		F2.0
	Angle Field of View	H	185°
		V	185°
		D	185°
Day & Night		Schedule / Day(Color) / Night(B/W)	
Image Pick-up Device		1/3" Progressive scan CMOS sensor (4:3)	
Effective Pixels		1600(H) x 1200(V) = 1,920,000(pixel)	
Active Image Size		4.73mm(H) x 3.52mm(V) x 5.60mm(D)	
Resolution		Input: 1600(H) x 1200(V) Output: 4 x D1(N/P)2:1 Interlace(BNC)	Input: 1600(H) x 1200(V) Output: 4 x D1(N/P)2:1 Interlace(RJ45)
Minimum Illumination		Color : 1 Lux (F2.0) , B/W : 0.5 Lux (F2.0) , 0 Lux (IR LED Turn ON)	
Signal to Noise Ratio		More Than 45dB (AGC-OFF)	
Auto Gain Control		Auto	
White Balance		ATW/Manual/3200°K/5600°K/6500°K	
BackLight Compensation		On	
Shutter Speed		1/60 ~ 1/10000s	
IP Rating		IP66	
Ambient Operation Temperature		-10°C ~ +50°C (14°F ~ 122°F)	
Dimensions		Φ145 x 59mm / Φ145 x 96mm	
Weight		500g / 800g (Ceiling Mount)	
Power Consumption		DC12V,8.5W	
Power Supply		DC12V ±10%	
ePan & Tilt	Panning Range		360° Endless
	Tilting Range		90°
	Panning/Tilting Speed		Manual 0.15°/sec ~ 120°/sec , Preset Position 1°/sec ~ 255°/sec
	Panning/Tilting Mode		Manual , Auto , Manual Position , Sequential Position
Main Function	Control Interface		RS-485
	Protocol		MLP2/D-Protocol
	System		256
	Control Setting		OSD
	Character Display		On / Off (Date / Time , Pan / Tilt Angle)
	Preset Position		128
	Auto Mode		OFF / AUTO / SEQ / TOUR
	Self Run Mode		OFF / HOME / AUTO / SEQ / TOUR
Schedule Mode		OFF / AUTO / SEQ / TOUR	



CMG 1086 / 1088

Camera Series
Box type Camera

D/N ATR 700TVL Camera



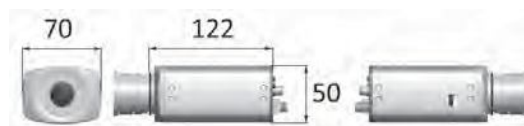
Features

- Resolution Of 700TV Lines
- Adaptive Tone Reproduction (ATR)
- Noise Reduction (2D-NR)
- High Light Compensation (HLC)
- Color Rolling Suppression (ANTI CR)
- Day&Night (IR CUT Removable)
- Motion Detection
- White Balance
- On Screen Display Control (OSD)
- Privacy Zone
- Shutter



Dimensiones 70mm(W) x 50mm(H) x 122mm(D)

(Unit:mm)



Box Type Camera

Name		D/N ATR 700TVL Camera	
Series Number		CMG1086 / 1088	
Model		CMG1086N/P	CMG1088N/P
Power Input Voltage		DC12V \pm 10% / AC24V \pm 10%	
Pick Up Element		Sony 1/3" Exview HAD CCD Sensor	
Effective Pixels	NTSC	976(H) x 494(V)	
	PAL	976(H) x 582(V)	
Chip Size		5.58mm(H) x 4.67mm	
Horizontal & Vertical Sync. Frequency	NTSC	15.734 KHz / 59.94Hz	
	PAL	15.625 KHz / 50Hz	
Scanning System		2:1 Interlace	
Menu Control		OSD Control	
Sync. Mode		Internal / Line-Lock, DC12V: Sync. Mode is fixed to Internal	
Day/Night		Internal(AUTO/ COLOR/ B/W) / External	
Resolution		Color: 700TV Lines, Mono: 750TV Lines	
Minimum Illumination	Color	0.025Lux / F1.2	
	Mono	0.005Lux / F1.2	
S/N Ratio		More Than 50dB (AGC-OFF)	
Auto Gain Control		AUTO / MANUAL	
White Balance		ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK	
Electronic Shutter	Auto	1/60(1/50)S ~ 1/100,000S	
	Manual(DIP SW.)	1/100(1/120)S, 1/150S, 1/200S, 1/250S, 1/300S, 1/350S, 1/400S, 1/450S	
	Manual(OSD)	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S, 1/2,000S, 1/4,000S, 1/10,000S	
Adaptive Tone Reproduction	Luminance	LOW / MID / HIGH	
	Contrast	LOW / MIDLOW / MID / MIDHIGH / HIGH	
Back Light Compensation		OFF / BLC / HLC(High Light Compensation)	
Noise Reduction		Y / C / Y/C / OFF	
Picture Adjust		MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN	
Privacy Masking		ON / OFF	
Privacy Masking Zone		8 Zones	
Motion Detection		ON / OFF	
Motion Detection Zone		4 Zones	
Motion Detection Trigger		NO / NC	
Alarm Output			
OSD Language		ENGLISH/JAPANESE/GERMAN/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE	
Video Output		CVBS 1.0Vp-p, 75 Ohm	
Audio Output		Yes	
Lens Mount		C or CS Mount	
Auto Iris Drive		Direct Drive(DC) or Video Drive	
Gamma Characteristic		γ =0.45	
Power Consumption		5.7W (DC12V) / 4.2W (AC24V)	6.3W
Operating Temperature		-10°C~+50°C (14°F~122°F)	
Dimension		70mm(W) x 50mm(H) x 122mm(D)	
Weight		530g	



CMD 2082

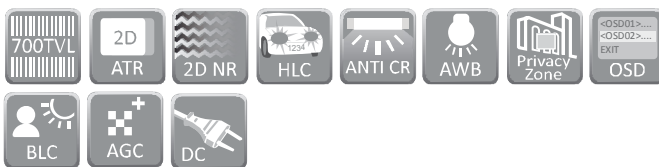
Camera Series
Dome Camera

ATR 700TVL Color Mini Dome Camera

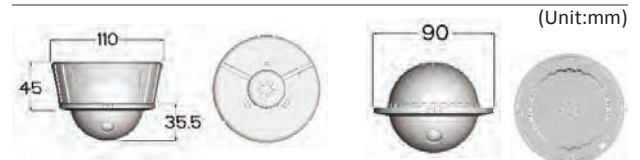


Features

- Resolution Of 700TV Lines
- Adaptive Tone Reproduction(ATR)
- Noise Reduction(2D-NR)
- High Light Compensation(HLC)
- Color Rolling Suppression(ANTI CR)
- White Balance
- On Screen Display(OSD)
- Privacy Zone



Dimensiones Dome: $\phi 62.2$, Base & Fix Ring: $\phi 110 \times 45\text{mm}$



Dome Camera			
Name		ATR 700TVL Color Mini Dome Camera	
Series Number		CMD2082	
Model		CMD2082N/P3.6	CMD2082N/P6
Lens	Focal Length		3.6mm
	Iris		F2.0
	Angle of View	H	73°
		V	54.5 °
	D	92°	
Power Input Voltage		DC12V(±10%)	
Pick Up Element		Sony 1/3" Exview HAD CCD Sensor	
Effective Pixels	NTSC	976(H) x 494(V) [NTSC]	
	PAL	976(H) x 582(V) [PAL]	
Chip Size		5.58mm(H) x 4.67mm(V)	
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz [NTSC]	
	PAL	15.625KHz / 50Hz [PAL]	
Scanning System		2:1 Interlace	
Menu Control		OSD Control	
Sync. Mode		Internal	
Resolution		700 TV Lines	
Min. Illumination		0.2 Lux / F1.8	
S/N Ratio		More than 50dB (AGC-OFF)	
Auto Gain Control		AUTO / MANUAL	
White Balance		ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK	
Electronic Shutter	Auto	1/60(1/50)S ~ 1/100,000S	
	Manual	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S / 1/2,000S / 1/4,000S / 1/10,000S	
Adaptive Tone Reproduction	Luminance	LOW / MID / HIGH	
	Contrast	LOW / MIDLOW / MID / MIDHIGH / HIGH	
Back Light Compensation		OFF / BLC / HLC(High Light Compensation)	
Noise Reduction		Y / C / Y/C / OFF	
Picture Adjust		MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN	
Privacy Masking		ON / OFF	
Privacy Masking Zone		8 Zones	
OSD Language		ENGLISH/JAPANESE/GERMANS/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE	
Video Output		CVBS1.0Vp-p, 75Ohm	
Gamma Characteristic		γ=0.45	
Power Consumption		1.9W	
Operating Temperature		-10℃~ +50℃ (14°F ~ 122°F)	
Dimension		Dome: ϕ62.2, Base & Fix Ring: ϕ110 x 45mm	
Weight		350g	



CMD 2182 / 2186

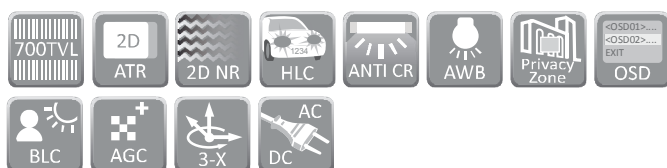
Camera Series
Dome Camera

ATR 700TVL Color Dome Camera



Features

- Resolution Of 700TV Lines
- Adaptive Tone Reproduction(ATR)
- Noise Reduction(2D-NR)
- High Light Compensation(HLC)
- Color Rolling Suppression(ANTI CR)
- White Balance
- On Screen Display(OSD)
- Privacy Zone
- 3-Axis camera construction



Dimensiones $\phi 120 \times 102\text{mm}$



(Unit:mm)

Dome Camera					
Name		ATR 700TVL Color Dome Camera			
Series Number		CMD2182 / 2186			
Model		CMD2182N/P3.6	CMD2182N/P6	CMD2186N/P3.6	CMD2186N/P6
Lens	Focal Length	3.6mm	6.0mm	3.6mm	6.0mm
	Iris	F2.0	F1.8	F2.0	F1.8
	Angle of View	H	73°	44.5°	73°
		V	54.5°	33.1°	54.5°
D		92°	56°	92°	
Power Input Voltage		DC12V ±10%		DC12V ±10% AC24V ±10%	
Pick Up Element		Sony 1/3" Exview HAD CCD Sensor			
Effective Pixels	NTSC	976(H) x 494(V) [NTSC]			
	PAL	976(H) x 582(V) [PAL]			
Chip Size		5.58mm(H) x 4.67mm(V)			
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz [NTSC]			
	PAL	15.625KHz / 50Hz [PAL]			
Scanning System		2:1 Interlace			
Menu Control		OSD Control			
Sync. Mode		Internal			
Resolution		700 TV Lines			
Min. Illumination		0.2 Lux / F1.8			
S/N Ratio		More than 50dB (AGC-OFF)			
Auto Gain Control		AUTO / MANUAL			
White Balance		ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK			
Electronic Shutter	Auto	1/60(1/50)S ~ 1/100,000S			
	Manual	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S / 1/2,000S / 1/4,000S / 1/10,000S			
Adaptive Tone Reproduction	Luminance	LOW / MID / HIGH			
	Contrast	LOW / MIDLOW / MID / MIDHIGH / HIGH			
Back Light Compensation		BLC / HLC(High Light Compensation) / OFF			
Noise Reduction		Y / C / Y/C / OFF			
Picture Adjust		MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN			
Privacy Masking		ON / OFF			
Privacy Masking Zone		8 Zones			
OSD Language		ENGLISH/JAPANESE/GERMANS/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE			
Video Output		CVBS1.0Vp-p, 75Ohm			
Gamma Characteristic		γ=0.45			
Power Consumption		1.9W		2.7W(DC12V) 2.2W(AC24V)	
Operating Temperature		-10°C~ +50°C (14°F ~ 122°F)			
Dimension		φ120 x 102mm			
Weight		290g		310g	



CMD 2182X / 2186X

Camera Series
Dome Camera

D/N ATR 700TVL Vari-Focal Dome Camera



Features

- Resolution Of 700TV Lines
- Adaptive Tone Reproduction(ATR)
- Noise Reduction(2D-NR)
- High Light Compensation(HLC)
- Color Rolling Suppression(ANTI CR)
- Day & Night (IR Cut Removable)
- White Balance
- On Screen Display(OSD)
- Privacy Zone
- 3-Axis camera construction
- Built-in 3.6X Megapixel Vari-Focal Lens



Dimensiones $\phi 120 \times 102\text{mm}$

(Unit:mm)



Dome Camera			
Name		D/N ATR 700TVL Vari-Focal Dome Camera	
Series Number		CMD2182x / CMD2186X	
Model		CMD2182X3.6N/P	CMD2186X3.6N/P
Lens	Focal Length		3.3~12mm
	Iris		F1.4
	Angle of View	H	89.8° ~ 23.9°
		V	63.6° ~ 17.9°
D		125.7° ~ 29.9°	
Power Input Voltage		DC12V 10%	DC12V ±10% AC24V ±10%
Pick Up Element		Sony 1/3" Exview HAD CCD Sensor	
Effective Pixels	NTSC	976(H) x 494(V) [NTSC]	
	PAL	976(H) x 582(V) [PAL]	
Chip Size		5.58mm(H) x 4.67mm(V)	
H & V Sync. Frequency	NTSC	15.734KHz / 59.94Hz [NTSC]	
	PAL	15.625KHz / 50Hz [PAL]	
Scanning System		2:1 Interlace	
Menu Control		OSD Control	
Sync. Mode		Internal	
IR Cut Filter		Auto Selectable, Automatic Switch From Color Mode to Monochrome	
Resolution		Color: 700TV Lines , Mono: 750TV Lines	
Min. Illumination		Color: 0.045Lux / F1.4 Mono: 0.009Lux / F1.4	
S/N Ratio		More than 50dB (AGC-OFF)	
Auto Gain Control		AUTO / MANUAL	
White Balance		ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK	
Electronic Shutter	Auto	1/60(1/50)S ~ 1/100,000S	
	Manual	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S / 1/2,000S / 1/4,000S / 1/10,000S	
Adaptive Tone Reproduction	Luminance	LOW / MID / HIGH	
	Contrast	LOW / MIDLOW / MID / MIDHIGH / HIGH	
Back Light Compensation		BLC / HLC(High Light Compensation) / OFF	
Noise Reduction		Y / C / Y/C / OFF	
Picture Adjust		MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN	
Privacy Masking		ON / OFF	
Privacy Masking Zone		8 Zones	
OSD Language		ENGLISH/JAPANESE/GERMANS/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE	
Video Output		CVBS1.0Vp-p, 75Ohm	
Gamma Characteristic		γ=0.45	
Power Consumption		2.5W	3.3W(DC12V) 2.7W(AC24V)
Operating Temperature		-10°C~ +50°C (14°F ~ 122°F)	
Dimension		φ120 x 102mm	
Weight		320g	340g



CMR 6082X / 6086X

Camera Series
IR Camera

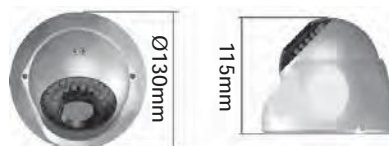
D&N Vandal Resistant 700TVL Vari-Focal IR Dome Camera



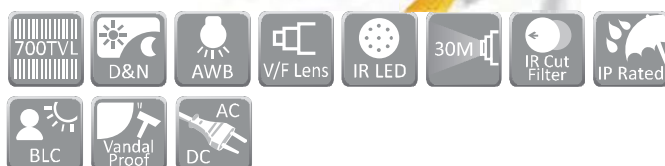
Features

- Resolution Of 700TV Lines
- Day & Night (IR Cut Removable)
- White Balance
- High Efficiency IR LED(Ø5*35Pcs); Radiant Distance 30M
- Aluminum Housing with IP66 Rating
- Housing and Bottom Chassis are Integrated
- Innovative External Adjustment with Waterproof for Zoom and Focus of Vari-Focal Lens
- Impact Resistant Polycarbonate Transparent Mask
- Infrared Cut Filter Mechanism, Auto Color & Mono Switching
- Automatically Activates IR LED: Below 10Lux
- Built-in 3.6X Megapixel Vari-Focal Lens

Dimensiones $\phi 130 \times 115\text{mm}$



(Unit:mm)



Weatherproof & Vandal Proof IR Dome Camera			
Name		D/N Vandal Resistant 700TVL Vari-Focal IR Dome Camera	
Series Number		CMR6082X / CMR6086X	
Model		CMR6082X3.6N/P	CMR6086X3.6N/P
Lens	Focal Length		3.3 ~ 12mm
	Iris		F1.4
	Angle of view	H	89.8° ~ 23.9°
		V	63.6° ~ 17.9°
		D	125.7° ~ 29.9°
Power Input Voltage		DC12V ±10%	DC12V ±10% / AC24V ±10%
Sync. Mode		Internal	
Pick Up Element		Sony 1/3" Exview HAD CCD Sensor	
Effective Pixels		976(H) x 494(V) [NTSC] / 976(H) x 582(V) [PAL]	
Chip Size		5.58mm(H) x 4.67mm(V)	
Horizontal & Vertical Sync. Frequency		15.734 KHz / 59.94Hz [NTSC] / 15.625 KHz / 50Hz [PAL]	
Scanning System		2 : 1 Interlace	
InfraredCutFilter		Auto Selectable, Automatic Switch From Color Mode to Monochrome	
Resolution		Color: 700 TV Lines, Mono: 750TV Lines	
Minimum Illumination		Color: 0.045Lux/F1.4 , Mono: 0.009Lux/F1.4, 0Lux (IR ON)	
S/N Ratio		More Than 50dB (AGC OFF)	
Auto Gain Control		44.8dB Variable Gain	
White Balance		ATW	
Aperture Correction		Horizontal, Vertical	
Power Consumption		6.8W	7.6W (DC12V) / 6.4W (AC24V)
Back Light Compensation		Auto	
Video Output		CVBS 1.0Vp-p , 75Ohm	
Operating Temperature		- 1 0°C ~ +50°C(1 4°F ~ 122°F)	
Gamma Characteristic		γ=0.45	
IP Rating		IP66	
Vandal Proof		Withstand a blow from a 10 lbs sledgehammer	
Infrared LED	Peak Wavelength		850nm
	Beam Spread		30°
	Radiant Distance		30M
Dimension		φ130 x 115mm	
Weight		880g	900g



CMR 7082 / 7084 / 7088

Camera Series
IR Camera

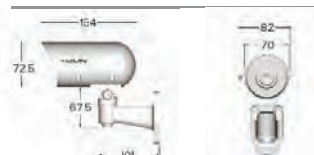
D&N ATR 700TVL IR Camera



Features

- Resolution Of 700TV Lines
- Adaptive Tone Reproduction(ATR)
- Noise Reduction(2D-NR)
- High Light Compensation(HLC)
- Color Rolling Suppression(ANTI CR)
- Day & Night
- White Balance
- On Screen Display(OSD)
- Privacy Zone
- Radiant Distance Up to 30M

Dimensiones Body:82mm(W) x 72.5mm(H) x 154mm(D),
Bracket: 101mm(L)



(Unit:mm)

Weatherproof IR Camera								
Name			D/N ATR 700TVL IR Camera					
Series Number			CMR7082N / CMR7084 / CMR7088N					
Model			CMR7082N/P3.6	CMR7082N/P6	CMR7084N/P3.6	CMR7084N/P6	CMR7088N/P3.6	CMR7088N/P6
Lens	Focal Length		3.6mm	6mm	3.6mm	6mm	3.6mm	6mm
	Iris		F2.0	F1.8	F2.0	F1.8	F2.0	F1.8
	Angle of view	H	73°	44.5°	73°	44.5°	73°	44.5°
		V	54.5°	33.1°	54.5°	33.1°	54.5°	33.1°
			D	92°	56°	92°	56°	92°
Power Input Voltage			DC12V (±10%)		AC24V (±10%)		AC100~240V	
Pick Up Element			Sony 1/3" Exview HAD CCD Sensor					
Effective Pixels		NTSC	976(H) x 494(V)					
		PAL	976(H) x 582(V)					
Chip Size			5.58mm(H) x 4.67mm(V)					
H & V Sync.		NTSC	15.734 KHz / 59.94Hz					
Frequency		PAL	15.625 KHz / 50Hz					
Scanning System			2:1 Interlace					
Menu Control			OSD Control					
Sync. Mode			Internal					
Resolution			700TV Lines					
Minimum Illumination			0.2Lux/F1.8, 0Lux(IR On)					
S/N Ratio			More Than 50dB (AGC-OFF)					
Auto Gain Control			AUTO / MANUAL					
White Balance			ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK					
Electronic Shutter		Auto	1/60(1/50)S ~ 1/100,000S					
		Manual	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S, 1/2,000S, 1/4,000S, 1/10,000S					
Adaptive Tone		Luminance	LOW / MID / HIGH					
Reproduction		Contrast	LOW / MIDLOW / MID / MIDTHIGH / HIGH					
Back Light Compensation			BLC / HLC(High Light Compensation) / OFF					
Noise Reduction			Y / C / Y/C / OFF					
Picture Adjust			MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN					
Privacy Masking			ON / OFF					
Privacy Masking Zone			8 Zones					
OSD Language			ENGLISH/JAPANESE/GERMANS/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE					
Video Output			CVBS 1.0Vp-p, 75 Ohm					
Gamma Characteristic			γ=0.45					
Power Consumption			7.8W		11W			
Operating Temperature			- 10°C ~ +50°C(14°F ~ 122°F)					
IP Rating			IP66					
Window			Φ65 Heat Resistant Glass					
Infrared LED		Peak Wavelength	850nm					
		Beam Spread	30°					
		Radiant Distance	30M					
Dimension			Body:82mm(W) x 72.5mm(H) x 154mm(D), Bracket: 101mm(L)					
Weight			530g			540g		



CMR 7082X

Camera Series
IR Camera

D/N ATR 700TVL Vari-Focal IR Camera



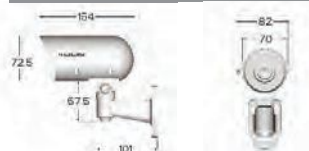
Features

- Resolution Of 700TV Lines
- Adaptive Tone Reproduction(ATR)
- Noise Reduction(2D-NR)
- High Light Compensation(HLC)
- Color Rolling Suppression(ANTI CR)
- Day & Night (IR Cut Removable)
- White Balance
- On Screen Display(OSD)
- Privacy Zone
- Radiant Distance Up to 30M
- Built-in 3.6X Megapixel Vari-Focal Lens



Dimensions Body : 82mm(W) x 72.5mm(H) x 154mm(D)

Bracket: 101mm(L)
(Unit:mm)



Weatherproof IR Camera			
Name		D/N ATR 700TVL Vari-Focal IR Camera	
Series Number		CMR7082X	
Model		CMR7082X3.6N/P	
Lens	Focal Length		3.3 ~ 12mm
	Iris		F1.4
	Angle of view	H	89.8 ~ 23.9
		V	63.6 ~ 17.9
D		125.7 ~ 29.9	
Power Input Voltage		DC12V (±10%)	
Pick Up Element		Sony 1/3" Exview HAD CCD Sensor	
Effective Pixels	NTSC	976(H) x 494(V)	
	PAL	976(H) x 582(V)	
Chip Size		5.58mm(H) x 4.67mm(V)	
H&V Sync. Frequency	NTSC	15.734 KHz / 59.94Hz	
	PAL	15.625 KHz / 50Hz	
Scanning System		2:1 Interlace	
Menu Control		OSD Control	
Sync. Mode		Internal	
Infrared Cut Filter		Auto Selectable, Automatic Switch From Color Mode to Monochrome	
Resolution		Color: 700TV Lines, Mono: 750TV Lines	
Minimum Illumination	Color	0.045Lux / F1.4	
	Mono	0.009Lux / F1.4	
	IR On	0Lux	
S/N Ratio		More Than 50dB (AGC-OFF)	
Auto Gain Control		AUTO / MANUAL	
White Balance		ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK	
Electronic Shutter	Auto	1/60(1/50)S ~ 1/100,000S	
	Manual	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S, 1/2,000S, 1/4,000S, 1/10,000S	
Adaptive Tone Reproduction	Luminance	LOW / MID / HIGH	
	Contrast	LOW / MIDLOW / MID / MIDHIGH / HIGH	
Back Light Compensation		BLC / HLC(High Light Compensation) / OFF	
Noise Reduction		Y / C / Y/C / OFF	
Picture Adjust		MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN	
Privacy Masking		ON / OFF	
Privacy Masking Zone		8 Zones	
OSD Language		ENGLISH/JAPANESE/GERMANS/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE	
Video Output		CVBS 1.0Vp-p, 75 Ohm	
Gamma Characteristic		γ=0.45	
Power Consumption		6.8W	
Operating Temperature		- 1 0°C ~ +50°C(1 4°F ~ 122°F)	
IP Rating		IP66	
Windows		Φ65 Heat Resistant Glass	
InfraredLED	PeakWavelength	850nm	
	Radiant Distance	30°	
	Beam Spread	30M	
Dimension		Body:82mm(W) x 72.5mm(H) x 154mm(D), Bracket: 101mm(L)	
Weight		550g	



CMR 7284X / 7288X

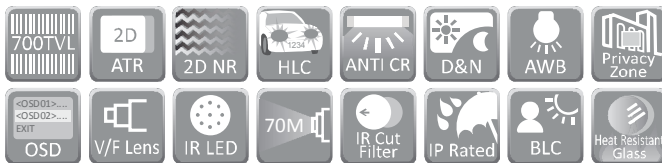
Camera Series
IR Camera

D/N ATR 700TVL Vari-Focal IR Camera



Features

- Resolution Of 700TV Lines
- Adaptive Tone Reproduction(ATR)
- Noise Reduction(2D-NR)
- High Light Compensation(HLC)
- Color Rolling Suppression(ANTI CR)
- Day & Night (IR Cut Removable)
- White Balance
- On Screen Display(OSD)
- Privacy Zone
- Radiant Distance Up to 70M
- Built-in 3.6X Megapixel Vari-Focal Lens



Dimensions Body: 120mm(W) x 112mm(H) x 328mm(D)

Bracket:211.5mm (L)
(Unit:mm)



Weatherproof IR Camera

Name			D/N ATR 700TVL Vari-Focal IR Camera			
Series Number			CMR7284X / CMR7288X			
Model			CMR7284X3.6N/P	CMR7284X2.4N/P	CMR7288X3.6N/P	CMR7288X2.4N/P
Lens	Focal Length		3.3 ~ 12mm	9 ~ 22mm	3.3 ~ 12mm	9 ~ 22mm
	Iris		F1.4			
	Angle of View	H	89.8° ~ 23.9°	32.1° ~ 13.1°	89.8° ~ 23.9°	32.1° ~ 13.1°
		V	63.6° ~ 17.9°	23.3° ~ 9.8°	63.6° ~ 17.9°	23.3° ~ 9.8°
			D	125.7° ~ 29.9°	125.7° ~ 29.9°	41.9° ~ 16.3°
Power Supply			AC24V (±10%)		AC100~240V	
Pick Up Element			Sony 1/3" Exview HAD CCD Sensor			
Effective Pixels			976(H) x 494(V) [NTSC] / 976(H) x 582(V) [PAL]			
Chip Size			5.58mm(H) x 4.67mm(V)			
H/V Sync.Frequency			15.734 KHz / 59.94Hz [NTSC] / 15.625 KHz / 50Hz [PAL]			
Scanning System			2:1 Interlace			
Menu Control			OSD Control			
Sync. Mode			Internal			
Infrared Cut Filter			Auto Selectable, Automatic Switch From Color Mode to Monochrome			
Resolution			Color: 700TV Lines, Mono: 750TV Lines			
Minimum Illumination	Color	0.045Lux / F1.4				
	Mono	0.009Lux / F1.4				
	IR On	0Lux				
S/N Ratio			More Than 50dB (AGC-OFF)			
Auto Gain Control			AUTO / MANUAL			
White Balance			ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK			
Electronic Shutter	Auto	1/60(1/50)S ~ 1/100,000S				
	Manual	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S, 1/2,000S, 1/4,000S, 1/10,000S				
Adaptive Tone Reproduction	Luminance	LOW / MID / HIGH				
	Contrast	LOW / MIDLOW / MID / MIDHIGH / HIGH				
Back Light Compensation			BLC / HLC(High Light Compensation) / OFF			
Noise Reduction			Y / C / Y/C / OFF			
Picture Adjust			MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN			
Privacy Masking			ON / OFF			
Privacy Masking Zone			8 Zones			
OSD Language			ENGLISH/JAPANESE/GERMAN/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE			
Video Output			CVBS 1.0Vp-p, 75 Ohm			
Gamma Characteristic			γ=0.45			
Power Consumption			14W			
Operating Temperature			-10°C ~ +50°C (14°F~ 122°F)			
IP Rating			IP66			
Windows			φ78 Heat Resistant Glass			
InfraredLED	Peak Wavelength		850nm			
	Radiant Distance		30°			
	Beam Spread		70M			
Dimension			Body:120mm(W) x 112mm(H) x 328mm(D), Bracket: 211.5mm(L)			
Weight			2000g			



CMR 7384X / 7388X

Camera Series
IR Camera

D/N ATR 700TVL Vari-Focal IR Camera

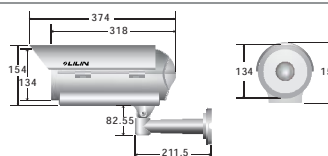


Features

- Resolution Of 700TV Lines
- Adaptive Tone Reproduction(ATR)
- Noise Reduction(2D-NR)
- High Light Compensatooon(HLC)
- Color Rolling Suppression(ANTI CR)
- Day & Night (IR Cut Removable)
- White Balance
- On Screen Display(OSD)
- Privacy Zone
- Radiant Distance Up to 100M
- Built-in 10X Megapixel Vari-Focal Lens



Dimensions Body: 146mm(W) x 154mm(H) x 374mm(D)



Bracket:211.5mm (L)
(Unit:mm)

Weatherproof IR Camera

Name			D/N ATR 700TVL Vari-Focal IR Camera			
Series Number			CMR7384X / 7388X			
Model			CMR7384X10N/P		CMR7388X10N/P	
Lens	Focal Length		5 ~ 50mm			
	Iris		F1.4			
	Angle of View	H	51.5° ~ 6.5°			
		V	37.5° ~ 5.0°			
			D	6 5° ~ 8.1		
Power Supply			AC24V (±10%)		AC100~240V	
Pick Up Element			Sony 1/3" Exview HAD CCD Sensor			
Effective Pixels	NTSC		976(H) x 494(V) [NTSC]			
Chip Size	PAL		976(H) x 582(V) [PAL]			
H/V Sync. Frequency	NTSC		5.58mm(H) x 4.67mm(V)			
Scanning System	PAL		15.734 KHz / 59.94Hz [NTSC]			
Menu Control			15.625 KHz / 50Hz [PAL]			
Sync. Mode			2:1 Interlace			
Infrared Cut Filter			OSD Control			
Resolution			Internal			
Minimum Illumination	Color	Auto Selectable, Automatic Switch From Color Mode to Monochrome				
	Mono	Color: 700TV Lines, Mono: 750TV Lines				
	IR On	0.045Lux / F1.4				
S/N Ratio			0.009Lux / F1.4			
Auto Gain Control			0Lux			
White Balance			More Than 50dB (AGC-OFF)			
Electronic Shutter	Auto	AUTO / MANUAL				
Adaptive Tone Reproduction	Manual	ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK				
Back Light Compensation	Luminance	1/60(1/50)S ~ 1/100,000S				
Noise Reduction	Contrast	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S, 1/2,000S, 1/4,000S, 1/10,000S				
Picture Adjust			LOW / MID / HIGH			
Privacy Masking			LOW / MIDLOW / MID / MIDHIGH / HIGH			
Privacy Masking Zone			BLC / HLC(High Light Compensation) / OFF			
OSD Language			Y / C / Y / C / O F F			
Video Output			MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN			
Gamma Characteristic			ON / OFF			
Power Consumption			8 Zones			
Operating Temperature			ENGLISH/JAPANESE/GERMAN/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE			
IP Rating			CVBS 1.0Vp-p, 75 Ohm			
Windows			γ=0.45			
Blower Control			22W			
Heater Control			-10°C ~ + 50°C (14°F ~122°F)			
InfraredLED	Peak Wavelength	IP66				
	Radiant Distance	Φ110 Heat Resistant Glass				
	Beam Spread	On:35°C , Off:25°C				
Dimension			On:15°C , Off:25°C			
Weight			850nm			
			100M			
			10° + 30°			
			Body:146mm(W) x 154mm(H) x 374mm(D), Bracket: 211.5mm(L)			
			3700g			



CMR 7484X / 7488X

Camera Series
IR Camera

D/N ATR 700TVL Vari-Focal IR Camera

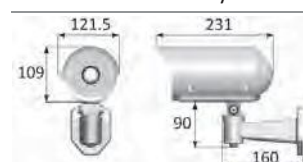


Features

- Resolution Of 700TV Lines
- Shutter (AGC)
- Auto Tracking White Balance (ATW)
- Color Rolling Suppression (ANTI CR)
- High Light Compensation(HLC)
- Picture Adjust(Pict Adjust)
- Adaptive Tone Reproduction (ATR)
- Privacy Zone
- Noise Reduction (NR)
- On Screen Display(OSD)
- Radiant Distance Up To 50M



Dimensions Body:121.5mm(W) x 109mm(H) x 231mm(D),



Bracket: 160mm(L)

(Unit:mm)

Weatherproof IR Camera										
Name		D/N ATR 700TVL Vari-Focal IR Camera								
Series Number		CMR7484X / 7488X								
Model		CMR7484X2.2N/P	CMR7484X2.5N/P	CMR7488X2.2N/P	CMR7488X2.5N/P	CMR7484X3.6N/P	CMR7484X2.4N/P	CMR7488X3.6N/P	CMR7488X2.4N/P	
Lens	Focal Length	4~9mm	8~20mm	4~9mm	8~20mm	3.3~12mm	9~22mm	3.3~12mm	9~22mm	
	Iris	F1.4								
	Angle of view	H	69°~30.7°	33°~14.5°	69°~30.7°	33°~14.5°	89.8°~23.9°	32.1°~13.1°	89.8°~23.9°	32.1°~13.1°
		V	51°~23°	25°~11°	51°~23°	25°~11°	63.6°~17.9°	23.3°~9.8°	63.6°~17.9°	23.3°~9.8°
		D	86°~38.5°	41.5°~18.2°	86°~38.5°	41.5°~18.2°	125.7°~29.9°	41.9°~16.3°	125.7°~29.9°	41.9°~16.3°
Power Input Voltage		AC24V (±10%)			AC100~240V		AC24V (±10%)		AC100~240V	
Pick Up Element		Sony 1/3" Exview HAD CCD Sensor								
Effective Pixels		976(H) x 494(V) [NTSC]								
		976(H) x 582(V) [PAL]								
Chip Size		5.58mm(H) x 4.67mm(V)								
Horizontal & Vertical Sync. Frequency		15.734 KHz / 59.94Hz [NTSC]								
Scanning System		15.625 KHz / 50Hz [PAL]								
Menu Control		2:1 Interlace								
Sync. Mode		OSD Control								
		Internal								
Infrared Cut Filter		-				Auto Selectable, Automatic Switch From Color Mode to Monochrome				
Resolution		700TV Lines				Color: 700TV Lines, Mono: 750TV Lines				
Minimum Illumination	Color	0.045Lux / F1.4				0.045Lux / F1.4				
	Mono					0.009Lux / F1.4				
	IR On					0Lux				
S/N Ratio		0Lux				More Than 50dB (AGC-OFF)				
Auto Gain Control		AUTO / MANUAL								
White Balance		ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK								
Electronic Shutter	Auto	1/60(1/50)S ~ 1/100,000S								
	Manual	1/60(1/50)S, 1/100(1/120)S, 1/250S, 1/500S, 1/1,000S, 1/2,000S, 1/4,000S, 1/10,000S								
Adaptive Tone Reproduction	Luminance	LOW / MID / HIGH								
	Contrast	LOW / MIDLOW / MID / MIDHIGH / HIGH								
Back Light Compensation		BLC / HLC(High Light Compensation) / OFF								
Noise Reduction		Y / C / Y / C / OFF								
Picture Adjust		MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN								
Privacy Masking		ON / OFF								
Privacy Masking Zone		8 Zones								
OSD Language		ENGLISH/JAPANESE/GERMANS/FRENCH/RUSSIAN/PORTUGUESE/SPANISH/SIMPLY CHINESE								
Video Output		CVBS 1.0Vp-p, 75 Ohm								
Gamma Characteristic		γ=0.45								
Power Consumption		9.5W		12W		9.5W		12W		
Operating Temperature		-10°C ~ +50°C (14°F ~ 122°F)								
IP Rating		IP66								
Window		Ø92 Heat Resistant Glass								
Infrared LED	Peak Wavelength	850nm								
	Beam Spread	30°								
	Radiant Distance	50M								
Dimension		Body:121.5mm(W) x 109mm(H) x 231mm(D), Bracket: 160mm(L)								
Weight		1500g								



CMG 176 / 178

Camera Series
Box type Camera

D/N WDR Ultrahigh Resolution Camera



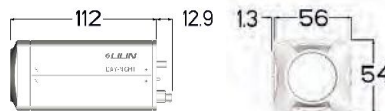
Features

- Ultrahigh resolution 600 TV Lines
- Wide dynamic range ratio 4000:1
- 3D Digital Noise Reduction
- Sens-Up(X256) / Low Luminance Light
- Day & Night (IR Cut Removable)
- Motion Detection
- EIS (Electronic Image Stabilization)
- High light Suppress Back Light Compensation
- OSD menu setup
- Up to 8 Privacy masking zones
- 10X Digital zoom
- White Balance



Dimensions 56mm x 54mm x 112mm

(Unit:mm)



Box type Camera

Box type Camera					
Name	D/N WDR Ultrahigh Resolution Camera				
Series Number	CMG 176 / 178				
Model	CMG176N		CMG178N	CMG176P	CMG178P
Power Input Voltage	DC12V±10% AC24V±10%		AC100~240V	DC12V±10% AC24V±10% AC100~240V	
Pick Up Element	Sony 1/3" Vertical Double-Density Interline CCD Sensor				
Effective Pixels	768(H) x 494(V)			752(H) x 582(V)	
Chip Size	6.00mm(H) x 5.00mm(V)				
Horizontal & Vertical Sync. Frequency	15.734KHz / 59.94Hz			15.625KHz / 50Hz	
Scanning System	2 : 1 Interlace				
Menu Control	OSD Control				
Sync. Mode	Line-Lock / Internal ; DC12V : Sync. Mode is fixed to Internal				
IR Cut Filter	Auto / Day / Night / Ext				
Resolution	Color : 600TV Lines , Mono : 700TV Lines				
Minimum Illumination	Color : 0.0002 Lux / F1.2 (Sens-Up Auto) ; Mono : 0.0001 Lux / F1.2 (Sens-Up Auto)				
S/N Ratio	More Than 50dB (AGC Off)				
Auto Gain Control	Low / Middle / High /Off				
White Balance	ATW / AWC/ Manual (Indoor/Outdoor)				
Exposure	ALC / ELC				
Electronic Shutter	1/60(1/50)S ~ 1/90,000S				
Slow Shutter	2~16Fld / 24Fld / 32Fld / 64Fld / 128Fld / 256Fld / 512Fld				
Sens-Up	Auto (X256 Max.) / Off				
WDR	Adjustable				
Wide Dynamic Range	4000 : 1				
Back Light Compensation	Adjustable				
High Light Suppress BLC	Yes				
3D Digital Noise Reduction	Low / Middle / High / Off				
Digital Zoom	On (X10 Max.) / Off				
Digital Pan/Tilt	Horizontal / Vertical Direction Can be Operated (According to the Zoom Magnification)				
Sharpness	Adjustable				
Digital Effect	V-Flip / Mirror / Rotate / Off				
Privacy Masking	On / Off				
Privacy Masking Zone	8 Zones				
Motion Detection	On / Off				
Motion Detection Zone	4 Zones				
Motion Detection Trigger	NO / NC				
Alarm Output	On / Off				
Electronic Image Stabilizer	On / Off				
Video Output	CVBS 1.0Vp-p, 75 Ohm				
Audio Output	Yes				
Lens Mount	C or CS Mount				
Auto Iris Drive	Direct Drive(DC) or Video Drive				
Gamma Characteristic	γ= 0.45				
Power Consumption	5.2W (DC12V) / 4.0W (AC24V)	5.3W	5.2W (DC12V) / 4.0W (AC24V)	5.3W	
Operating Temperature	-10°C~ +50°C(14°F~ 122°F)				
Dimension	56mm(W) x 54mm(H) x 112mm(D)				
Weight	510g				



CMG 152 / 156 / 158

Camera Series
Box type Camera

D/N Superhigh Resolution Camera



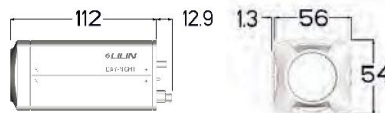
Features

- DAY&NIGHT
- SENSITIVITY
- ELECTRONIC SHUTTER
- BACK LIGHT COMPENSATION
- APERTURE CORRECTION
- ATW (Auto Tracking White balance)
- ACCEPTS DC DRIVE AUTO IRIS LENS
- AUDIO OUTPUT
- FOCAL LENGTH ADJUSTMENT RING



Dimensions 56mm(W) x 54mm(H) x 112mm(D)

(Unit:mm)



Box type Camera			
Name	D/N Superhigh Resolution Camera		
Series Number	CMG152 / 156 / 158		
Model No.	CMG152N CMG152P	CMG156N CMG156P	CMG158N CMG158P
Power Input Voltage	DC12V $\pm 10\%$	DC12V $\pm 10\%$ AC24V $\pm 10\%$	AC100 ~ 240V
Sync. Mode	Internal		
Pick Up Element	Sony 1/3" Super HAD CCD Sensor		
Effective Pixels	768(H) x 494(V) [NTSC] 752(H) x 582(V) [PAL]		
Chip Size	5.59mm(H) x 4.68mm(V)		
Horizontal & Vertical Sync. Frequency	15.734KHz / 59.94Hz [NTSC] 15.625KHz / 50Hz [PAL]		
Scanning System	2:1 Interlace		
Resolution	540 TV Lines		
Min. Illumination	0.03Lux/F1.2		
S/N Ratio	More than 50dB (AGC-OFF)		
Auto Gain Control	On / Off		
White Balance	ATW		
Aperture Correction	Horizontal , Vertical		
Power Consumption	1.7W	3.0W (DC12V) 2.5W (AC24V)	4.8W
Electronic Shutter	1/60(1/50)S ~ 1/100,000S (Auto)		
Back Light Compensation	Auto		
Video Output	CVBS1.0Vp-p, 75Ohm		
Audio Output	Yes		
Lens Mount	C or CS Mount		
Auto Iris Drive	Direct Drive (DC)		
Operating Temperature	-10°C ~ +50°C (14°F ~ 122°F)		
Gamma Characteristic	$\gamma=0.45$		
Dimension	56mm(W) x 54mm(H) x 112mm(D)		
Weight	370g	400g	



CMW 12 / 15

Camera Series
Box type Camera

Waterproof Vari-Focal Color Camera

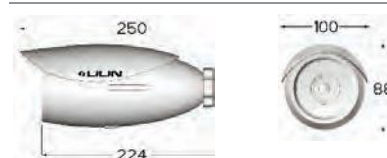


Features

- Standard Resolution (380TV Lines) / Super High Resolution (540TV Lines)
- Aluminum Housing with IP 68 Rating
- Housing and Bracket are Integrated
- Innovative External Adjustment with Waterproof for Zoom and Focus of Vari-Focal Lens
- AC24V or AC100~240V Power Supply
- Built-in 2.2X Vari-Focal Lens



Dimensions 100mm (W) x 88mm (H) x 250mm(D)



(Unit:mm)

Box type Camera

Name			Waterproof Vari-Focal Color Camera			
Series Number			CMW12/15			
Type			Standard Resolution		Super High Resolution	
Model			CMW124X2.2N	CMW128X2.2N	CMW154X2.2N	CMW158X2.2N
			CMW124X2.2P	CMW128X2.2P	CMW154X2.2P	CMW158X2.2P
Lens	Focal Length		4 ~ 9mm			
	Iris		F1.6			
	Angle of View	H	69°~ 30.7°			
		V	51°~ 23°			
		D	86°~ 38.5°			
Power Supply			AC24V ±10%	AC100V ~ 240V	AC24V ±10%	AC100V ~ 240V
Image Pick-up Device			Sony 1/3" Exview HAD CCD Sensor		Sony 1/3" Super HAD CCD Sensor	
Effective Pixels	NTSC		510(H) x 492(V)		768(H) x 494(V)	
	PAL		500(H) x 582(V)		752(H) x 582(V)	
Chip Size			6.00mm(H) x 4.96mm(V)		5.59mm(H) x 4.68mm(V)	
H/V Sync. Frequency	NTSC		15.734 KHz / 59.94Hz			
	PAL		15.625 KHz / 50Hz			
Scanning System			2:1 Interlace			
Sync. Mode			Internal			
Resolution			380 TV Lines		540 TV Lines	
Minimum Illumination			0.03 Lux / F1.6		0.07 Lux / F1.6	
S/N Ratio			More than 50dB (AGC-Off)			
Auto Gain Control			36dB Variable Gain			
White Balance			ATW			
Aperture Gain Correction			Horizontal, Vertical			
Back Light Compensation			Auto			
Video Output			CVBS 1.0Vp-p/75 Ω BNC			
Gamma Characteristic			γ=0.45			
Power Consumption			7.2W			
IP Rating			IP68			
Operating Temperature			-10°C ~ + 50°C (14°F ~122°F)			
Dimension			100mm(W) x 88mm(H) x 250mm(D)			
Weight			700g			



CMW 022

Camera Series
Box type Camera

Waterproof Color Camera



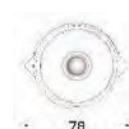
Features

- 1/3" SONY Super HAD CCD Sensor
- Standard Resolution (380 TV Lines)
- Aluminium Housing with IP68 Rating
- Indoor/Outdoor Installation
- DC12V Power Supply
- Optional 3.6mm, 4.3mm, 6.0mm Lens



Dimensions 78mm(W)x66.5mm(H)x107mm(D)

(Unit:mm)



Box type Camera

Box type Camera					
Name		Waterproof Color Camera			
Series Number		CMW022			
Type		Standard Resolution			
Model	NTSC	CMW022N6	CMW022N4.3	CMW022N3.6	
	PAL	CMW022P6	CMW022P4.3	CMW022P3.6	
Lens	Focal Length		6.0mm	4.3mm	3.6mm
	Iris		F1.8	F2.0	F2.0
	Angle of View	H	44.5°	62.4°	73°
		V	33.1°	46.8°	54.5°
		D	56°	78°	92°
Power Supply		DC12V ±10%			
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor			
Effective Pixels	NTSC	510(H) x 492(V)			
	PAL	500(H) x 582(V)			
Chip Size		5.59mm(H) x 4.68mm(V)			
H/V Sync. Frequency	NTSC	15.734 KHz / 59.94Hz			
	PAL	15.625 KHz / 50Hz			
Scanning System		2:1 Interlace			
Sync. Mode		Internal			
Resolution		380 TV Lines			
Minimum Illumination		0.2 Lux / F1.8			
S/N Ratio		More than 50dB (AGC Off)			
Auto Gain Control		36dB Variable Gain			
White Balance		ATW			
Aperture Gain Correction		Horizontal, Vertical			
Electronic Shutter		1/60(1/50)S ~ 1/100,000S (Auto)			
Back Light Compensation		Auto			
Video Output		CVBS 1.0Vp-p/75 Ω BNC			
Gamma Characteristic		γ=0.45			
Power Consumption		2.2W			
IP Rating		IP68			
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)			
Dimension		78mm(W)x66.5mm(H)x107mm(D)			
Weight		340g			



CMD 072 / 076 / 172 / 176

Camera Series
Dome Camera

WDR Ultrahigh Resolution Color Dome Camera



CMD 172
CMD 176

CMD 072
CMD 076



Features

- Ultrahigh resolution 600 TV Lines
- Wide dynamic range ratio 4000 : 1
- 3D Digital Noise Reduction
- EIS (electronic image stabilization)
- HSBLC (highlight suppress backlight compensation)
- 10X Digital zoom
- Up to 8 Privacy masking zones
- Sense-Up –equipped with a maximum X256 sens
- 3-Axis camera construction
- Screw-on design dome cover for easy and secure installation
- OSD Menu Setup

Dimensions Ø120 x 102mm



Dome Camera

Name			WDR Ultrahigh Resolution Color Dome Camera								
Series Number			CMD 072/076/172/176								
Model No.			CMD072N/P3.6		CMD076N/P3.6		CMD072N/P6		CMD072N/P6		
			CMD172N/P3.6		CMD176N/P3.6		CMD172N/P6		CMD172N/P6		
Lens	Focal Length		3.6mm				6.0mm				
	Iris		F2.0				F1.8				
	Angle of View	H	73°				44.5				
		V	54.5°				33.1				
D		92°				56					
Power Input Voltage			DC12V ±10%		DC12V ±10% AC24V ±10%		DC12V ±10%		DC12V ±10% AC24V ±10%		
Pick Up Element			Sony 1/3" Vertical Double-Density Interline CCD Sensor								
Effective Pixels			768(H) x 494(V) [NTSC] / 752(H) x 582(V) [PAL]								
Chip Size			6.00mm(H) x 5.00mm(V)								
Horizontal & Vertical Sync. Frequency			15.734KHz / 59.94Hz [NTSC] / 15.625KHz / 50Hz [PAL]								
Scanning System			2:1 Interlace								
Menu Control			OSD Control								
Sync. Mode			Internal								
Resolution			600 TV Lines								
Min. Illumination			0.0006 Lux / F1.8 (Sense-Up Auto)								
S/N Ratio			More than 50dB (AGC-OFF)								
Auto Gain Control			Low / Middle / High / Off								
White Balance			ATW / AWC / Manual (Indoor/Outdoor)								
Exposure			ALC / ELC								
Electronic Shutter			1/60(1/50)S ~ 1/90,000S								
Slow Shutter			2~16Fld / 24Fld / 32Fld / 64Fld / 128Fld / 256Fld / 512Fld								
Sense-Up			Auto (X256Max.) / Off								
WDR			Adjustable								
Wide Dynamic Range			4000 : 1								
Back Light Compensation			Adjustable								
Highlight Suppress BLC			Yes								
3D Digital Noise Reduction			Low / Middle / High / Off								
Digital Zoom			On (X10Max.) / Off								
Digital Pan/Tilt			Horizontal / Vertical Direction Can be Operated (According to the Zoom Magnification)								
Sharpness			Adjustable								
Digital Effect			V-Flip / Mirror / Rotate / Off								
Privacy Masking			On / Off								
Privacy Masking Zone			8 Zones								
Electronic Image Stabilizer			On / Off								
Video Output			CVBS1.0Vp-p, 75Ohm								
Gamma Characteristic			γ= 0.45								
Power Consumption			2.2W		3.0W (DC12V) 2.5W (AC24V)		2.2W		3.0W (DC12V) 2.5W (AC24V)		
Operating Temperature			-10°C ~ +50°C (14°F ~ 122°F)								
Dimension			φ120 x 102mm								
Weight			290g		310g		290g		310g		



CMD 072X / 076X / 172X / 176X

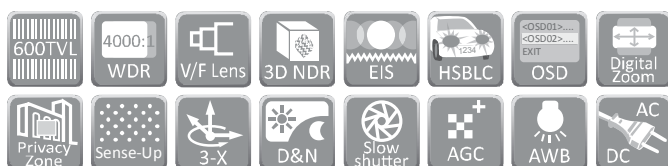
Camera Series
Dome Camera

D/N WDR Ultrahigh Resolution Vari-Focal Dome Camera



CMD 172X
CMD 176X

CMD 072X
CMD 076X



Features

- Ultrahigh resolution 600 TV Lines
- Wide dynamic range ratio 4000 : 1
- 3D Digital Noise Reduction
- EIS (electronic image stabilization)
- HSBLC (highlight suppress back light compensation)
- OSD Menu Setup
- 10X Digital zoom
- Up to 8 Privacy masking zones
- Sense-Up –equipped with a maximum X256 sens
- 3-Axis camera construction
- Screw-on design dome cover for easy and secure installation
- Day and night applications for 24Hr surveillance
- Support 4~9 mm Lens (Option)
- Built-in 4.2X Vari-Focal Lens

Dimensions Ø120 x 102mm



Dome Camera

Dome Camera			
Name		D/N WDR Ultrahigh Resolution Vari-Focal Dome Camera	
Series Number		CMD 072X / 076X / 172X / 176X	
Model		CMD072X4.2N/P	CMD076X4.2N/P
		CMD172X4.2N/P	CMD176X4.2N/P
Lens	Focal Length	2.8 ~ 12mm	
	Iris	F1.2	
	Angle of View	H	99.6° ~ 24.9°
		V	73.2° ~ 18.8°
D	128.5° ~ 31.0°		
Power Input Voltage		DC12V±10%	DC12V ±10% AC24V ±10%
Pick Up Element		Sony 1/3" Vertical Double-Density Interline CCD Sensor	
Effective Pixels		768(H) x 494(V) [NTSC] / 752(H) x 582(V) [PAL]	
Chip Size		6.00mm(H) x 5.00mm(V)	
Horizontal & Vertical Sync. Frequency		15.734KHz / 59.94Hz [NTSC] / 15.625KHz / 50Hz [PAL]	
Scanning System		2 : 1 Interlace	
Menu Control		OSD Control	
Sync. Mode		Internal	
IR Cut Filter		Auto / Day / Night	
Resolution		Color : 600TV Lines , Mono : 700TV Lines	
Minimum Illumination		Color : 0.0002Lux / F1.2 (Sens-Up Auto) / Mono : 0.0001Lux / F1.2 (Sens-Up Auto)	
S/N Ratio		More Than 50dB (AGC OFF)	
Auto Gain Control		Low / Middle / High / Off	
White Balance		ATW / AWC/ Manual (Indoor/Outdoor)	
Exposure		ALC / ELC	
Electronic Shutter		1/60(1/50)S ~ 1/90,000S	
Slow Shutter		2~16Fld / 24Fld / 32Fld / 64Fld / 128Fld / 256Fld / 512Fld	
Sens-Up		Auto (X256 Max.) / Off	
WDR		Adjustable	
Wide Dynamic Range		4000 : 1	
Back Light Compensation		Adjustable	
High Light Suppress BLC		Yes	
3D Digital Noise Reduction		Low / Middle / High / Off	
Digital Zoom		On (X10 Max.) / Off	
Digital Pan/Tilt		Horizontal / Vertical Direction Can be Operated (According to the Zoom Magnification)	
Sharpness		Adjustable	
Digital Effect		V-Flip / Mirror / Rotate / Off	
Privacy Masking		On / Off	
Privacy Masking Zone		8 Zones	
Electronic Image Stabilizer		On / Off	
Video Output		CVBS1.0Vp-p , 750hm	
Gamma Characteristic		γ= 0.45	
Power Consumption		2.8W	3.0W (DC12V) 2.5W (AC24V)
Operating Temperature		-10°C ~ +50°C (14°F ~ 122°F)	
Dimension		Φ120 x 102mm	
Weight		310g	330g



CMD 052 / 056 / 152 / 156

Camera Series
Dome Camera

Superhigh Resolution Color Dome Camera



CMD 152
CMD 156

CMD 052
CMD 056



Features

- Superhigh resolution 540 TV Lines
- Optically perfect impact and dust resistant polycarbonate dome cover
- 3-Axis camera construction
- Screw-on design dome cover for easy and secure installation
- RCA video connector for easy adjustment on site

Dimensions Ø120 x 102mm



(Unit:mm)

Dome Camera					
Name		Superhigh Resolution Color Dome Camera			
Series Number		CMD 052 / 056 / 152 / 156			
Model		CMD152N/P3.6	CMD156N/P3.6	CMD152N/P6	CMD156N/P6
		CMD052N/P3.6	CMD056N/P3.6	CMD052N/P6	CMD056N/P6
Lens	Focal Length	3.6mm		6mm	
	Iris	F2.0		F1.8	
	Angle of View	73°		44.5°	
		54.5°		33.1°	
		92°		56°	
Power Input Voltage		DC12V±10%	DC12V±10% / AC24V±10%	DC12V±10%	DC12V±10% / AC24V±10%
Sync. Mode		Internal			
Pick Up Element		Sony 1/3″ Super HAD CCD Sensor			
Effective Pixels		768(H) x 494(V) [NTSC] / 752(H) x 582(V) [PAL]			
Chip Size		5.59mm(H) x 4.68mm(V)			
Horizontal & Vertical Sync. Frequency		15.734KHz / 59.94Hz [NTSC] / 15.625KHz / 50Hz [PAL]			
Scanning System		2 : 1 Interlace			
Resolution		540TV Lines			
Minimum Illumination		0.5Lux / F1.8			
S/N Ratio		More Than 50dB (AGC OFF)			
Auto Gain Control		36dB Variable Gain			
White Balance		ATW			
Aperture Correction		Horizontal , Vertical			
Power Consumption		2.2W	3.0W (DC12V) / 2.5W (AC24V)	2.2W	3.0W (DC12V) / 2.5W (AC24V)
Electronic Shutter		1/60(1/50)S ~ 1/100,000S (Auto)			
Back Light Compensation		Auto			
Video Output		CVBS1.0Vp-p , 75Ohm			
Operating Temperature		-10°C ~ +50°C (14°F ~ 122°F)			
Gamma Characteristic		γ= 0.45			
Dimension		Φ120 x 102mm			
Weight		290g	310g	290g	310g



CMD 052X / 056X / 152X / 156X

Camera Series
Dome Camera

Superhigh Resolution Vari-Focal Dome Camera



CMD 152X
CMD 156X

CMD 052X
CMD 056X



Features

- Superhigh resolution 540 TV Lines
- Optically perfect impact and dust resistant polycarbonate dome cover
- 3-Axis camera construction
- Screw-on design dome cover for easy and secure installation
- RCA video connector for easy adjustment on site
- 4~9 mm Lens (Option)
- Built-in 4.2X Vari-Focal Lens

Dimensions Ø120 x 102mm



Dome Camera			
Name		Superhigh Resolution Vari-Focal Dome Camera	
Series Number		CMD 052X / 056X / 152X / 156X	
Model		CMD052X4.2N/P CMD152X4.2N/P	CMD056X4.2N/P CMD156X4.2N/P
Lens	Focal Length	2.8 ~ 12mm	
	Iris	F1.2	
	Angle of View	H	99.6° ~ 24.9°
		V	73.2° ~ 18.8°
		D	128.5° ~ 31.0°
Power Input Voltage		DC12V ±10%	DC12V ±10% AC24V ±10%
Sync. Mode		Internal	
Pick Up Element		Sony 1/3" Super HAD CCD Sensor	
Effective Pixels		768(H) x 494(V) [NTSC] 752(H) x 582(V) [PAL]	
Chip Size		5.59mm(H) x 4.68mm(V)	
Horizontal & Vertical Sync. Frequency		15.734KHz / 59.94Hz [NTSC] 15.625KHz / 50Hz [PAL]	
Scanning System		2:1 Interlace	
Resolution		540 TV Lines	
Min. Illumination		0.03 Lux at F1.2	
S/N Ratio		More than 50dB (AGC-OFF)	
Auto Gain Control		36dB Variable Gain	
White Balance		ATW	
Aperture Correction		Horizontal , Vertical	
Back Light Compensation		Auto	
Gamma Characteristic		γ=0.45	
Power Consumption		2.2W	3.0W (DC12V) 2.5W (AC24V)
Operating Temperature		-10°C ~ +50°C (14°F ~ 122°F)	
Dimension		φ120 x 102mm	
Weight		310g	330g



PIH 202 / 204 / 212 / 214

Camera Series
Dome Camera

Dual Voltage Color Dome Camera
Dual Voltage Varifocal Color Dome Camera



PIH 202
PIH 204

PIH 212
PIH 214



Features

- RCA Video Connector for Easy Adjustment on Site
- 3-Axis Camera Construction
- Optically Perfect Impact and Dust Resistant Polycarbonate Dome Cover
- Special Circuit to Avoid Color Rolling
- Screw-on Design Dome Cover
- AC 24V/ DC 12V Dual Voltage Input
- Built-in 4.2X Vari-Focal Lens Support 4~9 mm Lens option (PIH-212/214)

Dimensions Dome: Φ98, Base & Fix Ring: Φ120 x 55mm

(Unit:mm)



Dome Camera							
Name		Dual Voltage Color Dome Camera				Dual Voltage Varifocal Color Dome Camera	
Series Number		PIH-202/204				PIH-212/214	
Type		Standard Resolution		Super High Resolution		Standard Resolution	Super High Resolution
Model	NTSC	PIH-2026N6	PIH-2026N3.6	PIH-2046N6	PIH-2046N3.6	PIH-2126XN	PIH-2146XN
	PAL	PIH-2026P6	PIH-2026P3.6	PIH-2046P6	PIH-2046P3.6	PIH-2126XP	PIH-2146XP
Lens	Focal Length		6.0 mm	3.6 mm	6.0 mm	3.6 mm	2.8 ~ 12mm
	Iris		F1.8	F2.0	F1.8	F2.0	F1.2
	Angle of View	H	44.5°	73°	44.5°	73°	99.6° ~ 24.9°
		V	33.1°	54.5°	33.1°	54.5°	73.2° ~ 18.8°
		D	56°	92°	56°	92°	128.5° ~ 31.0°
Power Supply		DC12V ±10% or AC24V±10%					
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor					
Effective Pixels	NTSC	510 (H) x 492 (V)		768 (H) x 494 (V)		510 (H) x 492 (V)	768 (H) x 494 (V)
	PAL	500 (H) x 582 (V)		752 (H) x 582 (V)		500 (H) x 582 (V)	752 (H) x 582 (V)
Chip Size		5.59mm(H) x 4.68mm(V)					
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz					
	PAL	15.625KHz / 50Hz					
Scanning System		2:1 Interlace					
Sync. Mode		Internal					
Resolution		380TV Lines		540TV Lines		380TV Lines	540TV Lines
Minimum Illumination		0.2 Lux / F1.8		0.5 Lux / F1.8		0.01 Lux / F1.2	0.03 Lux / F1.2
S/N Ratio		More than 50dB (AGC Off)					
Auto Gain Control		36dB Variable Gain					
White Balance		ATW					
Aperture Gain Correction		Horizontal , Vertical					
Electronic Shutter		1/60 (1/50) S ~ 1/100,000S (Auto)				-	
Back Light Compensation		Auto					
Video Output		CVBS 1.0Vp-p / 75Ω BNC					
Gamma Characteristic		γ=0.45					
Power Consumption		2.5W (DV12V) , 2.0W (AC24V)				3.0W (DC12V) , 2.5W (AC24V)	
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)					
Dimension		Dome: Φ98,Base & Fix Ring:Φ120 x55 mm					
Weight		300g					



PIH 2222 / 2242 / 2226 / 2246

PIH 232X / 234X / 2342X / 2346X

Color Dome Camera

Dual Voltage Varifocal Color Dome Camera

Voltage Resistant Varifocal Camera

Vandal Resistant Varifocal Day & Night Camera



PIH 2222
PIH 2242

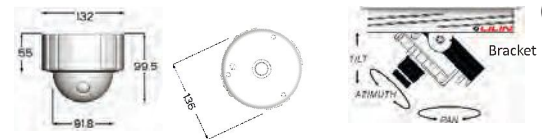
PIH 2342X
PIH 2346X



Features

- Weather & Impact Resistant Design
- Tamper-Proof Screws
- 3-Axis Camera Construction
- Special Circuit to Avoid Color Rolling
- Polycarbonate Dome Cover & Aluminum Die-Cast Housing
- RCA Video Connector for Easy Adjustment on Site
- Built-in Infrared Cut Filter and Built-in 4.2X Vari-Focal Lens (PIH-2342X/2346X)
- Built-in 4.2X and 2.4X Vari-Focal Lens Support 4~9 mm Lens option (PIH-232X/234X/2342X/2346X)

Dimensions Dome: Φ91.8, Base & Fix Ring: Φ136 x55mm (Unit:mm)



Weatherproof Dome Camera

Weatherproof Dome Camera																		
Name			Color Dome Camera				Dual Voltage Varifocal Color Dome Camera				Vandal Resistant Varifocal Camera				Vandal Resistant Varifocal Day & Night Camera			
Series Number			PIH-2222/2242				PIH-2226/2246				PIH-232X/234X				PIH-2342X/2346X			
Type			Standard Resolution		Super High Resolution		Standard Resolution		Super High Resolution		Standard Resolution		Super High Resolution		Super High Resolution			
Model	NTSC		PIH-2222N6	PIH-2222N3.6	PIH-2242N6	PIH-2242N3.6	PIH-2226N6	PIH-2226N3.6	PIH-2246N6	PIH-2246N3.6	PIH-2322XN	PIH-2326XN	PIH-2342XN	PIH-2346XN	PIH-2342XWN	PIH-2342XSN	PIH-2346XWN	PIH-2346XSN
	PAL		PIH-2222P6	PIH-2222P3.6	PIH-2242P6	PIH-2242P3.6	PIH-2226P6	PIH-2226P3.6	PIH-2246P6	PIH-2246P3.6	PIH-2322XP	PIH-2326XP	PIH-2342XP	PIH-2346XP	PIH-2342XWP	PIH-2342XSP	PIH-2346XWP	PIH-2346XSP
Focal Length			6.0 mm	3.6 mm	6.0 mm	3.6 mm	6.0 mm	3.6 mm	6.0 mm	3.6 mm	2.8~12mm				2.8~12mm	9~22 mm	2.8~12mm	9~22 mm
Lens	Iris		F1.8	F2.0	F1.8	F2.0	F1.8	F2.0	F1.8	F2.0	F1.2				F1.2	F1.4	F1.2	F1.4
	Angle of View	H	44.5°	73°	44.5°	73°	44.5°	73°	44.5°	73°	99.6° ~ 24.9°				99.6° ~ 24.9°	32.1°~ 13.1°	99.6° ~ 24.9°	32.1°~ 13.1°
		V	33.1°	54.5°	33.1°	54.5°	33.1°	54.5°	33.1°	54.5°	73.2° ~ 18.8°				73.2° ~ 18.8°	23.3°~ 9.8°	73.2° ~ 18.8°	23.3°~ 9.8°
		D	56°	92°	56°	92°	56°	92°	56°	92°	128.5° ~ 31.0°				128.5° ~ 31.0°	41.9°~ 16.3°	128.5° ~ 31.0°	41.9°~ 16.3°
Power Supply			DC12V±10%				AC24V or DC12V±10%				DC12V±10%	AC24V/DC12V±10%	DC12V±10%	AC24V/DC12V±10%	DC12V±10%		AC 24V / DC12V±10%	
Image Pick-up Device			Sony 1/3" Super HAD CCD Sensor															
Effective Pixels	NTSC		510 (H) x 492 (V)		768 (H) x 494 (V)		510 (H) x 492 (V)		768 (H) x 494 (V)		510 (H) x 492 (V)		768 (H) x 494 (V)		510 (H) x 492 (V)		768 (H) x 494 (V)	
	PAL		500 (H) x 582 (V)		752 (H) x 582 (V)		500 (H) x 582 (V)		752 (H) x 582 (V)		500 (H) x 582 (V)		752 (H) x 582 (V)		500 (H) x 582 (V)		752 (H) x 582 (V)	
Chip Size			5.99mm(H) x 4.68mm(V)															
H/V Sync.	NTSC		15.734KHz / 59.94Hz															
Frequency	PAL		15.625KHz / 50Hz															
Scanning System			2:1 Interlace															
Sync. Mode			Internal															
Infrared Cut Filter			-												Auto Selectable / Automatic Switch from Color Mode to Monochrome			
Resolution			380TV Lines		540TV Lines		380TV Lines		540TV Lines		380TV Lines		540TV Lines		540TV Lines			
Minimum Illumination			0.2 Lux / F1.8		0.5 Lux / F1.8		0.2 Lux / F1.8		0.5 Lux / F1.8		0.01 Lux / F1.2		0.03 Lux / F1.2		Color : 0.03 Lux at F1.2	Color : 0.07 Lux at F1.6	Color : 0.03 Lux at F1.2	Color : 0.07 Lux at F1.6
															Mono : 0.007 Lux at F1.2	Mono : 0.015 Lux at F1.6	Mono : 0.007 Lux at F1.2	Mono : 0.015 Lux at F1.6
S/N Ratio			More than 50dB (AGC Off)															
Auto Gain Control			36dB Variable Gain															
White Balance			ATW															
Aperture Gain Correction			Horizontal , Vertical															
Electronic Shutter			1/60(1/50)S ~ 1/100,000S (Auto)								-							
Back Light Compensation			Auto															
Video Output			CVBS 1.0Vp-p / 75Ω BNC															
Gamma Characteristic			γ=0.45															
Power Consumption			2.2 W				2.5W (DV12V) , 2.0W (AC24V)				2.2W	3W (DV12V), 2.5W (AC24V)	2.2W	3W(DV12V), 2.5W (AC24V)	2.2W (DC12V)		3.0W (DV12V) , 2.5W (AC24V)	
Vandal Proof			Withstand a blow from a 10lbs Sledgehammer															
IP Rating			IP 68															
Operating Temperature			-10℃ ~ + 50℃ (14°F ~122°F)															
Dimension			Dome: Φ91.8, Base&Fix Ring:Φ136 x 55 mm															
Weight			1200g															



PIH 242 / 244

Mini Dome Camera

Camera Series
Dome Camera

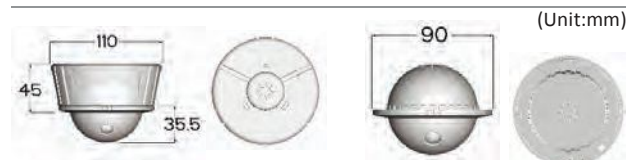


Features

- Provide Both Attached & Embedded Installation Kits
- Easy Lens Angle Adjustment
- Heat Resistant Plastic Housing
- Special Circuit to Avoid Color Rolling
- High Sensitivity Sensor, Excellent Picture Quality



Dimensions Dome: $\Phi 62.2$, Base & Fix Ring: $\Phi 110 \times 45$ mm



(Unit:mm)

Dome Camera					
Name		Mini Dome Camera			
Series Number		PIH-242/244			
Type		Standard Resolution		Super High Resolution	
Model	NTSC	PIH-2422N6	PIH-2422N3.6	PIH-2442N6	PIH-2442N3.6
	PAL	PIH-2422P6	PIH-2422P3.6	PIH-2442P6	PIH-2442P3.6
Lens	Focal Length		6.0 mm	3.6 mm	6.0 mm
	Iris		F1.8	F2.0	F1.8
	Angle of View	H	44.5°	73°	44.5°
		V	33.1°	54.5°	33.1°
		D	56°	92°	56°
Power Supply		DC12V±10%			
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor			
Effective Pixels	NTSC	510 (H) x 492 (V)		768 (H) x 494 (V)	
	PAL	500 (H) x 582 (V)		752 (H) x 582 (V)	
Chip size		5.59mm(H) x 4.68mm(V)			
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz			
	PAL	15.625KHz / 50Hz			
Scanning System		2:1 Interlace			
Sync. Mode		Internal			
Resolution		380TV Lines		540TV Lines	
Min. Illumination		0.2 Lux / F1.8		0.5 Lux / F1.8	
S/N Ratio		More than 50dB (AGC Off)			
Auto Gain Control		36dB Variable Gain			
White Balance		ATW			
Aperture Gain Correction		Horizontal , Vertical			
Electronic Shutter		1/60 (1/50) S ~ 1/100,000S (Auto)			
Back Light Compensation		Auto			
Video Output		CVBS 1.0Vp-p / 75Ω BNC			
Gamma Characteristic		γ=0.45			
Power Consumption		2.2W			
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)			
Dimension		Dome:Φ62.2,Base & Fix Ring :Φ110 x45 mm			
Weight		300g			



PIH 252 / 254

Metal Mini Dome Camera

Camera Series
Dome Camera



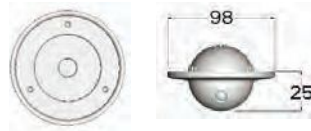
Features

- Attractive Silver-Toned Finish
- Sturdy Metal Housing for Maximum Camera Protection
- Easy Lens Angle Adjustment
- Special Circuit to Avoid Color Rolling



Dimensions Dome:Φ62.5, Holder:Φ98mm

(Unit:mm)



Dome Camera						
Name		Metal Mini Dome Camera				
Series Number		PIH-252/254				
Type		Standard Resolution		Super High Resolution		
Model	NTSC	PIH-2522N6	PIH-2522N3.6	PIH-2542N6	PIH-2542N3.6	
	PAL	PIH-2522P6	PIH-2522P3.6	PIH-2542P6	PIH-2542P3.6	
Lens	Focal Length		6.0 mm	3.6 mm	6.0 mm	3.6 mm
	Iris		F1.8	F2.0	F1.8	F2.0
	Angle of View	H	44.5°	73°	44.5°	73°
		V	33.1°	54.5°	33.1°	54.5°
		D	56°	92°	56°	92°
Power Supply		DC12V±10%				
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor				
Effective Pixels	NTSC	510 (H) x 492 (V)		768 (H) x 494 (V)		
	PAL	500 (H) x 582 (V)		752 (H) x 582 (V)		
Chip size		5.59mm(H) x 4.68mm(V)				
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz				
	PAL	15.625KHz / 50Hz				
Scanning System		2:1 Interlace				
Sync. Mode		Internal				
Resolution		380TV Lines		540TV Lines		
Min. Illumination		0.2 Lux / F1.8		0.5 Lux / F1.8		
S/N Ratio		More than 50dB (AGC Off)				
Auto Gain Control		36dB Variable Gain				
White Balance		ATW				
Aperture Gain Correction		Horizontal , Vertical				
Electronic Shutter		1/60 (1/50) S ~ 1/100,000S (Auto)				
Back Light Compensation		Auto				
Video Output		CVBS 1.0Vp-p / 75Ω BNC				
Gamma Characteristic		γ=0.45				
Power Consumption		2.2W				
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)				
Dimension		Dome:Φ62.5, Holder:Φ98				
Weight		230g				



PIH 262 / 264 / 262X / 264X

Camera Series
Dome Camera

Color Dome Camera Varifocal Dome Camera



PIH 262
PIH 264

PIH 262X
PIH 264X



Features

- Special Circuit to Avoid Color Rolling
- 3-Axis Camera Construction
- Optically Perfect Impact and Dust Resistant Polycarbonate Dome Cover
- Screw-on Design Dome Cover for Easy and Secure Installation
- RCA Video Connector for Easy Adjustment on Site
- Built-in 4.2X Vari-Focal Lens 4~9 mm Lens option (PIH-262X/264X)

Dimensions

Dome:Φ98, Base & Fix Ring :Φ112 x40.5mm

(Unit:mm)



Dome Camera							
Name		Color Dome Camera				Varifocal Dome Camera	
Series Number		PIH-262/264				PIH-262X/264X	
Type		Standard Resolution		Super High Resolution		Standard Resolution	Super High Resolution
Model	NTSC	PIH-2622N6	PIH-2622N3.6	PIH-2642N6	PIH-2642N3.6	PIH-2622XN	PIH-2642XN
	PAL	PIH-2622P6	PIH-2622P3.6	PIH-2642P6	PIH-2642P3.6	PIH-2622XP	PIH-2642XP
Lens	Focal Length		6.0 mm	3.6 mm	6.0 mm	3.6 mm	2.8 ~ 12mm
	Iris		F1.8	F2.0	F1.8	F2.0	F1.2
	Angle of View	H	44.5°	73°	44.5°	73°	99.6° ~ 24.9°
		V	33.1°	54.5°	33.1°	54.5°	73.2° ~ 18.8°
		D	56°	92°	56°	92°	128.5° ~ 31.0°
Power Supply		DC12V±10%					
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor					
Effective Pixels	NTSC	510 (H) x 492 (V)		768 (H) x 494 (V)		510 (H) x 492 (V)	768 (H) x 494 (V)
	PAL	500 (H) x 582 (V)		752 (H) x 582 (V)		500 (H) x 582 (V)	752 (H) x 582 (V)
Chip Size		5.59mm(H) x 4.68mm(V)					
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz					
	PAL	15.625KHz / 50Hz					
Scanning System		2:1 Interlace					
Sync. Mode		Internal					
Resolution		380TV Lines		540TV Lines		380TV Lines	540TV Lines
Minimum Illumination		0.2 Lux / F1.8		0.5 Lux / F1.8		0.01 Lux / F1.2	0.03 Lux / F1.2
S/N Ratio		More than 50dB (AGC Off)					
Auto Gain Control		36dB Variable Gain					
White Balance		ATW					
Aperture Gain Correction		Horizontal , Vertical					
Electronic Shutter		1/60 (1/50) S ~ 1/100,000S (Auto)				-	
Back Light Compensation		Auto					
Video Output		CVBS 1.0Vp-p / 75Ω BNC					
Gamma Characteristic		γ=0.45					
Power Consumption		2.2W					
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)					
Dimension		Dome:Φ98, Base & Fix Ring :Φ112 x40.5 mm					
Weight		250g				270g	



PIH 0012 / 0042

Camera Series
IR Camera

18M IR Camera



Features

- Adopt "Special Optical Low Pass Filter"
- High Efficiency IR LED: Radiant Distance 18M
- Automatically Activates LED: Below 10 Lux
- Aluminum Housing with IP 68 Rating
- Unique Front Glass Design Separates Lens from IR LEDs
- High Sensitivity Sensor, Excellent Picture Quality
- Optional 3.6, 4.3, & 6.0mm Lens



Dimensions 78mm (W) x 66.5mm (H) x 107mm (D)

(Unit:mm)



Weatherproof IR Camera

Name			18M IR Camera					
Series Number			PIH-0012 / 0042					
Type			Standard Resolution			Super High Resolution		
Model	NTSC		PIH-0012N6	PIH-0012N4.3	PIH-0012N3.6	PIH-0042N6	PIH-0042N4.3	PIH-0042N3.6
	PAL		PIH-0012P6	PIH-0012P4.3	PIH-0012P3.6	PIH-0042P6	PIH-0042P4.3	PIH-0042P3.6
Lens	Focal Length		6.0 mm	4.3 mm	3.6 mm	6.0 mm	4.3 mm	3.6 mm
	Iris		F1.8	F2.0		F1.8	F2.0	
	Angle of View	H	44.5°	62.4°	73°	44.5°	62.4°	73°
		V	33.1°	46.8°	54.5°	33.1°	46.8°	54.5°
		D	56°	78°	92°	56°	78°	92°
Power Supply			DC12V±10%					
Image Pick-up Device			Sony 1/3" Super HAD CCD Sensor					
Effective Pixels	NTSC		510 (H) x 492 (V)			768 (H) x 494 (V)		
	PAL		500 (H) x 582 (V)			752 (H) x 582 (V)		
Chip Size			5.59mm(H) x 4.68mm(V)					
H/V Sync. Frequency	NTSC		15.734KHz / 59.94Hz					
	PAL		15.625KHz / 50Hz					
Scanning System			2:1 Interlace					
Sync. Mode			Internal					
Resolution			380TV Lines			540TV Lines		
Minimum Illumination			0.2 Lux / F1.8 (0 Lux with IR On)			0.5 Lux / F1.8 (0 Lux with IR On)		
S/N Ratio			More than 50dB (AGC Off)					
Auto Gain Control			36dB Variable Gain					
White Balance			ATW					
Aperture Gain Correction			Horizontal , Vertical					
Electronic Shutter			1/60S(1/50)S~ 1/100,000S (Auto)					
Back Light Compensation			Auto					
Video Output			CVBS 1.0Vp-p/75Ω BNC					
Gamma Characteristic			γ=0.45					
Power Consumption			4.8W					
Window			Φ59 Heat Resistant Glass					
Infrared LED	Peak Wavelength		850nm					
	Radiant Distance		18M					
	Beam Spread		30°					
IP Rating			IP 68					
Operating Temperature			-10℃ ~ + 50℃(14°F ~122°F)					
Dimension			78mm (W) x 66.5mm (H) x 107mm (D)					
Weight			330g					



PIH 012 / 014

Camera Series
IR Camera

Ultrahigh Sensitivity 40M IR Camera

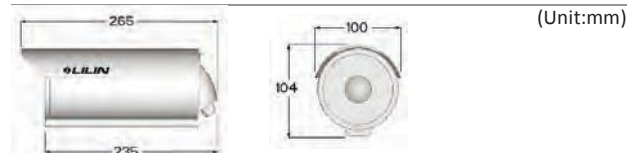


Features

- High Efficiency Jack IR LED with 0.25W Output Power : Radiant Distance 40M
- Indoor / Outdoor applications
- Adopts "Special Optical Low Pass Filter"
- Aluminum PCB for fast heat dissipation
- Automatically activates LED, when light drops below 10 Lux
- Aluminum housing with IP66 rating
- Unique Front Glass Design Separates Lens from IR LEDs
- Choice of 6, 8, 12 and 16mm lenses
- Optional Heater: On < 15°C (59°F) / Off > 25°C (77°F)
- Operating Temp: -30°C ~+ 50°C (-22°F ~+122°F)



Dimensions Φ100 x 235 mm



(Unit:mm)

Weatherproof IR Camera

Name			Ultrahigh Sensitivity 40M IR Camera											
Series Number			PIH- 012/014											
Type			Standard Resolution						Super High Resolution					
Model	NTSC		PIH-0124N6	PIH-0128N6	PIH-0124N8	PIH-0128N8	PIH-0128N12	PIH-0128N16	PIH-0144N6	PIH-0148N6	PIH-0144N8	PIH-0148N8	PIH-0148N12	PIH-0148N16
	PAL		PIH-0124P6	PIH-0128P6	PIH-0124P8	PIH-0128P8	PIH-0128P12	PIH-0128P16	PIH-0144P6	PIH-0148P6	PIH-0144P8	PIH-0148P8	PIH-0148P12	PIH-0148P16
Lens	Focal Length		6.0 mm		8.0 mm		12.0 mm	16.0 mm	6.0 mm		8.0 mm		12.0 mm	16.0 mm
	Iris		F1.8		F2.0		F2.0	F2.0	F1.8		F2.0		F2.0	F2.0
	Angle of View	H	44.5°		32°		22.4°	16°	44.5°		32°		22.4°	16°
		V	33.1°		24°		16.8°	12°	33.1°		24°		16.8°	12°
	D	56°		40°		28°	20°	56°		40°		28°	20°	
Power Supply			AC24V±10%	AC 90V~260V	AC24V±10%	AC 90V ~260V max.			AC24V±10%	AC 90V~260V	AC24V±10%	AC 90V ~260V max.		
Image Pick-up Device			Sony 1/3" Super HAD CCD Sensor											
Effective Pixels	NTSC		510 (H) x 492 (V)						768 (H) x 494 (V)					
	PAL		500 (H) x 582 (V)						752 (H) x 582 (V)					
Chip Size			5.59mm(H) x 4.68mm(V)											
H/V Sync. Frequency	NTSC		15.734KHz / 59.94Hz											
	PAL		15.625KHz / 50Hz											
Scanning System			2:1 Interlace											
Sync. Mode			Internal											
Resolution			380TV Lines						540TV Lines					
Minimum Illumination			0.01 Lux / F1.8(0 Lux With IR On)						0.05 Lux / F1.8(0 Lux With IR On)					
S/N Ratio			More than 50dB (AGC Off)											
Auto Gain Control			36dB Variable Gain											
White Balance			ATW											
Aperture Gain Correction			Horizontal , Vertical											
Electronic Shutter			1/60(1/50)S ~ 1/100,000S (Auto)											
Back Light Compensation			Auto											
Video Output			CVBS 1.0Vp-p/75Ω BNC											
Gamma Characteristic			γ=0.45											
Power Consumption			10W											
Window			Φ88 Heat Resistant Glass											
Infrared LED	Peak Wavelength		850nm											
	Radiant Distance		25M	30M		35M	40M	25M		30M		35M	40M	
	Beam Spread		20°											
IP Rating			IP 66											
Operating Temperature			-10°C ~ + 50°C (14°F ~122°F)											
Dimension			Φ100 x 235 mm											
Weight			1500g											



PIH 036X / 038X

Camera Series
IR Camera

Varifocal IR Camera



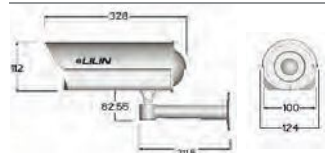
Features

- Radiant Distance Up to 60M
- Cable Managed Housing and Bracket
- High Sensitivity CCD Sensor
- High Quality ED Glass Lenses
- Perfect Solution for Day / Night Applications
- IP66 Weather Rating
- Automatically Activates LED: Below 10 Lux
- Choice of Resolutions and Lenses
- High Quality Optical Glass Construction
- Unique Front Glass Design Separates Lens from IR LEDs
- Built-in 3.6X and 2.4X Vari-Focal Lens



Dimensions Body: 120mm(W) x 112mm(H) x 328mm(D)

Bracket: 211.5mm (L)
(Unit:mm)



Weatherproof IR Camera

Name			Varifocal IR Camera							
Series Number			PIH-036X/038X							
Type			Standard Resolution				Super High Resolution			
Model	NTSC		PIH-0364XWN	PIH-0364XSN	PIH-0368XWN	PIH-0368XSN	PIH-0384XWN	PIH-0384XSN	PIH-0388XWN	PIH-0388XSN
	PAL		PIH-0364XWP	PIH-0364XSP	PIH-0368XWP	PIH-0368XSP	PIH-0384XWP	PIH-0384XSP	PIH-0388XWP	PIH-0388XSP
Lens	Focal Length		3.3~12 mm	9~22 mm	3.3~12 mm	9~22 mm	3.3~12 mm	9~22 mm	3.3~12 mm	9~22 mm
	Iris		F1.4							
	Angle of View	H	89.8°~ 23.9°	32.1°~ 13.1°	89.8°~ 23.9°	32.1°~ 13.1°	89.8°~ 23.9°	32.1°~ 13.1°	89.8°~ 23.9°	32.1°~ 13.1°
		V	63.6°~ 17.9°	23.3°~ 9.8°	63.6°~ 17.9°	23.3°~ 9.8°	63.6°~ 17.9°	23.3°~ 9.8°	63.6°~ 17.9°	23.3°~ 9.8°
	D	125.7°~ 29.9°	41.9°~ 16.3°	125.7°~ 29.9°	41.9°~ 16.3°	125.7°~ 29.9°	41.9°~ 16.3°	125.7°~ 29.9°	41.9°~ 16.3°	
Power Supply			AC24V±10%		AC 90V ~ 260V max.		AC24V±10%		AC 90V ~ 260V max.	
Image Pick-up Device			Sony 1/3” Exview HAD CCD Sensor				Sony 1/3” Super HAD CCD Sensor			
Effective Pixels	NTSC		510 (H) x 492 (V)				768 (H) x 494 (V)			
	PAL		500 (H) x 582 (V)				752 (H) x 582 (V)			
Chip Size			6.00mm(H) x 4.96mm(V)				5.59mm(H) x 4.68mm(V)			
H/V Sync. Frequency	NTSC		15.734KHz / 59.94Hz							
	PAL		15.625KHz / 50Hz							
Scanning System			2:1 Interlace							
Sync. Mode			Internal							
Infrared Cut Filter			Auto Selectable / Automatic Switch from Color Mode to Monochrome							
Resolution			380TV Lines				540TV Lines			
Minimum Illumination			Color: 0.02 Lux(F1.4) , 0 Lux With IR On Mono: 0.005 Lux (F1.4)				Color: 0.05 Lux(F1.4) , 0 Lux With IR On Mono: 0.01 Lux (F1.4)			
S/N Ratio			More than 50dB (AGC Off)							
Auto Gain Control			36dB Variable Gain							
White Balance			ATW							
Aperture Gain Correction			Horizontal , Vertical							
Electronic Shutter			1/60(1/50)S~1/100,000S (Auto or Off)							
Back Light Compensation			Auto							
Video Output			CVBS 1.0Vp-p/75Ω BNC							
Gamma Characteristic			γ=0.45							
Power Consumption			14W							
Window			Φ78 Heat Resistant Glass							
Infrared LED	Peak Wavelength		850nm							
	Radiant Distance		50M	60M	50M	60M	50M	60M	50M	60M
	Beam Spread		30°							
Power Consumption			IP 66							
Operating Temperature			-10℃ ~ + 50℃ (14°F ~122°F)							
Dimension			Body: 120mm(W) x 112mm(H) x 328mm(D) / Bracket:211.5mm (L)							
Weight			2000g							



PIH 042 / 044

Camera Series
IR Camera

Mini Dome IR Camera



Features

- Avoid IR Reflection to Provide Perfect Video
- Adopt "Special Optical Low Pass filter"
- High Efficiency IR LED: Radiant Distance 16M
- Automatically Activates LED: Below 10 Lux
- High Sensitivity Sensor, Excellent Picture Quality
- Optional 3.6, 4.3, 6.0, & 8.0mm Lens



Dimensions $\Phi 93 \times 74$ mm

(Unit:mm)



IR Camera						
Name		Mini Dome IR Camera				
Series Number		PIH-042/044				
Type		Standard Resolution		Super High Resolution		
Model	NTSC	PIH-0422N6	PIH-0422N3.6	PIH-0442N6	PIH-0442N4.3	
	PAL	PIH-0422P6	PIH-0422P3.6	PIH-0442P6	PIH-0442P4.3	
Lens	Focal Length		6.0 mm	3.6 mm	6.0 mm	4.3 mm
	Iris		F1.4	F2.0	F1.8	F2.0
	Angle of View	H	44.5°	73°	44.5°	62.4°
		V	33.1°	54.5°	33.1°	46.8°
		D	56°	92°	56°	78°
Power Supply		DC12V±10%				
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor				
Effective Pixels	NTSC	510 (H) x 492 (V)		768 (H) x 494 (V)		
	PAL	500 (H) x 582 (V)		752 (H) x 582 (V)		
Chip size		5.59mm(H) x 4.68mm(V)				
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz				
	PAL	15.625KHz / 50Hz				
Scanning System		2:1 Interlace				
Sync. Mode		Internal				
Resolution		380TV Lines		540TV Lines		
Min. Illumination		0.2 Lux / F1.8 (0 Lux With IR On)		0.5 Lux / F1.8 (0 Lux With IR On)		
S/N Ratio		More than 50dB (AGC Off)				
Auto Gain Control		36dB Variable Gain				
White Balance		ATW				
Aperture Gain Correction		Horizontal , Vertical				
Electronic Shutter		1/60(1/50)S ~ 1/100,000S (Auto)				
Back Light Compensation		Auto				
Video Output		CVBS 1.0Vp-p / 75Ω BNC				
Gamma Characteristic		γ=0.45				
Power Consumption		3W				
Infrared LED	Peak Wavelength	850nm				
	Beam Spread	30°				
	Radiant Distance	16M				
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)				
Dimension		Φ93 x 74 mm				
Weight		230g				



PIH 052 / 054

Camera Series

IR Camera

21M IR Camera

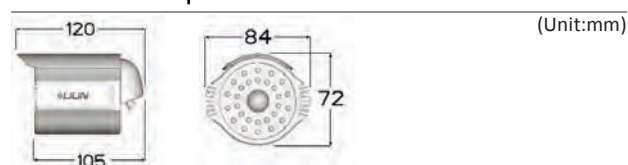


Features

- Indoor/Outdoor installations.
- Adopts "special OLPF" no focus shift.
- High efficiency infrared LED, radiant distance - 21M.
- Sensor auto activate infrared LED under 10 Lux light level.
- Monochrome image at night, no color noise.
- Aluminum housing case with IP68 rating.
- High sensitivity sensor(Standard resolution and High resolution),
- excellent picture quality.
- Choices of 3.6mm or 6.0mm or 8.0mm lens.



Dimensions $\phi 84 \times 105\text{mm}$



(Unit:mm)

Weatherproof IR Camera

Name			21M IR Camera					
Series Number			PIH-052/054					
Model No.			PIH-0522N3.6	PIH-0522N6	PIH-0522N8	PIH-0542P3.6	PIH-0542P6	PIH-0542P8
Lens	Focal Length		3.6mm	6.0mm	8.0mm	3.6mm	6.0mm	8.0mm
	Iris		F2.0	F1.8	F2.0	F2.0	F1.8	F2.0
	Angle of View	H	73°	44.5°	32°	73°	44.5°	32°
		V	54.5°	33.1°	24°	54.5°	33.1°	24°
D		92°	56°	40°	92°	56°	40°	
Power Input Voltage			DC12V±10%					
Sync. Mode			Internal					
Pick Up Element			Sony 1/3" Super HAD CCD Sensor					
Effective Pixels			510(H) x 492(V) [NTSC] 500(H) x 582(V) [PAL]			768(H) x 494(V) [NTSC] 752(H) x 582(V) [PAL]		
Chip Size			5.59mm(H) x 4.68mm(V)					
Horizontal & Vertical Sync. Frequency			15.734KHz / 59.94Hz [NTSC] 15.625KHz / 50Hz [PAL]					
Scanning System			2 : 1 Interlace					
Resolution			380TV Lines			540TV Lines		
Minimum Illumination			0.2 Lux (F1.8) 0 Lux (IR ON)			0.5 Lux (F1.8) 0 Lux (IR ON)		
S/N Ratio			More Than 50dB (AGC OFF)					
Auto Gain Control			36dB Variable Gain					
White Balance			ATW					
Aperture Correction			Horizontal , Vertical					
Power Consumption			4.8W					
Electronic Shutter			1/60(1/50) ~ 100,000sec. (Auto)					
Back Light Compensation			Auto					
Video Output			CVBS 1.0Vp-p , 75ohm					
Gamma Characteristic			= 0.45					
IP Rating			IP68					
Infrared LED	Peak Wavelength		850nm					
	Beam Spread		30°					
	Radiant Distance		21M					
Operating Temperature			-10°C ~ +50° (14 F° ~ 122 F°)					
Dimension			φ84 x 105mm					
Weight			500g					



PIH 062 / 064

Camera Series
IR Camera

30M IR Camera

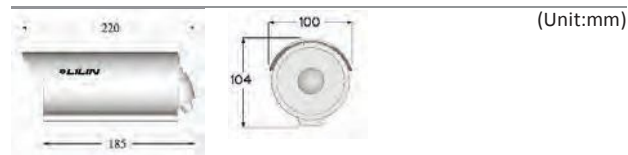


Features

- High Efficiency IR LED; Radiant Distance 30M
- Outdoor Application
- Adopts "Special Optical Low Pass Filter", No Focus Shift
- Monochrome Image at Night, No Color Noise
- Automatically Activates LED: Below 10 Lux.
- Aluminum Housing with IP 66 Rating
- Optional 4.3, 6.0, 8.0, 12.0 & 16.0mm lens



Dimensions $\Phi 100 \times 185$ mm



Weatherproof IR Camera										
Name		30M IR Camera								
Series Number		PIH-062/064								
Type		Standard Resolution				Super High Resolution				
Model	NTSC	PIH-0624N8	PIH-0628N8	PIH-0624N6	PIH-0628N6	PIH-0644N8	PIH-0648N8	PIH-0644N6	PIH-0648N6	
	PAL	PIH-0624P8	PIH-0628P8	PIH-0624P6	PIH-0628P6	PIH-0644P8	PIH-0648P8	PIH-0644P6	PIH-0648P6	
Lens	Focal Length		8.0 mm		6.0 mm		8.0 mm		6.0 mm	
	Iris		F2.0		F1.8		F2.0		F1.8	
	Angle of View	H	32°		44.5°		32°		44.5°	
		V	24°		33.1°		24°		33.1°	
		D	40°		56°		40°		56°	
Power Supply		AC24V± 10%	AC 90V~ 260Vmax.	AC24V±10%	AC 90V~ 260Vmax.	AC24V±10%	AC 90V~ 260Vmax.	AC24V±10%	AC 90V~ 260Vmax.	
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor								
Effective Pixels	NTSC	510 (H) x 492 (V)				768 (H) x 494 (V)				
	PAL	500 (H) x 582 (V)				752 (H) x 582 (V)				
Chip Size		5.59mm(H) x 4.68mm(V)								
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz								
	PAL	15.625KHz / 50Hz								
Scanning System		2:1 Interlace								
Sync. Mode		Internal								
Resolution		380TV Lines				540TV Lines				
Minimum Illumination		0.01 Lux / F1.8 (0 Lux With IR On)				0.05 Lux / F1.8 (0 Lux With IR On)				
S/N Ratio		More than 50dB (AGC Off)								
Auto Gain Control		36dB Variable Gain								
White Balance		ATW								
Aperture Gain Correction		Horizontal , Vertical								
Electronic Shutter		1/60(1/50)S ~ 1/100,000S (Auto)								
Back Light Compensation		Auto								
Video Output		CVBS 1.0Vp-p/75Ω BNC								
Gamma Characteristic		γ=0.45								
Power Consumption		10W								
Window		Φ88Heat Resistant Glass								
Infrared LED	Peak Wavelength	850nm								
	Radiant Distance	30M								
	Beam Spread	30°								
IP Rating		IP 66								
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)								
Dimension		Φ100 x 185 mm								
Weight		1180g								



PIH 0742X / 0746X

Camera Series
IR Camera

D/N Vandal Resistant Vari-Focal IR Dome Camera



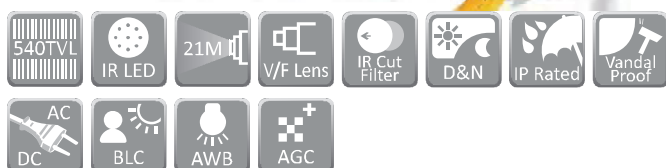
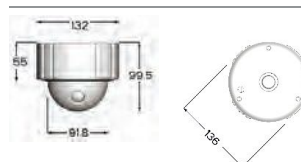
Features

- Radiant Distance Up to 21M
- Aspherical Varifocal Lens
- High Quality ED Glass Lens
- IP 68 Rating
- Impact Resistant Polycarbonate Dome Cover
- Tamper Proof Screws
- Test Monitor Connection Inside
- Choice of Lenses
- Automatically Activates LED: Below 10 Lux
- Built-in 4.2X and 2.4X Vari-Focal Lens

Dimensions

Dome:Φ91.8, Base & Fix Ring:Φ136 x 55 mm

(Unit:mm)



Weatherproof & Vandal Proof IR Camera

Name			D/N Vandal Resistant Vari-Focal IR Dome Camera			
Series Number			PIH-0742X/0746X			
Type			Super High Resolution			
Model	NTSC		PIH-0742XWN	PIH-0742XSN	PIH-0746XWN	PIH-0746XSN
	PAL		PIH-0742XWP	PIH-0742XSP	PIH-0746XWP	PIH-0746XSP
Lens	Focal Length		2.8~12mm	9~22 mm	2.8~12mm	9~22 mm
	Iris		F1.2	F1.6	F1.2	F1.6
	Angle of View	H	99.6° ~ 24.9°	32.1° ~ 13.1°	99.6° ~ 24.9°	32.1° ~ 13.1°
		V	73.2° ~ 18.8°	23.3° ~ 9.8°	73.2° ~ 18.8°	23.3° ~ 9.8°
		D	128.5° ~ 31.0°	41.9° ~ 16.3°	128.5° ~ 31.0°	41.9° ~ 16.3°
Power Supply			DC12V±10%		DC12V(10%) or AC24V(10%)	
Image Pick-up Device			Sony 1/3" Super HAD CCD Sensor			
Effective Pixels	NTSC		768 (H) x 494 (V)			
	PAL		752 (H) x 582 (V)			
Chip size			5.59mm(H) x 4.68mm(V)			
H/V Sync.	NTSC		15.734KHz / 59.94Hz			
Frequency	PAL		15.625KHz / 50Hz			
Scanning System			2:1 Interlace			
Sync. Mode			Internal			
Infrared Cut Filter			Auto Selectable Automatic Switch From Color Mode To Monochrome			
Resolution			Color: 540TV Lines, Mono: 600TV Lines			
Min. Illumination	Color	0.03Lux(F1.2)	0.07Lux(F1.6)	0.03Lux(F1.2)	0.07Lux(F1.6)	
	Mono	0.007Lux(F1.2)	0.015Lux(F1.6)	0.007Lux(F1.2)	0.015Lux(F1.6)	
	IR On	0Lux				
S/N Ratio			More than 50dB (AGC Off)			
Auto Gain Control			36dB Variable Gain			
White Balance			ATW			
Aperture Gain Correction			Horizontal , Vertical			
Back Light Compensation			Auto			
Video Output			CVBS 1.0Vp-p/75Ω BNC			
Gamma Characteristic			γ=0.45			
Power Consumption			4.3W		6.2W(DV12V) , 4.5W(AV24V)	
Vandal Proof			Withstand a blow from a 10lbs Sledgehammer			
IP Rating			IP 68			
Infrared LED	Peak Wavelength		850 nm			
	Beam Spread		30°			
	Radiant Distance		21M			
Operating Temperature			-10°C ~ + 50°C (14°F ~122°F)			
Dimension			Dome:Φ91.8 & Base:Φ136 x 55 mm			
Weight			1200g			



CMR 12 / 15

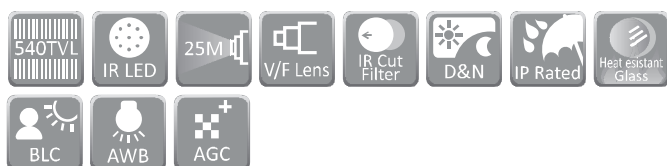
Camera Series
IR Camera

D/N Standard Resolution Vari-Focal IR Camera



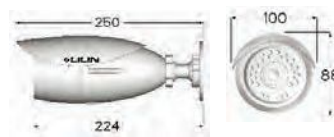
Features

- Standard Resolution (380 TV Lines) / Super High Resolution (540 TV Lines)
- High Efficiency IR LED ($\Phi 5 \times 28$ Pcs) ; Radiant Distance 25M
- Aluminum Housing with IP 68 Rating
- Housing and Bracket are Integrated
- Innovative External Adjustment with Waterproof for Zoom and Focus of Vari-Focal Lens
- With ICR & IR LED
- Built-in 3.6X Megapixel Vari-Focal Lens



Dimensions 100mm(W) x 88mm(H) x 250mm(D)

(Unit:mm)



Weatherproof IR Camera									
Name		D/N Vari-Focal IR Camera							
Series Number		CMR12/15							
Type		Standard Resolution				Super High Resolution			
Model	NTSC	CMR124X3.6N	CMR128X3.6N	CMR124X2.2N	CMR128X2.2N	CMR154X3.6N	CMR158X3.6N	CMR154X2.2N	CMR158X2.2N
	PAL	CMR124X3.6P	CMR128X3.6P	CMR124X2.2P	CMR128X2.2P	CMR154X3.6P	CMR158X3.6P	CMR154X2.2P	CMR158X2.2P
Lens	Focal Length	3.3 ~ 12mm		4 ~ 9mm		3.3 ~ 12mm		4 ~ 9mm	
	Iris	F1.4		F1.6		F1.4		F1.6	
	Angle of View	89.8°~ 23.9°		69°~ 30.7°		89.8°~ 23.9°		69°~ 30.7°	
		63.6°~ 17.9°		51°~ 23°		63.6°~ 17.9°		51°~ 23°	
Power Supply		125.7°~ 29.9°		86°~ 38.5°		125.7°~ 29.9°		86°~ 38.5°	
Image Pick-up Device		AC24V±10% AC100V~240V AC24V±10% AC100V~240V				AC24V±10% AC100V~240V AC24V±10% AC100V~240V			
Effective Pixels		Sony 1/3" Exview HAD CCD Sensor				Sony 1/3" Super HAD CCD Sensor			
Chip Size	NTSC	510(H) x 492(V)				768(H) x 494(V)			
	PAL	500(H) x 582(V)				752(H) x 582(V)			
H/V Sync. Frequency		6.00mm(H) x 4.96mm(V)				5.59mm(H) x 4.68mm(V)			
Scanning System		2:1 Interlace							
Infrared Cut Filter		Auto Selectable, Automatic SwitchFrom Color Mode To Monochrome		-		Auto Selectable, Automatic SwitchFrom Color Mode To Monochrome		-	
Resolution		Color: 380 TV Lines , Mono: 450 TV Lines				Color: 540 TV Lines , Mono: 600 TV Lines			
Min. Illumination		Color: 0.02 Lux / F1.4		Color: 0.03 Lux / F1.6		Color: 0.05 Lux / F1.4		Color: 0.07 Lux / F1.6	
		Mono: 0.005 Lux / F1.4		Mono: 0.007 Lux / F1.6		Mono: 0.01 Lux / F1.4		Mono: 0.015 Lux / F1.6	
S/N Ratio		0 Lux With IR On							
Auto Gain Control		More than 50dB (AGC-Off)							
White Balance		36dB Variable Gain							
Aperture Gain Correction		ATW							
Electronic Shutter		Horizontal, Vertical							
Back Light Compensation		1/60(1/50) ~ 100,000sec. (Auto of Off)		1/60(1/50) ~ 100,000sec. (Auto)		1/60(1/50) ~ 100,000sec. (Auto of Off)		1/60(1/50) ~ 100,000sec. (Auto)	
Video Output		Auto							
Gamma Characteristic		CVBS 1.0Vp-p/75Ω							
Power Consumption		γ=0.45							
Infrared LED	Peak Wavelength	7.2W							
	Beam Spread	850nm							
	Radiant Distance	30°							
Window		25M							
IP Rating		Φ61 Heat Resistant Glass							
Operating Temperature		IP68							
Dimension		-10°C ~ + 50°C (14°F ~122°F)							
Weight		100mm(W) x 88mm(H) x 250mm(D)							
		700g							



CMR 22/ 25

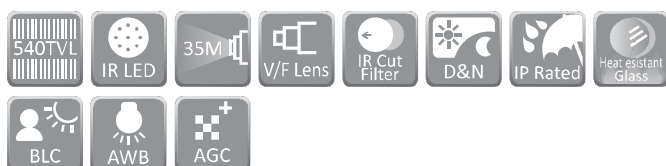
Camera Series
IR Camera

D/N Vari-Focal IR Camera



Features

- Standard Resolution (380 TV Lines) / Super High Resolution (540 TV Lines)
- High Efficiency IR LED ($\Phi 5^*32\text{Pcs} + \Phi 8^*10\text{Pcs}$) ; Radiant Distance 35M
- Aluminum Housing with IP 68 Rating
- Housing and Bracket are Integrated
- Innovatory External Adjustment with Waterproof for Zoom and Focus of Vari-Focal Lens
- With ICR & IR LED
- Built-in 3.6X Megapixel Vari-Focal Lens



Dimensiones 118mm(W) x 103mm(H) x 250mm(D)

(Unit:mm)



Weatherproof IR Camera

Name			D/N Vari-Focal IR Camera							
Series Number			CMR22/25							
Type			Standard Resolution				Super High Resolution			
Model	NTSC		CMR224X3.6N	CMR228X3.6N	CMR224X2.2N	CMR228X2.2N	CMR254X3.6N	CMR258X3.6N	CMR254X2.2N	CMR258X2.2N
	PAL		CMR224X3.6P	CMR228X3.6P	CMR224X2.2P	CMR228X2.2P	CMR254X3.6P	CMR258X3.6P	CMR254X2.2P	CMR258X2.2P
Lens	Focal Length		3.3 ~ 12mm		4 ~ 9mm		3.3 ~ 12mm		4 ~ 9mm	
	Iris		F1.4		F1.6		F1.4		F1.6	
	Angle of View	H	89.8°~ 23.9°		69°~ 30.7°		89.8°~ 23.9°		69°~ 30.7°	
		V	63.6°~ 17.9°		51°~ 23°		63.6°~ 17.9°		51°~ 23°	
	D	125.7°~ 29.9°		86°~ 38.5°		125.7°~ 29.9°		86°~ 38.5°		
Power Supply			AC24V ±10%	AC100V ~240V	AC24V ±10%	AC100V ~240V	AC24V ±10%	AC100V ~240V	AC24V ±10%	AC100V ~240V
Image Pick-up Device			Sony 1/3" Exview HAD CCD Sensor				Sony 1/3" Super HAD CCD Sensor			
Effective Pixels	NTSC		510(H) x 492(V)				768(H) x 494(V)			
	PAL		500(H) x 582(V)				752(H) x 582(V)			
Chip Size			6.00mm(H) x 4.96mm(V)				5.59mm(H) x 4.68mm(V)			
H/V Sync.	NTSC		15.734 KHz / 59.94Hz							
Frequency	PAL		15.625 KHz / 50Hz							
Scanning System			2:1 Interlace							
Infrared Cut Filter			Auto Selectable, Automatic Switch From Color Mode To Monochrome		-		Auto Selectable, Automatic Switch From Color Mode To Monochrome		-	
Resolution			Color: 380 TV Lines , Mono: 450 TV Lines				Color: 540 TV Lines , Mono: 600 TV Lines			
Min. Illumination			Color: 0.02 Lux / F1.4		Color: 0.03 Lux / F1.6		Color: 0.05 Lux / F1.4		Color: 0.07 Lux / F1.6	
			Mono: 0.005 Lux / F1.4		Mono: 0.007 Lux / F1.6		Mono: 0.01 Lux / F1.4		Mono: 0.015 Lux / F1.6	
			0 Lux With IR ON							
S/N Ratio			More than 50dB (AGC-OFF)							
Auto Gain Control			36dB Variable Gain							
White Balance			ATW							
Aperture Gain Correction			Horizontal, Vertical							
Electronic Shutter			1/60(1/50) ~ 100,000sec. (Auto of Off)		1/60(1/50) ~ 100,000sec. (Auto)		1/60(1/50) ~ 100,000sec. (Auto of Off)		1/60(1/50) ~ 100,000sec. (Auto)	
Back Light Compensation			Auto							
Video Output			CVBS 1.0Vp-p/75Ω							
Gamma Characteristic			γ=0.45							
Power Consumption			7.2W							
Infrared LED	Peak Wavelength		850nm							
	Beam Spread		30°							
	Radiant Distance		35M							
Window			Φ79 Heat Resistant Glass							
IP Rating			IP68							
Operating Temperature			-10°C ~ + 50°C (14°F ~122°F)							
Dimension			118mm(W) x 103mm(H) x 250mm(D)							
Weight			730g							



CMR 352X / 356X

Camera Series
IR Camera

D/N Vandal Resistant Superhigh RES.
Vari-Focal IR Dome Camera

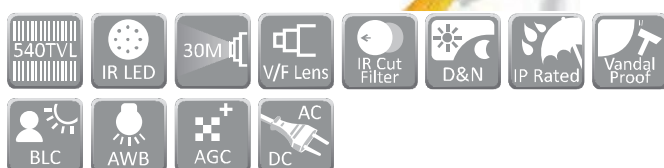
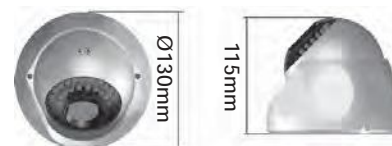


Features

- High Efficiency IR LED(Ø5*35Pcs); Radiant Distance 30M
- Aluminum Housing with IP66 Rating
- Housing and Bottom Chassis are Integrated
- Innovative External Adjustment with Waterproof for Zoom and Focus of Vari-Focal Lens
- Impact Resistant Polycarbonate Transparent Mask
- Infrared Cut Filter Mechanism, Auto Color & Mono Switching
- Automatically Activates IR LED: Below 10Lux
- Built-in 3.6X Megapixel Vari-Focal Lens

Dimensions Ø130 x 115mm

(Unit:mm)



Weatherproof IR Camera			
Name		D/N Vandal Resistant Superhigh RES. Vari-Focal IR Dome Camera	
Series Number		CMR352 / 356	
Model		CMR352X3.6N/P	CMR356X3.6N/P
Lens	Focal Length		3.3 ~ 12mm
	Iris		F1.4
	Angle of view	H	89.8° ~ 23.9°
		V	63.6° ~ 17.9°
D		125.7° ~ 29.9°	
Power Input Voltage		DC12V ±10%	DC12V ±10% / AC24V ±10%
Sync. Mode		Internal	
Pick Up Element		Sony 1/3" Super HAD CCD Sensor	
Effective Pixels		768(H) x 494(V) [NTSC] / 752(H) x 582(V) [PAL]	
Chip Size		5.59mm(H) x 4.68mm(V)	
Horizontal & Vertical Sync. Frequency		15.734 KHz / 59.94Hz [NTSC] / 15.625 KHz / 50Hz [PAL]	
Scanning System		2 : 1 Interlace	
Infrared Cut Filter		Auto Selectable, Automatic Switch From Color Mode to Monochrome	
Resolution		Color: 540 TV Lines, Mono: 600TV Lines	
Minimum Illumination		Color: 0.05Lux/F1.4 , Mono: 0.01Lux/F1.4, 0Lux (IR ON)	
S/N Ratio		More Than 50dB (AGC OFF)	
Auto Gain Control		36dB Variable Gain	
White Balance		ATW	
Aperture Correction		Horizontal, Vertical	
Power Consumption		6.8W	7.3W (DC12V) / 5.8W (AC24V)
Electronic Shutter		1/60(1/50)S ~ 1/100,000S (AUTO or OFF)	
Back Light Compensation		Auto	
Video Output		CVBS 1.0Vp-p , 75Ohm	
Operating Temperature		-10° C ~ +50° C (14° F ~ 122° F)	
Gamma Characteristic		γ=0.45	
IP Rating		IP66	
Vandal Proof		With stand a blow from a 10 lbs sledgehammer	
Infrared LED	Peak Wavelength		850nm
	Beam Spread		3 0°
	Radiant Distance		30M
Dimension		Ø130 x 115mm	
Weight		880g	900g



CMR 752X

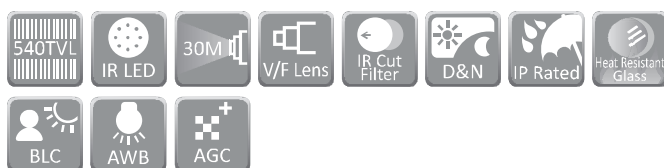
Camera Series
IR Camera

D/N SUPERHIGH RES. VARI-FOCAL IR CAMERA

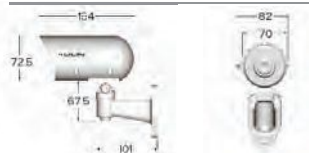


Features

- Radiant Distance Up to 30M
- Cable Managed Housing and Bracket
- High Sensitivity CCD Sensor
- Perfect Solution for Day / Night Applications
- IP66 Weather Rating
- Automatically Activates LED: Below 10 Lux
- High Quality Optical Glass Construction
- Unique Front Glass Design Separates Lens from IR LEDs
- Built-in 3.6X Megapixel Vari-Focal Lens



Dimensions Body: 82mm(W) x 72.5mm(H) x 154mm(D)
Bracket: 101mm(L)
(Unit:mm)



Weatherproof IR Camera			
Name		D/N SUPERHIGH RES. VARI-FOCAL IR CAMERA	
Series Number		CMR 752X	
Model		CMR752X3.6N	CMR752X3.6P
Lens	Focal Length		3.3~12mm
	Iris		F1.4
	Angle of view	H	89.8°~ 23.9°
		V	63.6°~ 17.9°
D		125.7°~ 29.9°	
Power Input Voltage		DC12V±10%	
Sync. Mode		Internal	
Pick Up Element		Sony 1/3" Super HAD CCD Sensor	
Effective Pixels		768(H)X494(V)	752(H)X582(V)
Chip Size		5.59mm(H) x 4.68mm(V)	
Horizontal & Vertical Sync. Frequency		15.734KHz / 59.94Hz	15.625KHz / 50Hz
Scanning System		2 : 1 Interlace	
Infrared Cut Filter		Auto Selectable, Automatic Switch From Color Mode to Monochrome	
Resolution		Color: 540TV Lines, Mono: 600TV Lines	
Minimum Illumination		Color: 0.05Lux /F1.4 , Mono: 0.01Lux /F1.4 0Lux (IR ON)	
S/N Ratio		More Than 50dB (AGC OFF)	
Auto Gain Control		36dB Variable Gain	
White Balance		ATW	
Aperture Correction		Horizontal, Vertical	
Electronic Shutter		1/60(1/50)S ~ 1/100,000S (AUTO or OFF)	
Back Light Compensation		Auto	
Video Output		CVBS1.0Vp-p , 75Ohm	
Gamma Characteristic		γ=0.45	
Power Consumption		6.6W	
Infrared LED	Peak Wavelength		850nm
	Beam Spread		30°
	Radiant Distance		30M
Window		Φ61 Heat Resistant Glass	
IP Rating		IP66	
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)	
Dimension		Body: 82mm(W) x 72.5mm(H) x 154mm(D), Bracket: 101mm(L)	
Weight		500g	



FAST DOME

Indoor IR Fast Dome

Indoor Fast Dome

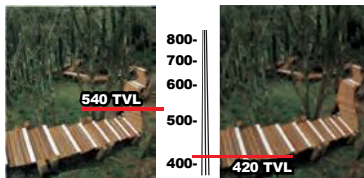
Outdoor Fast Dome



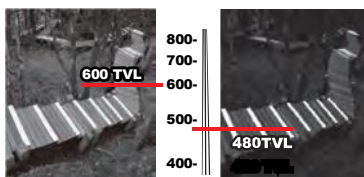


540 TV Lines

High Resolution 540 TV Lines



Color:540TVL



Mono:600TVL



AWB

Allows the color camera to adjust the tone according to the light source, adjust to produce white color while detecting white color object in the scene.



AWB OFF



AWB ON



AGC

In low brightness situation, the Auto Gain Control will be adjusted according to lighting condition for displaying a bright and clear image.



AGC OFF



AGC ON



Day & Night with IR Cut Filter

Day & Night- equip with built-in Mechanical ICR filter perfect for 24-hour and 7 day (24/7) surveillance. It provides perfectly visible colors during daylight and IR Cut filter remove automatically at night time to give clear B/W images at night as well.



Day



Night



BLC

When light is behind the main object, the main object and back ground's light and shade contrast is big, uses backlight compensation function to make both main object and background exposure level close.



BLC OFF



BLC ON



Privacy Zone

Privacy Zone – with the advanced Privacy Zone Masking function, unwanted or prohibited areas within an image can be masked appropriately.



Conventional



Privacy Zone



OSD

On-screen display function may display date, time, camera ID, system configuration and control details.



Optical Zoom Lens

Choice of 2.6X.12X.25X.30X.35X optical zoom with maintain focus.



Conventional



Optical Zoom Lens



Auto-Tracking

Auto lock and Zoom-in to oncoming objects

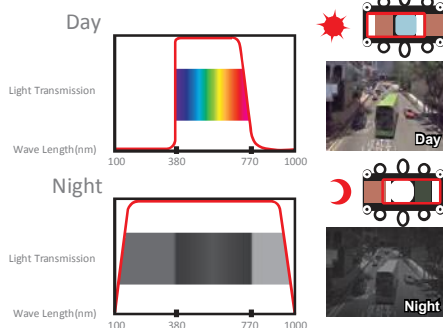


(Selection: 1.Auto tracking 2.Presets patrol)



IR Cut Filter

Auto Selectable / Automatic Switch from Color Mode to Monochrome.

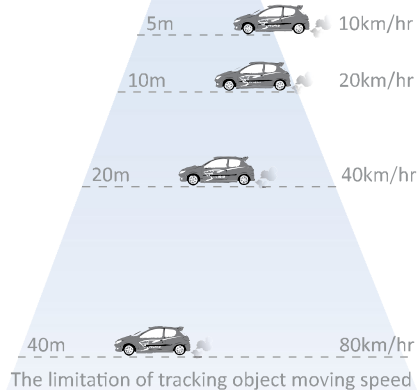


Wide Dynamic Range

Wide Dynamic Range – utilizes 1/3" Vertical Double-Density Interline CCD Sensor incorporating powerful 3D WDR, captures cleaner and superior high resolution pictures even in harsh lighting conditions typically experienced when outside sunlight and indoor light sources overlap.



Angle of View 43.7°



IR LED

Built in Infrared LED, enhance the brightness of illuminated object.



IR LED OFF



IR LED ON



IP Rated

IP Rated, water-proof and dust proof



Flickerless

Prevent image flickering cause by different frequency between light and camera system.





50dB S / N Ratio

Ratio –Signal / Noise Ratio, indicates noise level, higher ratio, less noise.



Comparison Table

Fast Dome Series				
Product picture				
Series Number	SP203 / SP212	SP303 / SP312	PIH-7625DH / PIH-7630DH / PIH-7635DH	PIH-7525DH / PIH-7530DH / PIH-7535DH
Name	2.6X / 12X Super High Resolution IR Fast Dome Camera Series	2.6X / 12X Day & Night Super High-Resolution Fast Dome Camera Series	25X / 30X / 35X High Resolution Day & Night Fast Dome Camera Series	25X / 30X / 35X Outdoor High Resolution Day & Night Fast Dome Camera Series
Color Resolution	540TVL	540TVL	520TVL	520TVL
Color Minimum Illumination	0.5 Lux / F1.9(SP203) 0.3 Lux / F1.6(SP212)	0.5 Lux / F1.9 (SP303) 0.3 Lux / F1.6(SP312)	0.1 Lux / F1.6	
D/N (Built-in IR Cut Filter)	☺	☺	☺	☺
IR LED	☺	-	-	-
Zoom Ratio	2.6X (SP203) / 12X(SP212)	2.6X (SP303)/ 12X(SP312)	25X/30X/35X	25X/30X/35X
Presets	128		128	
Privacy Zone	4 zone		8 zone	
IP66	-	-	-	☺
Extension Models	IP Model (IPS203/212)	IP Model (IPS303/312)	Tracking Model (ST125/130/135) IP Model (IPS125/130/135)	Tracking Model (ST025/030/035) IP Model (IPS025/030/035)

25X Day & Night High Resolution Fast Dome Camera

The PIH-7625D series Day & Night High Resolution Fast Dome Camera is equipped with a 25x optical zoom lens, Combined with a 256x digital zoom, for a total zoom capability up to 4600. The PIH-7625DW series Day & Night High Resolution Fast Dome Camera is equipped with a 25x optical zoom lens, Combined with a 2.56x digital zoom, for a total zoom capability up to 64x, this camera can identify distant subject. With its 400:1 Wide Dynamic Range, the PIH-7625DW Series works beautifully even when contrast changes from scene to scene. Area free natural contrast image correction ensures accurate reproduction, whatever the subject. With 480 TVL resolution (color) and 520 TVL resolution (mono). They also provide images stay clear during night time and sharp in lighting as low as 0.1 Lux (in color) and 0.01 Lux (in Mono) with ICR Day & Night feature.

Day / Night & Human Tracking System Fast Dome Camera

The 25X Fast Dome Camera incorporates an IR Cut Filter mechanism which automatically switches between color during the day and mono at night. Offering unrivalled picture quality, the camera provides a wealth of features and is extremely simple to install and operate. The PIH-7625T has a built-in intelligent video processing chip to improve accuracy and eliminate false action occurrence. Different from other cameras, our new technology allows us to manage the motion tracking function with a single camera. The system will auto zoom and monitor the object on the screen.

25X/30X/35X Day & Night Super High Resolution Fast Dome Camera

The new LILIN PIH-7625/7630/7635DH series Day & Night Super High Resolution Fast Dome Camera is equipped with a 25x/30x/35x optical zoom lens. Horizontal resolution is also significantly higher, 520 lines (typical) in color or 580 lines in Mono. Its also provides images stay clear during night time and sharp in lighting as low as 0.1 lux (in color) and 0.01 lux (in Mono) with IR Day & Night feature. Its 0.15°/sec. slow speed fine control and powerful zoom let you zoom in smoothly on your subject. In addition, PIH-7625/7630/7635DH series provides premium features such as 128 presets, 8 privacy zone, ensuring the data protection and security requirement. The PIH-7625/7630/7635DH demonstrates the best stability and reliability for your security.

25X/30X/35X Human Tracking System Fast Dome Camera

The new LILIN ST125/130/135 series Human Tracking System Fast Dome Camera is equipped with a 25x/30x/35x optical zoom lens. Horizontal resolution is also significantly higher, 520 lines (typical) in color or 580 lines in Mono. Its also provides images stay clear during night time and sharp in lighting as low as 0.1 lux (in color) and 0.01 lux (in Mono) with IR Day & Night feature. Its 0.15°/sec. slow speed fine control and powerful zoom let you zoom in smoothly on your subject. In addition, ST125/130/135 series provides premium features such as 128 presets, 8 privacy zone, ensuring the data protection and security requirement. Moreover, new intelligent functions, auto tracking function.

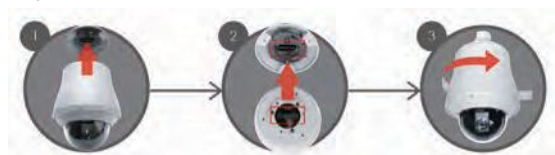
25X/30X/35X Outdoor Day & Night Super High Resolution Fast Dome Camera

The new LILIN PIH-7525/7530/7535DH series Outdoor Day & Night Super High Resolution Fast Dome Camera integrates a weatherproof housing, 360° high-speed pan and tilt base, and 25x/30x/35x optical zoom lens. Up to 255 arbitrary positions can be preset and such preset positions can be instantaneously repeated. Moreover, horizontal resolution is also significantly higher, 520 lines (typical) in color or 580 lines in Mono. It also provides images stay clear during night time and sharp in lighting as low as 0.1 lux (in color) and 0.01 lux (in Mono) with IR Day & Night feature. Its 0.15°/sec. slow speed fine control and powerful zoom let you zoom in smoothly on your subject. In addition, PIH-7525/7530/7535DH series provides premium features such as 128 presets, 8 privacy zone, ensuring the data protection and security requirement. Because the camera is integrated with an outdoor use housing and a built-in fan heater, it can be freely used outdoors as well.

25X/30X/35X Outdoor Human Tracking System Fast Dome Camera

The new LILIN ST025/030/035 series Outdoor Human Tracking System Fast Dome Camera integrates a weatherproof housing, 360° highspeed pan and tilt base, and 25x/30x/35x optical zoom lens. Up to 255 arbitrary positions can be preset and such preset positions can be instantaneously repeated. Moreover, horizontal resolution is also significantly higher, 520 lines (typical) in color or 580 lines in Mono. Its also provides images stay clear during night time and sharp in lighting as low as 0.1 lux (in color) and 0.01 lux (in Mono) with IR Day & Night feature. Its 0.15°/sec. slow speed fine control and powerful zoom let you zoom in smoothly on your subject. In addition, ST025/030/035 series provides premium features such as 128 presets, 8 privacy zone, ensuring the data protection and security requirement. Moreover, new intelligent functions, auto tracking function. Because the camera is integrated with an outdoor use housing and a built-in fan heater, it can be freely used outdoors as well.

Easy installation



Design and specifications are subject to change without notice.





SP 203 / 212

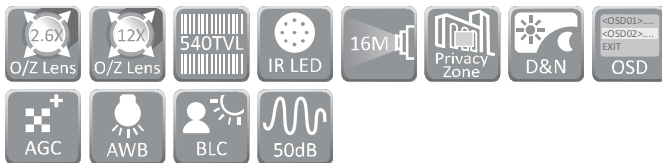
Fast Dome Series

2.6X / 12X Super High Resolution IR Fast Dome Camera Series

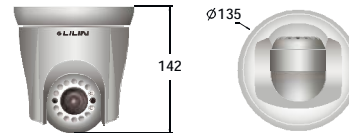


Features

- 2.6X Optical Zoom Lens(2.8 ~ 7.3 mm) /
- 12X Optical Zoom Lens (3.8 ~ 45.6mm)
- Privacy Masking Zone Function
- Higher Horizontal Resolution of 540 TV Lines
- Auto Focus Lens
- Horizontal Flip Function
- Auto Panning Function with Auto Scan or Seq. or Tours
- 360° Endless Panning
- Multi-Protocol
- 8 Languages (English / French / German / Spanish / Chinese / Portuguese / Russian / Polish)



Dimensions 142 mm (H) x 135 mm (D)



(Unit:mm)

Indoor Fast Dome Camera

2.6X / 12X Super High Resolution IR Fast Dome Camera Series

Name			2.6X / 12X Super High Resolution IR Fast Dome Camera Series								
General	Model		SP2034N	SP2038N	SP2034P	SP2038P	SP2124N	SP2128N	SP2124P	SP2128P	
	System		NTSC		PAL		NTSC		PAL		
	Power Supply		AC 24V ±10% AC 100V ~ 240V		AC 24V ±10% AC 100V ~ 240V		AC 24V ±10% AC 100V ~ 240V		AC 24V ±10% AC 100V ~ 240V		
	Power Consumption		10 Watts								
	Image Pick-up Device		Sony 1/4" Super HAD CCD								
	Effective Pixels		768 (H) x 494 (V)		752 (H) x 582 (V)		768 (H) x 494 (V)		752 (H) x 582 (V)		
	Scanning System		2:1 Interlace								
	Scanning Frequency		15.734 KHz (H) , 59.94 Hz (V)		15.625 KHz (H) , 50 Hz (V)		15.734 KHz (H) , 59.94 Hz (V)		15.625 KHz (H) , 50 Hz (V)		
	Synchronization		Internal								
	Video Output		CVBS 1.0 Vp-p / 75 ΩBNC								
	Horizontal Resolution		Color : 540 TV Lines , Mono : 600 TV Lines								
	Signal to Noise Ratio		More Than 50 dB (AGC : Off)								
	Minimum Illumination		Color : 0.5 Lux at F1.9 , Mono : 0 Lux (IR On)				Color : 0.3 Lux at F1.6 , Mono : 0 Lux (IR On)				
	Ambient Operation Temperature		- 10°C ~ + 50°C (14°F ~ 122°F)								
Operating Humidity		0% ~ 90%									
Pan & Tilt	Infrared LED	Peak Wavelength	850nm								
		Beam Spread	30°								
		Radiant Distance	16M								
	Dimensions		142 mm (H) x 135 mm (D)								
	Weight		1000g								
	Panning Range		360°Endless								
	Panning Mode		Manual , Auto , Manual Position , Sequential Position								
	Panning Speed		Manual Approx. 0.5°/s ~ 90°/s 8 Steps, Preset Approx. 1°/s ~ 120°/s								
	Tilting Range		0° ~ 90°								
	Tilting Mode		Manual , Auto , Manual Position , Sequential Position								
	Tilting Speed		Manual Approx. 0.5°/s ~ 90°/s 8 Steps, Preset Approx. 1°/s ~ 120°/s								
	Zoom Ratio		2.6X Optical Zoom				12X Optical Zoom				
	Focal Length		2.8 mm ~ 7.3 mm				3.8 mm ~ 45.6 mm				
	Lens	Maximum Aperture Ratio		1 : 1.9 (Wide) ~ 3.1 (Tele)				1 : 1.6 (Wide) ~ 2.7 (Tele)			
Minimum Object Distance		0.6 m (Tele)				1 m (Tele)					
Iris Range		F/1.9 ~ F/200				F/1.6 ~ F/360					
Angle Field of View		Wide : 92.2°(D) 73.4°(H) 54.7°(V) / Tele : 35.8°(D) 28.7°(H) 21.6°(V)				Wide : 65.4°(D) 52.8°(H) 39.7°(V) / Tele : 5.54°(D) 4.49°(H) 3.40°(V)					
Main Function	Control Interface		RS-485 Half-Duplex								
	Control Function		Pan and Tilt and Zoom / Iris / 128 Preset Position / Home Position				Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position				
	Character Display		On / Off (Preset ID : 16 Alphanumeric Characters , Zoom Ratio , Date / Time , Pan / Tilt Angle)								
	Zoom Speed		1 ~ 8 Selectable [8 : Approx. 3.0 Second (Tele to Wide) in Manual Mode]				1 ~ 15 Selectable [15 : Approx. 6.0 Second (Tele to Wide) in Manual Mode]				
	Focus Speed		None				1 ~ 15 Selectable [15 : Approx. 3.0 Second (Far to Near) in Manual Mode]				
	Focus		Pan-focus Zoom				Auto / One Push				
	Iris		ALC (Adjustable Output Target Level)								
	Day & Night		Day (Color) / Night (Mono) / Auto / Schedule								
	Password Lock		Camera Advance / Presets / Privacy Zones / Factory Initial								
	Electronic Shutter Speed		Auto / Manual Selectable (1/60 ~ 1/100,000 sec)		Auto / Manual Selectable (1/50 ~ 1/100,000 sec)		Auto / Manual Selectable (1/60 ~ 1/100,000 sec)		Auto / Manual Selectable (1/50 ~ 1/100,000 sec)		
	Back Light Compensation		On / Off Selectable								
	White Balance		ATW / MWB Selectable								
	Auto Gain Control		0 ~ 36 dB Selectable								
	Auto Mode		OFF / AUTO / SEQ / TOUR								
Privacy Zone		On / Off Selectable (Up to 4 Zones Settings)									
Image Mirror		On / Off Selectable									
Protocol Support		Multi-Protocol									
Schedule Setting		Day & Night / Auto Mode / Daylight Saving Time									

Design and specifications are subject to change without notice.





SP 303 / 312

Fast Dome Series

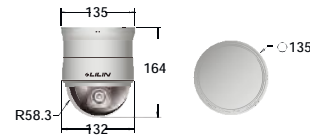
2.6X / 12X D/N Super High-Resolution Fast Dome Camera Series



Features

- 2.6X Optical Zoom Lens (2.8 ~ 7.3 mm) / 12X Optical Zoom Lens (3.8 ~ 45.6 mm)
- Privacy Masking Zone Function
- Higher Horizontal Resolution of 540 TV Lines
- Auto Focus Lens
- Horizontal Flip Function
- Auto Panning Function with Auto Scan or Seq. or Tours
- 360° Endless Panning
- Multi -Protocol
- 8 Languages (English / French / German / Spanish / Chinese / Portuguese / Russian / Polish)

Dimensions 164 mm (H) x 135 mm (D)



(Unit:mm)

Indoor Fast Dome Camera									
Name		2.6X / 12X Day & Night Super High-Resolution Fast Dome Camera Series							
General	Model	SP3034N	SP3038N	SP3034P	SP3038P	SP3124N	SP3128N	SP3124P	SP3128P
	System	NTSC		PAL		NTSC		PAL	
	Power Supply	AC 24V ±10%	AC 100V ~ 240V	AC 24V ±10%	AC 100V ~ 240V	AC 24V ±10%	AC 100V ~ 240V	AC 24V ±10%	AC 100V ~ 240V
	Power Consumption	8.5 W							
	Image Pick-up Device	Sony 1/4" Super HAD CCD							
	Effective Pixels	768 (H) x 494 (V)		752 (H) x 582 (V)		768 (H) x 494 (V)		752 (H) x 582 (V)	
	Scanning System	2:1 Interlace							
	Scanning Frequency	15.734 KHz (H) , 59.94 Hz (V)		15.625 KHz (H) , 50 Hz (V)		15.734 KHz (H) , 59.94 Hz (V)		15.625 KHz (H) , 50 Hz (V)	
	Synchronization	Internal							
	Video Output	CVBS 1.0 Vp-p / 75 ΩBNC							
	Horizontal Resolution	Color : 540 TV Lines , Mono : 600 TV Lines							
	Signal to Noise Ratio	More Than 50 dB (AGC : Off)							
	Minimum Illumination	Color : 0.5 Lux at F1.9 , Mono : 0.1 Lux at F1.9				Color : 0.3 Lux at F1.6 , Mono : 0.06 Lux at F1.6			
	Ambient Operation Temperature	- 10°C ~ + 50°C (14°F ~ 122°F)							
	Operating Humidity	0% ~ 90%							
	Dimension	164 mm (H) x 135 mm (D)							
Weight	1050g								
Pan & Tilt	Panning Range	360°Endless							
	Panning Mode	Manual , Auto , Manual Position , Sequential Position							
	Panning Speed	Manual Approx. 0.5°/s ~ 90°/s 8 Steps, Preset Approx. 1°/s ~ 120°/s							
	Tilting Range	0°~ 90°							
	Tilting Mode	Manual , Auto , Manual Position , Sequential Position							
	Tilting Speed	Manual Approx. 0.5°/s ~ 90°/s 8 Steps, Preset Approx. 1°/s ~ 120°/s							
Lens	Zoom Ratio	2.6X Optical Zoom				12X Optical Zoom			
	Focal Length	2.8 mm ~ 7.3 mm				3.8 mm ~ 45.6 mm			
	Maximum Aperture Ratio	1 : 1.9 (Wide) ~ 3.1 (Tele)				1 : 1.6 (Wide) ~ 2.7 (Tele)			
	Minimum Object Distance	0.6 m (Tele)				1 m (Tele)			
	Iris Range	F/1.9 ~ F/200				F/1.6 ~ F/360			
	Angle Field of View	Wide : 92.2°(D) 73.4°(H) 54.7°(V) / Tele : 35.8°(D) 28.7°(H) 21.6°(V)				Wide : 65.4°(D) 52.8°(H) 39.7°(V) / Tele : 5.54°(D) 4.49°(H) 3.40°(V)			
Main Function	Control Interface	RS-485 Half-Duplex							
	Control Function	Pan and Tilt and Zoom / Iris / 128 Preset Position / Home Position				Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position			
	Character Display	On / Off (Preset ID : 16 Alphanumeric Characters , Zoom Ratio , Date / Time , Pan / Tilt Angle)							
	Zoom Speed	1 ~ 8 Selectable [8 : Approx. 3.0 Second (Tele to Wide) in Manual Mode]				1 ~ 15 Selectable [15 : Approx. 6.0 Second (Tele to Wide) in Manual Mode]			
	Focus Speed	None				1 ~ 15 Selectable [15 : Approx. 3.0 Second (Far to Near) in Manual Mode]			
	Focus	Pan-focus Zoom				Auto / One Push			
	Iris	ALC (Adjustable Output Target Level)							
	Day & Night	Day (Color) / Night (Mono) / Auto / Schedule							
	Password Lock	Camera Advance / Presets / Privacy Zones / Factory Initial							
	Electronic Shutter Speed	Auto / Manual Selectable (1/60 ~ 1/100,000 sec)		Auto / Manual Selectable (1/50 ~ 1/100,000 sec)		Auto / Manual Selectable (1/60 ~ 1/100,000 sec)		Auto / Manual Selectable (1/50 ~ 1/100,000 sec)	
	Back Light Compensation	On / Off Selectable							
	White Balance	ATW / MWB Selectable							
	Auto Gain Control	0 ~ 36 dB Selectable							
	Auto Mode	OFF / AUTO / SEQ / TOUR							
	Privacy Zone	On / Off Selectable (Up to 4 Zones Settings)							
	Image Mirror	On / Off Selectable							
Schedule Setting	Day & Night / Auto Mode / Daylight Saving Time								



PIH 7625DH / 7630DH / 7635DH ST 125 / 130 / 135

Fast Dome Series

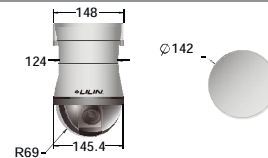
25X / 30X / 35X High Resolution D/N
Fast Dome Camera Series



Features

- 25X Optical Zoom Lens (3.43 ~ 85.7 mm) /
30X Optical Zoom Lens (3.43 ~ 102.9 mm) /
35X Optical Zoom Lens (3.43 ~ 120 mm)
- 520 Horizontal TV Lines
- Automatic / Manual Iris Control
- Preset ID / Name
- Preset Background Environment File
- Private Mask
- Up to 128 Programmable Preset Positions
- RS-485 Control Interface
- Up to 256 Fast Dome Configuration
- 8 Languages (English / French / German / Spanish /
Chinese / Portuguese / Russian / Polish)

Dimensions 238mm(H)x142mm(D)



(Unit:mm)

Fast Dome Camera

Name		25X / 30X / 35X High Resolution Day & Night Fast Dome Camera Series					
Model	Standard Model	PIH-7625DHNL/F	PIH-7630DHNL/F	PIH-7635DHNL/F	PIH-7625DHPL/F	PIH-7630DHPL/F	PIH-7635DHPL/F
	Tracking Model	ST1254N/1258N	ST1304N/1308N	ST1354N/1358N	ST1254P/1258P	ST1304P/1308P	ST1354P/1358P
General	System	NTSC			PAL		
	Power Supply	PIH-7625/30/35 L type and ST1254/1304/1354: AC 24V±10% / PIH-7625/30/35 F type and ST1258/1308/1358: AC 100~240V					
	Power Consumption	Standard model 13 W / Tracking model 15W					
	Image Pick-up Device	Sony 1/4" EXview HAD CCD					
	Effective Pixels	768 (H) x 494 (V)			752 (H) x 582 (V)		
	Scanning System	2:1 Interlace					
	Scanning Frequency	15.734 KHz (H) , 59.94 Hz (V)			15.625 KHz (H) , 50 Hz (V)		
	Synchronization	Internal / Line Lock Selectable					
	Video Output	CVBS 1.0 Vp-p / 75 ΩBNC					
	Horizontal Resolution	Color : 520 TV Lines Mono: 580 TV Lines					
Pan & Tilt	Signal to Noise Ratio	More Than 50 dB (AGC : Off)					
	Minimum Illumination	Color : 0.1 Lux at F1.6 Mono: 0.01 Lux at F1.6					
	Ambient Operation Temperature	-10°C~ + 50°C (14°F ~ 122°F)					
	Operating Humidity	0% ~ 90%					
	Dimension	238mm(H)x142mm(D)					
	Weight	2300g					
	Panning Range	360° Endless					
	Panning Mode	Manual, Auto , Manual Position , Sequential Position					
	Panning Speed	Manual Approx. 0.15°/s ~ 120°/s 8 Steps, Preset Approx. 1°/s ~ 255°/s, Alarm Trigger Speed 360°/s					
	Tilting Range	-6°~ +96°					
Main Function	Tilting Mode	Manual, Auto , Manual Position , Sequential Position					
	Tilting Speed	Manual Approx. 0.15°/s ~ 120°/s 8 Steps, Preset Approx. 1°/s ~ 255°/s, Alarm Trigger Speed 360°/s					
	Control Interface	RS-485 Transmission					
	Control Function	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position / Patrol					
	Character Display	On / Off (Preset ID : 16 Alphanumeric Characters , Alarm Message , Zoom Ratio , Date / Time , Pan / Tilt Angle)					
	Zoom Speed	0 ~ 7 Selectable [7 : Approx. 3.0 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 3.5 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 4.0 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 3.0 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 3.5 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 4.0 Second (Tele to Wide) in Manual Mode]
	Focus Speed	Slow / Mid. / Fast Selectable [Fast : Approx. 2.0 Second (Far to Near) in Manual Mode]					
	Auto Focus	Auto / One Push					
	Iris	ALC (Adjustable Output Target Level) / Manual					
	IR Cut Filter	Yes					
25X Lens	Password Lock	Function Setup					
	Electronic Shutter Speed	Auto / Manual Selectable (1/60 ~ 1/100,000 sec)			Auto / Manual Selectable (1/50 ~ 1/100,000 sec)		
	Back Light Compensation	On / Off Selectable					
	White Balance	ATW / PUSH / MWB Selectable					
	Auto Gain Control	0 ~ 36 dB Selectable					
	Auto Mode	OFF / AUTO / SEQ / TOUR / PATROL (STOP / PLAY / LEARN)					
	Privacy Zone	On / Off Selectable (Up to 8 Zones Settings)					
	Image Mirror	On / Off Selectable					
	Image Negative	On / Off Selectable					
	Alarm Input / Output	6 Input [Alarm In 1 ~ 6 (NC / NO)] , 1 Output (Alarm Out NC / NO)					
30X Lens	Schedule Setting	Alarm Input / Auto Mode / Daylight Saving Time					
	Zoom Ratio	25X Optical Zoom					
	Focal Length	3.43 mm ~ 85.7 mm					
	Maximum Aperture Ratio	1 : 1.6 (Wide) ~ 3.7 (Tele)					
	Minimum Object Distance	1.5 m (Tele)					
	Iris Range	F1.6 ~ 360, Close					
	Angle Field of View	Wide : 68.6° (D) 57.8° (H) 43.7° (V) / Tele : 3.12° (D) 2.53° (H) 1.83° (V)					
	Zoom Ratio	30X Optical Zoom					
	Focal Length	3.43 mm ~ 102.9 mm					
	Maximum Aperture Ratio	1 : 1.6 (Wide) ~ 4.1 (Tele)					
35X Lens	Minimum Object Distance	1.5 m (Tele)					
	Iris Range	F1.6 ~ 360, Close					
	Angle Field of View	Wide : 68.6° (D) 57.8° (H) 43.7° (V) / Tele : 2.60° (D) 2.10° (H) 1.53° (V)					
	Zoom Ratio	35X Optical Zoom					
	Focal Length	3.43 mm ~ 120 mm					
	Maximum Aperture Ratio	1 : 1.6 (Wide) ~ 4.5 (Tele)					
	Minimum Object Distance	1.5 m (Tele)					
	Iris Range	F1.6 ~ 360, Close					
	Angle Field of View	Wide : 68.6° (D) 57.8° (H) 43.7° (V) / Tele : 2.23° (D) 1.70° (H) 1.30° (V)					



PIH 7525DH / 7530DH / 7535DH

Fast Dome Series

ST 025 / 030 / 035

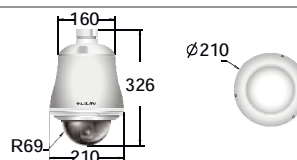
25X / 30X / 35X Outdoor High Resolution
D/N Fast Dome Camera Series



Features

- 25X Optical Zoom Lens (3.43 ~ 85.7 mm) /
30X Optical Zoom Lens (3.43 ~ 102.9 mm) /
35X Optical Zoom Lens (3.43 ~ 120 mm)
- 520 Horizontal TV Lines
- Automatic / Manual Iris Control
- Preset ID / Name
- Preset Background Environment File
- Private Mask
- Up to 128 Programmable Preset Positions
- RS - 485 Control Interface
- Up to 256 Fast Dome Configuration
- Auto Tracking (ST025 / 030 / 035)
- 8 Languages (English / French / German / Spanish / Chinese /
Portuguese / Russian / Polish)

Dimensions 326 mm (H) x 210 mm (D)



(Unit:mm)



Outdoor Fast Dome Camera							
Name		25X / 30X / 35X Outdoor High Resolution Day & Night Fast Dome Camera Series					
Model	Standard Model	PIH-7525DHNL/F ST0254N/0258N	PIH-7530DHNL/F ST0304N/0308N	PIH-7535DHNL/F ST0354N/0358N	PIH-7525DHPL/F ST0254P/0258P	PIH-7530DHPL/F ST0304P/0308P	PIH-7535DHPL/F ST0354P/0358P
General	System	NTSC					
	Power Supply	PIH-7525/30/35 L type and ST0254/0304/0354: AC 24V±10% / PIH-7525/30/35 F type and ST0258/0308/0358: AC 100~240V					
	Power Consumption	Standard model 22 W (Heater : ON) / Tracking model 24 W (Heater : ON)					
	Image Pick-up Device	Sony 1/4" Exview HAD CCD					
	Effective Pixels	768 (H) x 494 (V)		2:1 Interlace		752 (H) x 582 (V)	
	Scanning System	Internal / Line Lock Selectable					
	Scanning Frequency	15.734 KHz (H) , 59.94 Hz (V)		15.625 KHz (H) , 50 Hz (V)			
	Synchronization	CVBS 1.0 Vp-p / 75 Ω BNC					
	Video Output	Color : 520 TV Lines Mono: 580 TV Lines					
	Horizontal Resolution	More Than 50 dB (AGC : Off)					
	Signal to Noise Ratio	Color : 0.1 Lux at F1.6 Mono: 0.01 Lux at F1.6					
	Minimum Illumination	IP 66					
	IP Rating	- 10℃ ~ + 50℃ (14°F ~ 122°F)					
	Ambient Operation Temperature	0% ~ 90%					
	Operating Humidity	326 mm (H) x 210 mm (D)					
Dimensions	3200 g						
Weight	On: 15 , Off: 25 °C						
Heater Activation	On: 35 , Off: 25 °C						
Fan Activation	360°Endless						
Pan & Tilt	Panning Range	Manual , Auto , Manual Position , Sequential Position					
	Panning Mode	Manual Approx. 0.15°/s ~ 120°/s 8 Steps, 16 Steps / Preset Approx. 1°/s ~ 255°/s, Alarm Trigger Speed 360°/s					
	Panning Speed	- 6° ~ + 96°					
	Tilting Range	Manual , Auto , Manual Position , Sequential Position					
	Tilting Mode	Manual Approx. 0.15°/s ~ 120°/s 8 Steps, 16 Steps / Preset Approx. 1°/s ~ 255°/s, Alarm Trigger Speed 360°/s					
Main Function	Tilting Speed	RS-485 Transmission					
	Control Interface	Pan and Tilt / Zoom and Focus / Iris and ICR / 128 Preset Position / Home Position / Patrol					
	Control Function	On / Off (Preset ID : 16 Alphanumeric Characters , Zoom Ratio , Alarm Message , Date / Time , Pan / Tilt Angle)					
	Character Display	0 ~ 7 Selectable [7 : Approx. 3.0 Second (Tele to Wide) in Manual Mode]					
	Zoom Speed	0 ~ 7 Selectable [7 : Approx. 3.0 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 3.5 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 4.0 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 3.0 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 3.5 Second (Tele to Wide) in Manual Mode]	0 ~ 7 Selectable [7 : Approx. 4.0 Second (Tele to Wide) in Manual Mode]
	Focus Speed	Slow / Mid. / Fast Selectable [Fast : Approx. 2.0 Second (Far to Near) in Manual Mode]					
	Auto Focus	Auto / One Push					
	Iris	ALC (Adjustable Output Target Level) / Manual					
	IR Cut filter	Yes					
	Password Lock	Function Setup					
	Electronic Shutter Speed	Auto / Manual Selectable (1/60 ~ 1/100,000 sec)		Auto / Manual Selectable (1/50 ~ 1/100,000 sec)			
	Back Light Compensation	On / Off Selectable					
	White Balance	ATW / PUSH / MWB Selectable					
	Auto Gain Control	0 ~ 36 dB Selectable					
	Auto Mode	OFF / AUTO / SEQ / TOUR / PATROL (STOP / PLAY / LEARN)					
	Privacy Zone	On / Off Selectable (Up to 8 Zones Settings)					
	Image Mirror	On / Off Selectable					
	Image Negative	On / Off Selectable					
	Alarm Input / Output	6 Input [Alarm In 1 ~ 6 (NC / NO)] , 1 Output (Alarm Out NC / NO)					
Schedule Setting	Alarm Input / Auto Mode / Daylight Saving Time						
25X Lens	Zoom Ratio	25X Optical Zoom					
	Focal Length	3.43 mm ~ 85.7 mm					
	Maximum Aperture Ratio	1 : 1.6 (Wide) ~ 3.7 (Tele)					
	Minimum Object Distance	1.5 m (Tele)					
	Iris Range	F1.6 ~ 360 , Close					
30X Lens	Angle Field of View	Wide : 68.6° (D) 57.8° (H) 43.7° (V) / Tele : 3.12° (D) 2.53° (H) 1.83° (V)					
	Zoom Ratio	30X Optical Zoom					
	Focal Length	3.43 mm ~ 102.9 mm					
	Maximum Aperture Ratio	1 : 1.6 (Wide) ~ 4.1 (Tele)					
	Minimum Object Distance	1.5 m (Tele)					
35X Lens	Iris Range	F1.6 ~ 360 , Close					
	Angle Field of View	Wide : 68.6° (D) 57.8° (H) 43.7° (V) / Tele : 2.60° (D) 2.10° (H) 1.53° (V)					
	Zoom Ratio	35X Optical Zoom					
	Focal Length	3.43 mm ~ 120 mm					
	Maximum Aperture Ratio	1 : 1.6 (Wide) ~ 4.5 (Tele)					
	Minimum Object Distance	1.5 m (Tele)					
	Iris Range	F1.6 ~ 360 , Close					
	Angle Field of View	Wide : 68.6° (D) 57.8° (H) 43.7° (V) / Tele : 2.23° (D) 1.70° (H) 1.30° (V)					



DVR

Hybrid NDR Series

H.264 DVR Series










MPEG-4 DVR Series














































Comparison Table

DVR Series

NDR	
Product picture	
NEW	
Name	Real time Full D1 pure Hybrid DVR
Series Number	NDR104
Channel	Analog camera*4 or IP cameras*4 or Mixed.
Compression Format	H.264
Internal HDD Support	1
Built-in DVD or CD/RW	NO (External DVD/ RW supported)
Recording Speed	NTSC: (D1) 120 FPS / PAL: (D1) 100 FPS
Audio	
HTML	
Free CMX Software	
Lower Power Consumption	
e-SATA	
HDMI	
VGA 1920*1080p	

DVR			
Product picture			
NEW			
Name	DVR Series		
Series Number	DVR-316	DVR-308	DVR-304
Channel	Analog * 16	Analog * 8	Analog * 4
Compression Format	H.264	H.264	H.264
Internal HDD Support	2	2	1
Built-in DVD or CD/RW	NO (External DVD/ RW supported)		
Recording Speed	NTSC:D1 120 / CIF 480FPS PAL:D1 100 / CIF 400FPS	NTSC:D1 120 / CIF 240FPS PAL:D1 100 / CIF 200FPS	NTSC:D1 120 / CIF 120FPS PAL:D1 100 / CIF 100FPS
Audio			
HTML			
Free CMX Software			
Lower Power Consumption			
VGA 1920*1080 i			

DVR		
Product picture		
NEW		
Name	DVR Series	
Series Number	DVR508D / 508	DVR516D / 516
Channel	8	16
Compression Format	H.264	H.264
Internal HDD Support	2	2
Built-in DVD or CD/RW	Slim DVD R/W support (Optional) External USB DVD/RW	
Recording Speed	NTSC: D1 120 / CIF 240 FPS PAL: D1 100 / CIF 200 FPS	NTSC: D1 120 / CIF 480 FPS PAL: D1 100 / CIF 400 FPS
Audio		
HTML		
Free CMX Software		
Lower Power Consumption		
VGA 1920*1080 i		
Analog video looping		
Easy-to use Jog-and-shuttle button operation		
Design with 2U rack-mount chassis		



H.264

High Compression Rate H.264 Compression Technology, saves hard disk storage space.



MPEG-4

High Compression Rate MPEG-4 Compression Technology.



MJPEG

MJPEG Compression Technology.



GUI

Image Setting Menu includes system setting, camera setting, recording setting, alarm setting, network setting and etc.



Web Browser (Internet)

User may use IE browser to control DVR functions access over network.



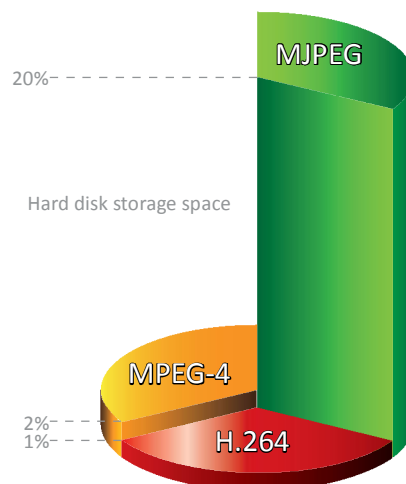
Audio

Network Audio / Voice and live monitoring.



USB

Supports USB Flash Disk for file back-up.



Drag-n-Drop

User can easily drag-and-drop the image of each channel and change its settings.



PIP

Picture-in-Picture



ROI

ROI is support at 5X and 9X zoom with PIP for view.



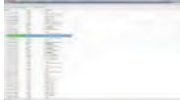


Mouse

Mouse supported.



CMX Software HD3.6

		
NVR Central	eMap Manager	Database Manager
<ul style="list-style-type: none"> H.264 AVC full D1/HD recording User access level Group monitoring Smart search PTZ control Audio monitoring 	<ul style="list-style-type: none"> eMap Live monitoring alarm triggering Alarm snapshots Device find PTZ control 	<ul style="list-style-type: none"> Event and alarm management Network status report Database maintenance Database import & export Reports



File Backup

- USB flash disk
- USB DVD/RW recording
- File for FTP / HTTP download
- Play H.264 / AVI / MPEG4 Files



USB DVD/RW



USB 2.0 connector



Play H.264 Files



3G Mobile Remote Surveillance

Supports mobile phone for remote monitoring



3G



DVR or NDR



LCD



Motion Detection Recording

Motion grid 44*36 each channel, 8 sensitivities



Recording



VGA

VGA outputs 1920x1080p (NDR 104)

VGA outputs 1920x1080i (DVR 304/308/316)



VGA



1920x1080p



NRF

Noise Reduction Filter Function



NRF OFF



NRF ON



Power Saving design

Setup the time you want, Saving power 20% Up



Normal



Backlight lower



FTP

Supports FTP to download image file



DVD / RW

Built-in DVD Burner





NDR104

NDR Series

Hybrid H.264 NDR

Real time Full D1 pure Hybrid NDR



Features

- Full D1 real-time H.264 recording and playback.
- Pure hybrid, IP camera or analog camera configurable for each channel
- Analog camera*4 or IP cameras*4 or Mixed.
- HDMI compliant and VGA output at 1080p, built-in 3D intellectual motion adoptive refinement and vivid image enhancement engines.
- HTTP web-based interface including NDR configuration, PTZ control, playback, and live monitoring.
- NDRs cascaded are allowed for controlling via TCP/IP network for easy-cabling configuration.
- Master and slave NDRs design allows distributed quick accessing tables for pre-programmed IP cameras and NDRs.
- 3G mobile phone solutions provided
- Resolution, frame rate, and video quality configurable for each channel
- WS-Discovery for quick IP setup of IP cameras and NDRs.
- LCD monitor backlight power saving design.

Dimensions 434 mm x 364.3 x 52.8 mm

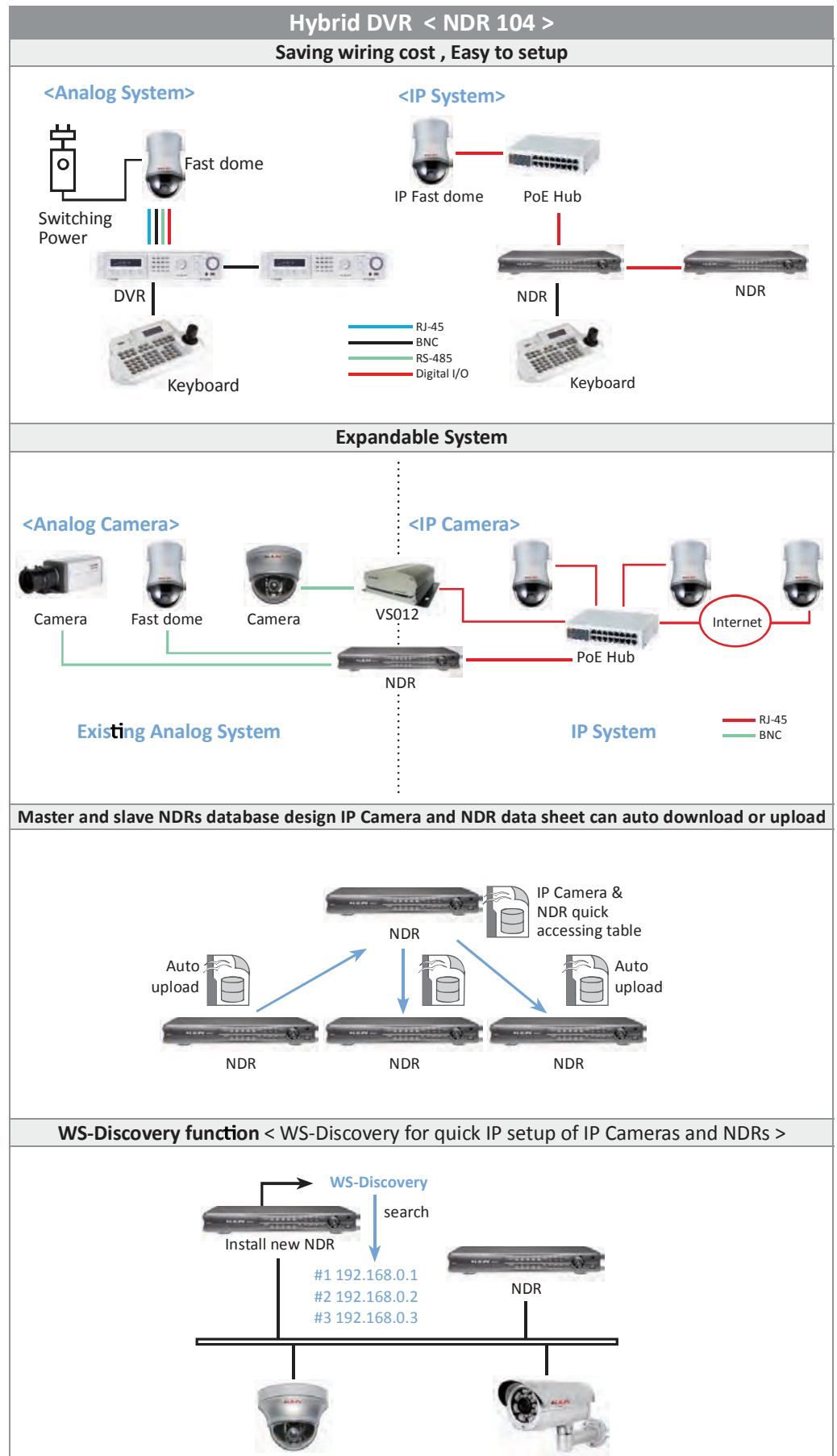


HYBRID NDR		
Real time Full D1 pure Hybrid		
Model		NDR 104
Recording	Recording	SATA HDD: internal * 2 (A)
Recording mode	Recording mode	External alarm / motion detection / schedule / manual / weighted recording
	Video source	Analog camera*4 or IP cameras*4 or Mixed.
	Speed	PAL: Full D1 100 FPS/Sec at 720 * 576 NTSC: Full D1 120 FPS/Sec at 720 * 480
	Resolution	Full D1: 720 * 576 (PAL) 720*480 (NTSC) / CIF: 320 * 288 (PAL) 320 * 240 (NTSC)
	Schedule	7 day * 24 hrs time table, recording mode configurable
Backup	Backup	USB 2.0 flash disk / HTTP file download / Audio supported
	DVD/RW	External USB DVD/RW
Playback	Playback	H.264 AVC video
	Speed	FR: 2x, 4x, 8x, 16x, 32x, 64x FF: 2x, 4x, 8x, 16x, 32x, 64x
Video Input	Compression	H.264 AVC and JPEG
	Video Input	Analog cameras and/or IP cameras
	Camera Name	12 characters
Video Output	Live video	PAL: 100 FPS/Sec NTSC: 120 FPS/Sec
	Video Output	BNC * 2
	VGA output	3D intellectual motion adoptive refinement with vivid image enhancement VGA engine
	HDMI	Up to 1920 * 1080p
Multiplexer	Backlight saving	LCD backlight saving mode
	Multiplexer	Sequence / digital zoom / freeze
	Digital zoom	ROI for 5X and 9X and playback mode
	Split screen	4
	Spot monitor	Live sequence or alarm switching
Management	Reports	Full alarm, configuration, and operation reports exporting over HTTP or USB
	Authentication	User authentication with feature configurable
	Diagnostic	NDR Internal temperature, fan failure detection, and HDD I/O speed
	Recording day	Dynamic recording day calculation
Alarm/event	Alarm/event	Alarm in * 4 and alarm out * 2 (NO/NC)
	Motion	Motion grid 12*12 each channel, 8 sensitivities
	Event	External alarm, video loss, stop recording, power recovery, motion detection, schedule, log on, HDD format
	Email	Alarm notification with JPEG attachments

HYBRID DVR		
Accessories	Accessories	Remote controller addressable up to 255 NDRs
	P/T/Z protocol	LILIN MLP2 and Pelco over HTTP/ONVIF/RS-485
	Keyboards	PIH-931D keyboard for controlling NDR/IP cameras over network
	IR receiver	Extra IR extension connector
	Mouse	USB / PS-2, drag-n-drop, right-mouse-click
	Audio	G.711 audio, RCA*1, 0.7Vp-p, 8KHz, 16bit
Network	Remote control	Yes
	Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DDNS / PPPoE / DNS / NTP
	Web	Live / event log & time search playback / AVI / snapshot
	NDR status	HTML NDR status
Software	IPScan	WS-Discovery and IPScan supported, easy-to-setup for IP address
	BackupManager	Multiple NDRs FTP file download and multi-channel playback
	Mobile phone	iPhone, and Android mobile phone supported
Others	WDT	Hardware watchdog timer
	DST	Daylight saving time
	Multilanguage	English, Chinese, Spanish, Danish, Swiss, Norwegian, Arabic, Japanese, German, French, Polish, Portuguese, Vietnam, Italian
	CPU/OS	32-bit RISC Processor, ARM926 SoC 324 MHz, Linux 2.6 kernel
Power	Power	DC 12V, 4.2A, 48W
	Working Env.	Temp: 0°C ~ +50°C / Humidity: 0%~80%
	Dimension	434 mm x 364.3 * 52.8 mm (rackmountable)
	Weight	3.8 Kg (w/o HDD)



Hybrid DVR





DVR516D / 516

DVR Series

H.264 Real-time Full D1

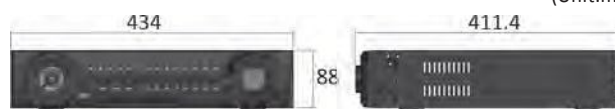


Features

- H.264 real-time Full D1 live, D1 120 FPS recording and playback .
- VGA outputs at 1920 * 1080i, built-in 3D intellectual motion adoptive refinement and vivid image enhancement engines.
- HTTP web-based interface including DVR configuration, PTZ control, playback, and live monitoring.
- Concurrent multiple channel playback for 16-channel.
- 3G mobile phone solutions provided.
- Resolution, frame rate, and video quality configurable for each group channel.
- LCD Power saving design.
- Support Free CMX.
- Analog video looping.
- Easy-to use Jog-and-shuttle button operation.
- Design with 2U rack-mount chassis.
- Slim DVD R/W support (Optional).

Dimensions 434(W) * 411.4(D) * 88(H)

(Unit:mm)



DVR		
Name	H.264 Real-time Full D1	
Model	DVR516D/ 516	
	D: Internal SATA HDD * 2 with built-in Slim DVD/RW -: Internal SATA HDD * 2	
Recording	SATA HDD: internal * 2	
Recording mode	Recording mode	External alarm / motion detection / schedule / manual
	Resolution	Full D1: 720 * 576 (PAL) 720*480 (NTSC) / CIF: 320 * 288 (PAL) 320 * 240 (NTSC)
	Recording NTSC	D1 120 / CIF 480 FPS
	Recording PAL	D1 100 / CIF 400 FPS
	Schedule	7 day * 24 hrs time table, recording mode configurable
Backup	Backup	USB 2.0 flash disk / HTTP file download / Audio supported
	DVD/RW	Slim DVD/RW or External USB DVD/RW
Playback	Playback	H.264 AVC video
	Speed	FR: 2x, 4x, 8x, 16x, 32x, 64x FF: 2x, 4x, 8x, 16x, 32x, 64x
	Compression	H.264 AVC and JPEG
Video Input	Video Input	BNC * 16 (1Vp-p, 75W)
	Camera Name	12 characters
	Video Looping	BNC * 16 (1Vp-p, 75W)
Video Output	Live video	PAL: 400 FPS/Sec NTSC: 480 FPS/Sec
	Video Output	BNC * 1 + Spot monitor
	VGA output	3D intellectual motion adoptive refinement with vivid image enhancement VGA engine up to 1920 * 1080i
Multiplexer	Backlight saving	LCD backlight saving mode
	Multiplexer	Sequence / freeze
	Split screen	4, 9, 13, 16
Management	Spot monitor	Spot with Hex/quad output, sequence, keyboard control, and alarm switching
	Reports	Full alarm, configuration, and operation reports exporting over HTTP or USB
	Authentication	User authentication with feature configurable
Alarm/event	Recording day	Dynamic recording day calculation
	Alarm/event	DI * 8 and DO * 2 (NO/NC)
	Motion	Motion grid 44*36 each channel, 8 sensitivities
	Event	External alarm, video loss, power recovery, motion detection, schedule, log on, HDD format
	Email	Alarm notification with JPEG attachments

DVR		
Accessories	Accessories	Remote controller addressable up to 255 DVRs
	P/T/Z protocol	LILIN MLP2 and Pelco RS-485
	Keyboards	PIH-931D keyboard
	IR receiver	Extra IR extension connector
	RS-485/RS-232	RS-485 keyboard connector * 2 , 12V output, RS-485 PTZ output * 1
	Jog & Shuttle	FF, FR, Step, instant rewind, menu setup
	Mouse	USB, right-mouse-click
	Audio	G.711 audio, 0.7Vp-p, 8KHz, 16bit
Network	Audio In/out	RCA 4 in , 1 output
	Remote control	Yes
	Network	Direct Internet browser access / multiple users access
	Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DDNS / PPPoE / DNS / NTP
	Web	Live / event log & time search playback / AVI / snapshot
	Browser	Internet Explorer, Safari, FireFox, and Chrome
	DVR status	HTML DVR status
	IPScan	IPScan supported, easy-to-setup for IP address
Software	BackupManager	Multiple DVRs FTP file download and multi-channel playback
	Mobile phone	iPhone, iPad, Android mobile phone supported
Others	WDT	Hardware watchdog timer
	DST	Daylight saving time
	Multilanguage	English, Chinese, Spanish, Danish, Swiss, Norwegian, Arabic, Japanese, German, French, Polish, Portuguese, Simplified Chinese, Vietnam, Italian
	CPU/OS	32-bit RISC Processor, ARM926 SoC 324MHz, Linux 2.6 kernel
Power	Power	DC 12V, 5.0A, 60W
	Working Env.	Temp: 0°C ~ +50°C / Humidity: 0%~80%
	Dimension	434mm * 411.4mm * 88mm
	Weight	4.7 Kg (w/o HDD)



DVR508D / 508

DVR Series

H.264 Real-time Full D1



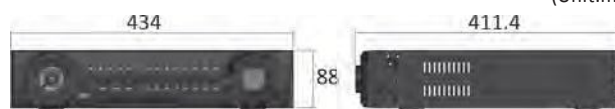
DVR		
Name		H.264 Real-time Full D1 DVR508D/ 508
Model		D: Internal SATA HDD * 2 with built-in Slim DVD/RW -: Internal SATA HDD * 2 SATA HDD: internal * 2
Recording		External alarm / motion detection / schedule / manual
Recording mode	Recording mode	Full D1: 720 * 576 (PAL) 720*480 (NTSC) / CIF: 320 * 288 (PAL) 320 * 240 (NTSC)
	Resolution	D1 120 / CIF 240 FPS
	Recording NTSC	D1 100 / CIF 200 FPS
	Recording PAL	7 day * 24 hrs time table, recording mode configurable
	Schedule	USB 2.0 flash disk / HTTP file download / Audio supported
Backup	Backup	Slim DVD/RW or External USB DVD/RW
	Playback	H.264 AVC video
Playback	Speed	FR: 2x, 4x, 8x, 16x, 32x, 64x FF: 2x, 4x, 8x, 16x, 32x, 64x
	Compression	H.264 AVC and JPEG
	Video Input	BNC * 8 (1Vp-p, 75W)
Video Input	Camera Name	12 characters
	Video Looping	BNC * 8 (1Vp-p, 75W)
	Live video	PAL: 200 FPS/Sec NTSC: 240 FPS/Sec
Video Output	Video Output	BNC * 1 + Spot monitor
	VGA output	3D intellectual motion adoptive refinement with vivid image enhancement VGA engine up to 1920 * 1080i
	Backlight saving	LCD backlight saving mode
Multiplexer	Multiplexer	Sequence / freeze
	Split screen	4, 9
	Spot monitor	Spot with Nine/quad output, sequence, keyboard control, and alarm switching
Management	Reports	Full alarm, configuration, and operation reports exporting over HTTP or USB
	Authentication	User authentication with feature configurable
	Recording day	Dynamic recording day calculation
Alarm/event	Alarm/event	DI * 8 and DO * 2 (NO/NC)
	Motion	Motion grid 44*36 each channel, 8 sensitivities
	Event	External alarm, video loss, power recovering, motion detection, schedule, logon, HDD format
	Email	Alarm notification with JPEG attachments

Features

- H.264 real-time Full D1 live, D1 120 FPS recording and playback .
- VGA outputs at 1920 * 1080i, built-in 3D intellectual motion adoptive refinement and vivid image enhancement engines.
- HTTP web-based interface including DVR configuration, PTZ control, playback, and live monitoring.
- Concurrent multiple channel playback for 8-channel.
- 3G mobile phone solutions provided.
- Resolution, frame rate, and video quality configurable for each group channel.
- LCD Power saving design.
- Support Free CMX.
- Analog video looping.
- Easy-to use Jog-and-shuttle button operation.
- Design with 2U rack-mount chassis.
- Slim DVD R/W support (Optional).

Dimensions 434(W) * 411.4(D) * 88(H)

(Unit:mm)



DVR		
Accessories	Accessories	Remote controller addressable up to 255 DVRs
	P/T/Z protocol	LILIN MLP2 and Pelco RS-485
	Keyboards	PIH-931D keyboard
	IR receiver	Extra IR extension connector
	RS-485/RS-232	RS-485 keyboard connector * 2 , 12V output, RS-485 PTZ output * 1
	Jog & Shuttle	FF, FR, Step, instant rewind, menu setup
	Mouse	USB , right-mouse-click
	Audio	G.711 audio,0.7Vp-p, 8KHz,16bit
Network	Audio In/out	RCA 4 in , 1 output
	Remote control	Yes
	Network	Direct Internet browser access / multiple users access
	Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DNS / PPPoE / DynDNS / NTP
	Web	Live / event log & time search playback / AVI / snapshot
	Browser	Internet Explorer, Safari, FireFox, and Chrome
	DVR status	HTML DVR status
	IPScan	IPScan supported, easy-to-setup for IP address
Software	BackupManager	Multiple DVRs FTP file download and multi-channel playback
	Mobile phone	iPhone, iPad, Android mobile phone supported
Others	WDT	Hardware watchdog timer
	DST	Daylight saving time
	Multilanguage	English, Chinese, Spanish, Danish, Swiss, Norwegian, Arabic, Japanese, Germany, French, Polish, Portuguese, Simplified Chinese, Vietnam, Italian
	CPU/OS	32-bit RISC Processor, ARM926 SoC 324 MHz, Linux 2.6 kernel
Power	Power	DC 12V, 5.0A, 60W
	Working Env.	Temp: 0°C ~ +50°C / Humidity: 0%~80%
	Dimension	434mm * 411.4mm * 88mm
	Weight	4.7 Kg (w/o HDD)



DVR 316

DVR Series

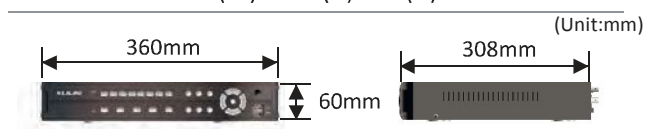
H.264 Real-time Full D1



Features

- H.264 real-time Full D1 live, D1 120 FPS recording and playback .
- VGA outputs at 1920 * 1080i, built-in 3D intellectual
- motion adoptive refinement and vivid image enhancement engines.
- HTTP web-based interface including DVR configuration, PTZ control, playback, and live monitoring.
- Concurrent multiple channel playback for 16-channel.
- 3G mobile phone solutions provided.
- Resolution, frame rate, and video quality configurable for each group channel.
- LCD Power saving design.
- Support Free CMX

Dimensions 360(W) x 308(D) x 60(H)mm



DVR		
Name		H.264 Real-time Full D1
Model		DVR316
Recording		SATA HDD: internal * 2
Recording	Recording mode	External alarm / motion detection / schedule / manual
	Video source	Analog * 16
	Resolution	Full D1: 720 * 576 (PAL) 720*480 (NTSC) / CIF: 320 * 288 (PAL) 320 * 240 (NTSC)
	Recording NTSC	D1 120 / CIF 480 FPS
	Recording PAL	D1 100 / CIF 400 FPS
	Schedule	7 day * 24 hrs time table, recording mode configurable
Backup	Backup	USB 2.0 flash disk / HTTP file download / Audio supported
	DVD/RW	External USB DVD/RW
Playback	Playback	H.264 AVC video
	Speed	FR: 2x, 4x, 8x, 16x, 32x, 64x FF: 2x, 4x, 8x, 16x, 32x, 64x
	Compression	H.264 AVC and JPEG
	Video Input	Analog cameras
Video	Camera Name	12 characters
	Live video	PAL: 400 FPS / NTSC: 480 FPS
	Video Output	BNC * 1 + Spot monitor
	VGA output	3D intellectual motion adoptive refinement with vivid image enhancement VGA engine up to 1920 * 1080i
	Backlight saving	LCD backlight saving mode
Multiplexer	Multiplexer	Sequence / freeze
	Digital zoom	-
	Split screen	4, 9, 16
	Spot monitor	Yes
Management	Reports	Full alarm, configuration, and operation reports exporting over HTTP or USB
	Authentication	User authentication with featureconfigurable
	Recording day	Dynamic recording day calculation
Alarm/event	Alarm/event	DI * 8 and DO* 2 (NO/NC)
	Motion	Motion grid 44*36 each channel, 8 sensitivities
	Event	External alarm, video loss, power recovery, motion detection, schedule, log on, HDD format
	Email	Alarm notification with JPEG attachments

DVR		
Accessories	Accessories	Remote controller addressable up to 255 DVRs
	P/T/Z protocol	LILIN MLP2 and Pelco RS-485
	Keyboards	PIH-931D keyboard
	IR receiver	Extra IR extension connector
	Mouse(Optional)	USB , right-mouse-click
	Audio	G.711 audio,0.7Vp-p, 8KHz,16bit
Network	Audio In/out	RCA 4 in , 1 output
	Remote control	Yes
	Network	Direct Internet browser access / multiple users access
	Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DDNS / PPPoE / DNS /NTP
	Web	Live / event log & time search playback / AVI / snapshot
	DVR status	HTML DVR status
Software	IPScan	IPScan supported, easy-to-setup for IP address
	BackupManager	Multiple DVRs FTP file download and multi-channel playback
	Mobile phone	iPhone, and Android mobile phone supported
Others	WDT	Hardware watchdog timer
	DST	Daylight saving time
	Multilanguage	English, Chinese, Spanish, Danish, Swiss, Norwegian, Arabic, Japanese, German, French, Polish, Portuguese, Simplified Chinese, Vietnamese, Italian
	CPU/OS	32-bit RISC Processor, ARM926 SoC 324 MHz, Linux 2.6 kernel
Power	Power	DC 12V, 5.0A, 60W
	Working Env.	Temp: 0°C ~ +50°C / Humidity: 0%~80%
	Dimension	360mm * 60mm * 308mm
	Weight	3.0 Kg (w/o HDD)



DVR 308

DVR Series

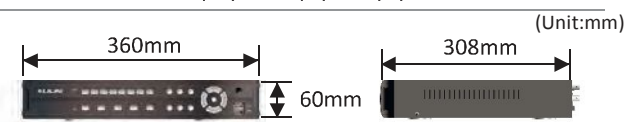
H.264 Real-time Full D1



Features

- H.264 real-time Full D1 live, D1 120 FPS recording and playback .
- VGA outputs at 1920 * 1080i, built-in 3D intellectual motion adoptive refinement and vivid image enhancement engines.
- HTTP web-based interface including DVR configuration, PTZ control, playback, and live monitoring.
- Concurrent multiple channel playback for 8-channel.
- 3G mobile phone solutions provided.
- Resolution, frame rate, and video quality configurable for each group channel.
- LCD Power saving design.
- Support Free CMX

Dimensions 360(W)x 308(D)x 60(H)mm



DVR		
Name		H.264 Real-time Full D1
Model		DVR308
Recording		SATA HDD: internal * 2
Recording	Recording mode	External alarm / motion detection / schedule / manual
	Video source	Analog * 8
	Resolution	Full D1: 720 * 576 (PAL) 720*480 (NTSC) / CIF: 320 * 288 (PAL) 320 * 240 (NTSC)
	Recording NTSC	D1 120 / CIF 240 FPS
	Recording PAL	D1 100 / CIF 200 FPS
	Schedule	7 day * 24 hrs time table, recording mode configurable
Backup	Backup	USB 2.0 flash disk / HTTP file download / Audio supported
	DVD/RW	External USB DVD/RW
Playback	Playback	H.264 AVC video
	Speed	FR: 2x, 4x, 8x, 16x, 32x, 64x FF: 2x, 4x, 8x, 16x, 32x, 64x
	Compression	H.264 AVC and JPEG
Video	Video Input	Analog cameras
	Camera Name	12 characters
	Live video	PAL: 200 FPS / NTSC: 240 FPS
	Video Output	BNC * 1 + Spot monitor
	VGA output	3D intellectual motion adoptive refinement with vivid image enhancement VGA engine up to 1920 * 1080i
Multiplexer	Backlight saving	LCD backlight saving mode
	Multiplexer	Sequence / freeze
	Digital zoom	-
	Split screen	4, 9
	Spot monitor	Yes
Management	Reports	Full alarm, configuration, and operation reports exporting over HTTP or USB
	Authentication	User authentication with featureconfigurable
	Recording day	Dynamic recording day calculation
Alarm/event	Alarm/event	DI * 8 and DO* 2 (NO/NC)
	Motion	Motion grid 44*36 each channel, 8 sensitivities
	Event	External alarm, video loss, power recovering, motion detection, schedule, logon, HDD format
	Email	Alarm notification with JPEG attachments

DVR		
Accessories	Accessories	Remote controller addressable up to 255 DVRs
	P/T/Z protocol	LILIN MLP2 and Pelco RS-485
	Keyboards	PIH-931D keyboard
	IR receiver	Extra IR extension connector
	Mouse(Optional)	USB , right-mouse-click
	Audio	G.711 audio,0.7Vp-p, 8KHz,16bit
Network	Audio In/out	RCA 4 in , 1 output
	Remote control	Yes
	Network	Direct Internet browser access / multiple users access
	Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DDNS / PPPoE / DNS /NTP
	Web	Live / event log & time search playback / AVI / snapshot
	DVR status	HTML DVR status
Software	IPScan	IPScan supported, easy-to-setup for IP address
	BackupManager	Multiple DVRs FTP file download and multi-channel playback
	Mobile phone	iPhone, and Android mobile phone supported
Others	WDT	Hardware watchdog timer
	DST	Daylight saving time
	Multilanguage	English, Chinese, Spanish, Danish, Swiss, Norwegian, Arabic, Japanese, German, French, Polish, Portuguese, Simplified Chinese, Vietnamese, Italian
	CPU/OS	32-bit RISC Processor, ARM926 SoC324 MHz, Linux 2.6 kernel
Power	Power	DC 12V, 5.0A, 60W
	Working Env.	Temp: 0°C ~ +50°C / Humidity: 0%~80%
	Dimension	360mm * 60mm * 308mm
	Weight	3.0 Kg (w/o HDD)



DVR 304

DVR Series

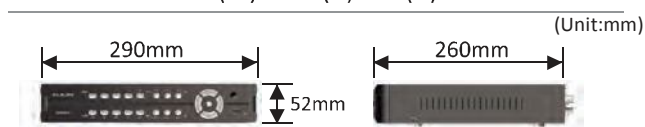
H.264 Real-time Full D1 recording and playback



Features

- H.264 real-time Full D1 live, D1 120 FPS recording and playback .
- VGA outputs at 1920 * 1080i, built-in 3D intellectual motion adoptive refinement and vivid image enhancement engines.
- HTTP web-based interface including DVR configuration, PTZ control, playback, and live monitoring.
- Concurrent multiple channel playback for 4-channel.
- 3G mobile phone solutions provided.
- Resolution, frame rate, and video quality configurable for each channel.
- LCD Power saving design.
- Support Free CMX

Dimensions 290(W) x 260(D) x 52(H)mm



DVR		
Name		H.264 Real-time Full D1
Model		DVR304
Recording		SATA HDD: internal * 1
Recording	Recording mode	External alarm / motion detection / schedule / manual
	Video source	Analog * 4
	Resolution	Full D1: 720 * 576 (PAL) 720*480 (NTSC) / CIF: 320 * 288 (PAL) 320 * 240 (NTSC)
	Recording NTSC	D1 120 / CIF 120 FPS
	Recording PAL	D1 100 / CIF 100 FPS
	Schedule	7 day * 24 hrs time table, recording mode configurable
Backup	Backup	USB 2.0 flash disk / HTTP file download / Audio supported
	DVD/RW	External USB DVD/RW
Playback	Playback	H.264 AVC video
	Speed	FR: 2x, 4x, 8x, 16x, 32x, 64x FF: 2x, 4x, 8x, 16x, 32x, 64x
	Compression	H.264 AVC and JPEG
Video	Video Input	Analog cameras
	Camera Name	12 characters
	Live video	PAL: 100 FPS / NTSC: 240 FPS
	Video Output	BNC * 1
Multiplexer	VGA output	3D intellectual motion adoptive refinement with vivid image enhancement VGA engine up to 1920 * 1080i
	Backlight saving	LCD backlight saving mode
	Multiplexer	Sequence / digital zoom / freeze
	Digital zoom	ROI for 4X and 9X with PIP
	Split screen	4, PIP
Matrix	Spot monitor	No
		No
Management	Reports	Full alarm, configuration, and operation reports exporting over HTTP or USB
	Authentication	User authentication with feature configurable
	Recording day	Dynamic recording day calculation
Alarm/event	Alarm/event	DI * 4 and DO * 2 (NO/NC)
	Motion	Motion grid 12*12 each channel, 8 sensitivities
	Event	External alarm, video loss, stop recording, power recovering, motion detection, schedule, logon, HDD format
	Email	Alarm notification with JPEG attachments

DVR		
Accessories	Accessories	Remote controller addressable up to 255 DVRs
	P/T/Z protocol	LILIN MLP2 and Pelco RS-485
	Keyboards	None
	IR receiver	None
	Mouse(Optional)	USB / PS-2, drag-n-drop, right-mouse-click, mouse wheel.
	Audio	G.711 audio, 0.7Vp-p, 8KHz, 16bit
	Audio In/out	RCA 1 in, 1 output
Network	Remote control	Yes
	Network	Direct Internet browser access / multiple users access
	Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DDNS / PPPoE / DNS / NTP
	Web	Live / event log & time search playback / AVI / snapshot
	DVR status	HTML DVR status
	IPScan	IPScan supported, easy-to-setup for IP address
Software	BackupManager	Multiple DVRs FTP file download and multi-channel playback
	Mobile phone	iPhone, and Android mobile phone supported
Others	WDT	Hardware watchdog timer
	DST	Daylight saving time
	Multilanguage	English, Chinese, Spanish, Danish, Swiss, Norwegian, Arabic, Japanese, German, French, Polish, Portuguese, Simplified Chinese, Vietnamese, Italian
	CPU/OS	32-bit RISC Processor, ARM926 SoC324 MHz, Linux 2.6 kernel
Power	Power	DC 12V, 4.2A, 48W
	Working Env.	Temp: 0°C ~ +50°C / Humidity: 0%~80%
	Dimension	290 mm * 52mm * 260mm
	Weight	1.5 Kg (w/o HDD)



PSH 100

DVR Series

PSH-100 Stand-alone e-SATA Raid hard disk storage system

Features

- Support RAID-0, RAID-0+1, and NRAID modes
- Easy-to-use without complicate system setting, and Plug-and-play design allows interfacing with a DVR or a PC via SATA cable.



Dimensions 434(W) x 470(D) x 45(H)mm

(Unit:mm)



PSH-100 Stand-alone e-SATA Raid hard disk storage system	
Host Interface	SATA
Host Transfer Rate	150MB / Sec.
Hard Drive	4 x 3.5" SATA Drive
Largest Capacity	RAID-0 up to 2TB, RAID-0+1 up to 1TB
Support Big Drive	Yes
RAID Level	RAID-0 RAID-0+1 NRAID
Support Hot-Swap	Yes
LCD Display	Yes
O.S. Independent	Mac 10.2, Windows 2000/2003/XP, OS Independent (SATA)
Power Supply	AC90~260V Max., 85W
Dimension	434(W) x 470(D) x 45(H)mm
Weight	5.6Kg (W/O HDD)

MATRIX & PERIPHERAL

Matrix & LCD Monitor

Infrared Illuminator / Other Products

Pan/Tilt / Scanner

Keyboard / Infrared Remote Controller



PIH 816III / 832III / 864III / 820III

PMH L17AC / L19AC

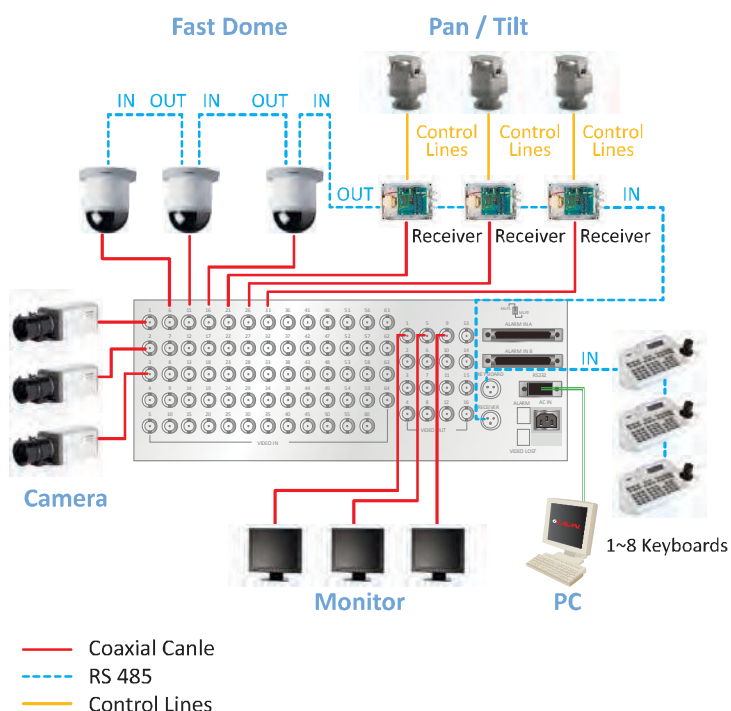
Matrix & LCD Monitor

Matrix &

Peripheral Products

Matrix				
Product Picture				
Model	PIH-816III	PIH-832III	PIH-864III	PIH-820III
Input Voltage	AC 117V / AC230 V			117 / 230Vac
Camera Input	16	32	64	-
Monitor Output	8	8	16	-
Alarm Input	16	32	64	-
Alarm output	1			-
Frequency Response	10Hz to 60 MHz			-
S / N Ratio	Better Than 60 dB			-
Video Output	CVBS 1.0Vp-p 75Ω			-
Keyboard Control	Max. 8 RS-485			-
PC Control	Max 1 RS-232 (External Interface Required)			-
Alarm Contact	NO / NC (D-SUB 37 PIN Female Connector)			-
Weight	5.7 Kg		8.0 Kg	
Dimension	434(W) x 90(H) x 290(D)		434(W) x 135(H) x 290(D)	
RS-485 Max Distance	-		1000m	
DIP Switch Setting	-		1 ~ 64	
Pan & Tilt Output	-		24 / 117 / 230Vac	
Camera Output	-		12Vdc / 24 / 117 / 230 Vac	
Lens Output	-		6 / 12Vdc	

LCD Monitor		
Product picture		
Model No.	PMH-L17AC	PMH-L19AC
Panel Size	17" LCD	19" LCD
Resolution	1280 x 1024 @ 75Hz	
Pixel Pitch	0.264 (H) x 0.264 (V) mm	
Contrast rate	500 : 1	
Brightness	300 cd/m2 (Max)	
Display Rate	4 : 3	
View Angle	L / R: 70 / 70 , U / D: 70 / 60	L / R: 70 / 70 , U / D: 75 / 60
Response Time	Tr + Tf = 8 ms	
Video Signal	Analog RGB Signal , Composite Signal 0.6 ~ 1Vp-p / 75 ohm , Y: 1Vp-p , C: 0.3Vp-p	
Scan Frequency	H: 31K ~ 81KHz , V: 56 ~ 75Hz	
Power Failure Auto Recovery	Auto Power On and Default in AV1	
OSD Control	Auto Config , Brightness , Contrast , Color-Temp , Position , Image Quality , Menu	
OSD Language	English , French , Deutsch , Spanish , Italian , Traditional Chinese(6)	
Input Connector	D-Sub x1Video Input (BNC) x 1Video Input (RCA) x 1Audio Input (Φ 3.5mm Jack) x 1 (for PC Input) Power Input(DC 12V / 4.16A) x 1	D-Sub x1Video Input (BNC) x 2Video Input (RCA) x 1Audio Input (RCA, Stereo) x 1 (L+R x 2, 1 set)Audio Input (Φ 3.5mm Jack) x 1 (for PC Input) Power Input(DC 12V / 4.16A) x 1
Output Connector	No	Video Output (BNC) x 1
Panel Protection	Anti-glare , Hard coating (3H)	
Audio Speaker	2W x 2	
Looping 75 ohm	No	Yes (AV3)
VESA Spec.	75 x 75 mm	
Power	DC 12V , 4.16A	
Power Consumption	50W	
Temperature	5°C ~ + 40°C	
Humidity	20% ~ 85% RH	
Unit Dimension	400 (W) x 385 (H) x 160 (D) mm	430 (W) x 425 (H) x 160 (D) mm
Net Weight	5 Kg	5.35 Kg
Accessory	AC Power Cord , D-Sub to D-Sub Cable , Adapter , User's Manual CD	





PRH 5218 / 5440 / 5840

Matrix &
Peripheral Products



Infrared Illuminator

Infrared Illuminator				
Product Picture				
Model		PRH-5218	PRH-5440	PRH-5840
Power Input Voltage		DC12V ±10%	AC24V ±10%	AC90 ~ 260V max.
Radiant Distance		18m (59ft)	40m (131ft)	
Window		Φ59	Φ88	
Infrared LED	Wave Length	850nm		
	Angle	30°	20°	
	Quantity	21 units	12 units	
	Power On	Sensor Auto Control		
IP Rating		IP68	IP66	
Mounting		Bottom		
Construction		Aluminum		
Power Consumption		2.0W	7.2W	
Operating Temperature		-20°C ~ + 60°C (-4°F ~ + 140°F)		
Dimension		78mm (W) x 66.5mm (H) x 107mm (D)	Φ100 x 185mm	
Weight		300g	1060g	



PIH 804III / 810III / 6001 / 6002

Other Products

	Data Distributor	Alarm Extender	Video Amplifier	Video Distributor
Product Picture				
Model	PIH-804III	PIH-810III	PIH-6001	PIH-6002
Input Voltage	12Vdc	90~240 Vac	117 / 230Vac	
System	-	-	NTSC / PAL	
Current	-	-	-	
Output Voltage	-	-	-	
Telemetry Output	4 x RS-485	1 x RS-485	-	
Telemetry Input	1 x RS-485	1 x RS-485	-	
RS-485 Max Distance	1000m	-	-	
DIP Switch Setting	-	1 ~ 64	-	
Gain / HF Frequency	-	-	10Hz ~ 4.5MHz (±3dB)	10Hz ~ 15MHz
Video Output	-	-	BNC 0.4 ~ 2.0Vp-p 75Ω	4 x 1.0 ~ 2.0Vp-p 75Ω
Video Input	-	-	BNC 1.0Vp-p 75Ω	1 x 1.0 ~ 2.0Vp-p 75Ω
Maximum Video Gain	-	-	12dB (±3dB)	1dB
Frequency Bandwidth	-	-	4.5MHz	1Hz ~ 15MHz
Weight	0.4Kg	-	1.3Kg	1.25Kg



PIH 302 / 303 / 305S

Matrix &
Peripheral Products





Pan/Tilt

	Indoor Pan/Tilt	Indoor Scanner	Outdoor Pan/Tilt
Product Picture			
Model	PIH-302	PIH-305S	PIH-303
Input Voltage	24 / 117 / 230Vac		
Pan Speed	6°/ sec		
Pan Travel	355°,Adjustable limit stops	350°,Adjustable limit stops	355°, Adjustable limit stops
Tilt Speed	4°/ sec	-	3°/ sec
Tilt Travel	+30°Up, -40°Down	90°Down	+50°Up, -50°Down
Maximum Load	Pan 7KgTilt 4Kg	7Kg	15 Kg
Duty Cycle	Pan: continuous, Tilt: intermittent	continuous	Pan : continuous, Tilt: intermittent
Seals	Dust-proof Gasket seals		
Weight	1.9Kg	0.9Kg	5.7Kg



PIH 301C / 302C / 306 / 307 / 308

Scanner




	Outdoor (301C) / Indoor (302C) Pan / Tilt Control		Scanner Control	Scanner Control 5-Channel	Multiple Pan/Tilt/ Lens Control
Product Picture					
Model No.	PIH-301C	PIH-302C	PIH-306	PIH-307	PIH-308
Input Voltage	117 / 230Vac				24 / 117 / 230Vac
Output Voltage	24 / 117 / 230Vac				
Control Buttons	Auto / Off / Manual, Left / Right / Up / Down		Auto / Off / Manual, Left / Right		
Construction	Steel,Silver Gray Baked Enamel Finish				
Lens Output Voltage	-				8~16Vac(adjustable)
Lens Control	-				Zoom, Focus, Iris
Number of PTZ	-				5 x PTZ
Weight	1.25Kg		1.25Kg	2.20Kg	4.30Kg



PIH 931D / 932T / 800III / PIH 800EK

Matrix &
Peripheral Products



Keyboard (For all Fast Dome Series)

Multi-functional 3D/2D Keyboard Controller		Keyboard Controller	Keyboard Expander
Product Picture			
Model No.	PIH-931D	PIH-932T	PIH-800EK
Joystick	3 Axis (Pan/ Tilt / Zoom)	2 Axis (Pan / Tilt)	-
Movement Speed control	Pan:8 Steps, Tilt:8 Steps, Zoom:16 Steps	Pan:8 Steps Tilt:8 Steps	-
Data Communication	RS-485 Standard (Format N, 8, 1, Baud rate 9600bps)		RS-485, 9600 Baud
Connector	RJ-45 / 8Pin (Format N, 8, 1, Baud rate 9600bps)		-
Control Mode	PTZ / MATRIX / DVR		-
LCD Display	20 Characters x 4 Lines		-
Keyboard Keypad	Total 54 keys 0~9 Numeric Keys, CAM, MON, MATRIX, DVR, PRESET, CLR, ENT, SET, ESC, ALARM RESET, KEYLOCK, SEQ, AUTO PAN and SHIFT Keys, Lens Control Keys, DVR control Keys, Receiver Control Keys, Function Keys		-
Input Voltage	DC 12V±10% / 250mA		DC 12V
Operating Temperature	-5°C ~ + 60°C (23°F ~ 140°F)		-5°C ~ +60°C
Input Voltage	DC 12V±10% / 250mA		DC12V
DIP Switch Setting	-		Direct to Dome / Master/ Slave
Telemetry Output	-		1 x RS-485
Telemetry Input	-		1 x RS-485
RS-485 Max Distance	-		1000m
Power Consumption	3W		250mA
Control Interface	-		RS-485(1 Input / 1 Output)
Baud Rate	-		9600
LED Indicator	-		Green: Power, Red: Transmission, Yellow: Receiving
Connection Capacity	-		Keyboard Controller: 4, Fast Dome Camera: 64
Diameter(mm)	340(W) x 194(D) x 103(H) mm		92(L) x 73(W) x 27(H)
Weight	1350 g	1300 g	60g



TX 212 / RX 212

Infrared Remote Controller (For all Fast Dome Series)

Infrared Remote Controller		Infrared Receiver
Product Picture		
Model	TX212	RX212
Power Supply	DC 3.0V [AAA(UM-4) battery x 2]	DC 12V ±10%
Power Consumption	120 mW	1W
Ambient Operation Temperature	0°C ~ + 40°C (32°F ~ 104°F)	-10°C ~ + 50°C (14°F ~ 122°F)
Operating Humidity	0% ~ 90%	
Infrared Beam Spread	30°	
Infrared Radiant Distance	8 M	
Infrared Frequency	38 KHz	
Communication Control Interface	-	
Dimensions	50mm (W) x 22mm (H) x 175mm (D)	72mm (W) x 28mm (H) x 100mm (D)
Weight	80g (not including battery)	60g

HOUSING & BRACKET

Camera Housing / Camera Bracket

Camera Bracket

Speed Dome Bracket



PIH 5040S / 5063 / 5084

Housing & Bracket





Camera Housing

	Outdoor Housing		
Product Picture			
Model	PIH-5040S	PIH-5063	PIH-5084
Mounting	Bottom		
Construction	Aluminum		
Window Dimension Glass Thickness	74(W) x 64 (H) / 5mm	Φ110 Heat Resistant Glass / 5mm	Φ78 Heat Resistant Glass / 3mm
Dimension	140mm(W) x 115mm(H) x 373mm(D)	Housing : Φ134 x 318mm (L) Bracket : 211.5mm (L)	Housing : Φ112 x 384mm (L) Bracket : 211.5mm (L)
Weight	1.3kg	2.0kg	1.9kg
Ext. Model	-	PIH-5063 : AC230V (Heater & Blower) PIH-5064 : AC24V (Heater & Blower) PIH-5067 : AC117V (Heater & Blower)	PIH-5084 : AC24V (Heater) PIH-5088 : AC90~260V (Heater)



PRH 5480 / 5880 / 5480M / 5880M / 54200 / 58200 PRH 9480 / 9880

IR Housing

	Infrared Illuminator Housing						Invisible Infrared Illuminator Housing	
Product Picture	 Inside Look							
Model	PRH-5480	PRH-5880	PRH-5480M	PRH-5880M	PRH-54200	PRH-58200	PRH-9480	PRH-9880
Power Input Voltage	AC24V ±10%	AC90 ~ 260V max.	AC24V ±10%	AC90 ~ 260V max.	AC24V ±10%	AC90 ~ 260V max.	AC24V ±10%	AC90 ~ 260V max.
Radiant Distance	100m		60m		200m		80m	
Window	Φ110 Heat Resistant Glass							
Glass Thickness	3mm							
Infrared LED	Wave Length		850nm				940nm	
	Angle		10° + 30°		30°		6° + 30°	
	Quantity		11 units (10°) + 6 units (30°)		17 units		5 units (6°) + 2 units (30°)	
	Power On		Sensor Auto Control, Adjustable Control Point					
Blower Control	On:35℃ Off:25℃							
Heater Control	On:15℃ Off:25℃							
Suitable Camera and Lens	Max. 200mm length							
IP Rating	IP66							
Mounting	Bottom							
Construction	Aluminum							
Power Consumption	22W				32W			
Operating Temperature	-20℃ ~ + 60℃ (-4°F ~ + 140°F)							
Dimension	Housing : Φ134 x 318mm (L), Bracket : 211.5mm (L)							
Weight	3500g							



PIH 500 / 500L / 5001N / 5002L / 5005M / PIH 5004 / 5004L

Housing & Bracket

Camera Bracket

Bracket							
Product Picture							
Name	Camera Bracket						
Model	PIH-500	PIH-500L	PIH-5001N	PIH-5002L	PIH-5005M	PIH-5004	PIH-5004L
Adjustment	Pan: 360° Tilt: ±90°			Pan & Tilt	Pan: 360° Tilt: ±90°	Pan & Tilt	Pan & Tilt
Maximum Load	2kg			6kg	5kg	10kg	10kg
Construction	ABS Injection		Aluminum			Aluminum, Light Gray Textured	
Dimension(mm)	76 (W) x 153 (H) x 73 (D)	76 (W) x 218 (H) x 73 (D)	123 (L) x 45 (Φ)	202 (W) x 252 (H) x 24 (D) x 119 (Φ)	164 (L) x 119 (Φ)	85 (W) x 309 (H) x 99 (D)	61 (W) x 240 (H) x 83 (D)
Weight	80g	100g	110g	700g	280g	600g	300g



PIH WM / 26WM / BTR01S / 5003 / BTS02S















Camera Bracket

Bracket					
Product Picture					
Name	Camera Bracket			Scanner Bracket	Corner/ Pole Mount
Model	PIH-WM	PIH-26WM	BTR01S	PIH-5003	BTS02S
Adjustment	-	-	Pan & Tilt	Pan	-
Maximum Load	5kg	2kg	10kg	10kg	15kg
Construction	Aluminum, Creamy White Textured	ABS Injection	Aluminum	Aluminum, Light Gray Textured	Aluminum, Silver Gray Baked Enamel Finish
Dimension(mm)	132 (W) x 111 (H) x 169 (D)	120 (W) x 65 (H) x 144 (D)	262 (W) x 287 (H) x 39 (D)	85 (W) x 309 (H) x 99 (D)	190(W) x 130 (H) x 105 (D)
Weight	600g	95g	1000g	450g	500g



PIH 303B / 303PEX / 303P / PIH-510 CPM / PIH Z6 / 520HB / 76WM / 303BX













Fast Dome Bracket

Bracket								
Product Picture								
Name	Wall Mount	-	Pendant Mount	Corner/ Pole Mount	-	Pendant Mount	Wall Mount	Wall Mount
Model	PIH-303B	PIH-303PEX	PIH-303P	PIH-510 CPM	PIH-Z6	PIH-520HB	PIH-76WM	PIH-303BX
Maximum Load	30kg	-	30kg	25kg	-	-	5kg	30kg
Construction	Aluminum, Light Gray Textured					Aluminum		Steel, Light Gray Textured
Dimension(Mm)	148(W) x 385 (H) x 175 (D)	300(H)	148(W) x 385 (H) x 175 (D)	275(W) x 91 (H) x 182(D)	300(H)	284(L)x204(W) x149.5(H)	150(W) x110 (H) x 171 (D)	180(W) x 318.5 (H) x 214 (D)
Weight	1.2kg	-	1.1kg	0.5kg	-	2.7Kg	0.5kg	3.9kg
Schematic Drawing		-			-			
Matched Model	PIH 7625DW / PIH 7625DH / 7630DH / 7635DH / ST 125 / 130 / 135	PIH 7625DW / PIH 7625DH / 7630DH / 7635DH / ST 125 / 130 / 135	PIH 7625DW / PIH 7625DH / 7630DH / 7635DH / ST 125 / 130 / 135	PIH 520L / PIH 510L	PIH 7625DW	PIH 7525DH / 7530DH / 7535DH / ST 025 / 030 / 035	PIH 7625DH / 7630DH / 7635DH / ST 125 / 130 / 135	PIH 7625DW



PIH 520L / 520LB / CPM / 520G / 510L / 510H

Fast Dome Bracket

Bracket						
Product Picture						
Name	Wall Mount	Wall Mount	Corner/ Pole Mount	Swan Neck	Wall Mount	Pendant Mount
Model	PIH-520L	PIH-520LB	PIH-CPM	PIH-520G	PIH-510L	PIH-510H
Maximum Load	-	-	20kg	-	-	-
Construction	Aluminum			Steel	Aluminum	
Dimension(mm)	100(W) x160 (H) x 210(D)	204(W) x284(H) x 255(D)	156.6(W) x126 (H) x 86.8(D)	725(L)x455(W)x83(H)	405(W) x367.15(H) x 270(D)	274(W) x477.5(H) x 270(D)
Weight	0.84kg	3.1kg	0.44kg	6.8kg	5kg	4.8kg
Strap	-		Stainless Strap for Pole X2	-		
Schematic Drawing						
Matched Model	PIH 7525DH / 7530DH / 7535DH / ST 025 / 030 / 035	PIH 7525DH / 7530DH / 7535DH / ST 025 / 030 / 035	PIH 520L / PIH CPM / PIH 5004 / 5004L	PIH 7525DH / 7530DH / 7535DH / ST 025 / 030 / 035	PIH 7625DW	PIH 7625DW