

Camera

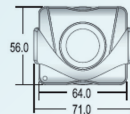
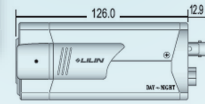
Design and specifications are subject to change without notice. 7

PIH 817

- ◆ Wide Dynamic Range
- ◆ OSD Menu Setup
- ◆ Up to 8 Privacy Masking Zones
- ◆ IR Cut Filter Mechanism, Auto Color & Mono Switching
- ◆ Built-in Highly Sensitive Microphone
- ◆ Day and Night Applications for 24 Hr Surveillance
- ◆ Internal / Line Lock Selectable



Dimension Unit:mm



Box Camera

- PIH-817: **Wide Dynamic Range** Day & Night Camera **with IR Cut Filter**
- PIH-815/819: **Super Hi-Resolution (540 TV Lines)** Day & Night Camera **with IR Cut Filter**
- PIH-802/804: Day & Night Camera **with IR Cut Filter**
- PIH-808: **Low Lux** Day & Night Camera **with IR Cut Filter**
- PIH-602: Color Camera
- PIH-402: **Integrated Varifocal** Camera
- CMW 12/15/022 Series: **Waterproof Varifocal** Camera
- CMG 052X35: 35X D/N Camera **Zoom Module**

Dome Camera

- PIH-202/204: **Dual Voltage** Color Dome Camera
- PIH-212X/214X: **Dual Voltage Varifocal** Color Dome Camera
- PIH-222/224: **Vandal Resistant** Dome Camera
- PIH-232X/234X: **Vandal Resistant Varifocal** Dome Camera
- PIH-242/244: **Mini Dome** Camera
- PIH-252/254: **Metal Mini Dome** Camera
- PIH-262/264: Color Dome Camera
- PIH-262X/264X: **Varifocal** Dome Camera
- PIH-2342X/2346X: **Vandal Resistant Varifocal** Day & Night Camera

IR Camera

- PIH-0012: **18M** IR Camera
- PIH-012/014: **Ultrahigh Sensitivity 40M** IR Camera
- PIH-036X/038X: **Varifocal** IR Camera
- PIH-042/044: **Mini Dome** IR Camera
- PIH-052/054: **21M** IR Camera
- PIH-062/064: **30M** IR Camera
- PIH-0742X/0746X: **Vandal Resistant Varifocal** IR Camera
- CMR 12/15/22/25 Seires: D/N **Varifocal IR** Camera

Specifications

Box type Camera

Name	Wide Dynamic Range Day & Night Camera		
Series Number	PIH-817		
Type	High Resolution		
Model	NTSC	PIH-8176N	PIH-8178N
	PAL	PIH-8176P	PIH-8178P
Power Supply	AC	24V ± 10%	90V~260V max
	DC	12V ± 10%	-
Image Pick-up Device	Sony 1/3" Vertical Double-Density Interline CCD Sensor		
Effective Pixels	NTSC	768 (H) x 494 (V)	
	PAL	752 (H) x 582 (V)	
Chip size	6.00mm(H) x 5.00mm(V)		
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz	
	PAL	15.625KHz / 50Hz	
Scanning System	NTSC	2:1 Interlace , 525 Lines , 60 Fields / Sec.	
	PAL	2:1 Interlace , 625 Lines , 50 Fields / Sec.	
Sync. Mode	AC: Line-Lock / Internal; DC: Internal		
IR Cut Filter	Auto / In / Out / Schedule / Ext-Ctrl		
Resolution	Color	480 TV lines	
	Mono	520 TV lines	
Minimum Illumination	Color	0.005 Lux / F1.2 (Sense Up x 160)	
	IR ON	0 Lux	
	Mono	0.001 Lux / F1.2 (Sense Up x 160)	
S/N Ratio	More than 50dB(AGC Off)		
Auto Gain Control	Low (8dB) / Medium (22dB) / High (36dB)		
White Balance	ATW / MWB / PUSH / Indoor (3200K) / Outdoor (6300K)		
Aperture Gain Correction	Horizontal & Vertical Gain Adjustable		
Expose Mode	AUTO / MANUAL / WDR		
Auto Shutter Speed	Min.	1/60 (1/50)S ~ 1/200S	
	Max.	1/500S ~ 1/100,000S	
Manual Shutter Speed	1/60 (1/50)S ~ 1/50,000S		
Low Lux Mode	Off / Slow / AGC / AGC-Slow		
Slow Shutter Speed	0 Fld / 2~20 Fld / 40 Fld / 80 Fld / 160 Fld / 320 Fld / 510 Fld		
Wide Dynamic Range	400 : 1		
Back Light Compensation	Off / Fix WGT. /Auto WGT.		
Electronic Zoom	On(2.56X Max.) / Off; WDR: Electronic Zoom is not Available		
Privacy Masking Zone	8 Zones		
Flickerless	On / Off		
Image Setting	Pedestal / Aperture / Gamma / Mirror / Flip / Y Negative		
Video Output	CVBS 1.0Vpp / 75 Ω BNC		
Audio Output	Yes		
Lens Mount	C or CS		
Auto Iris Drive	Direct Drive (DC) or Video Drive		
Gamma Characteristic	Adjustable		
Menu Control	OSD Control		
Power Consumption	AC	24V/ 4.0W	5.3W
	DC	12V/ 5.2W	-
Operating Temperature	-10°C ~ + 50°C (14°F ~ 122°F)		
Dimension	64mm (W) x 56mm (H) x 126mm(D)		
Weight	700g		

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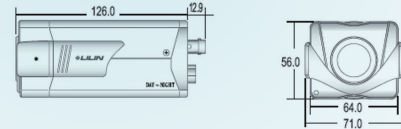
LILIN[®] Box Camera

PIH 815/819

- ◆ Super High Resolution : Color 540 TV Lines / Mono 600 TV Lines
- ◆ OSD Menu Setup
- ◆ Up to 8 Privacy Masking Zones
- ◆ IR Cut Filter Mechanism, Auto Color & Mono Switching
- ◆ Built-in Highly Sensitive Capacitive Microphone
- ◆ Internal/ Line Lock Selectable
- ◆ Day and Night Applications for 24Hr Surveillance



Dimension Unit:mm



Specifications

Box type Camera

Name		Super Hi-Resolution Day & Night Camera			
Series Number		PIH-815 / 819			
Type		Super Hi-Resolution		Low Lux Super Hi-Resolution	
Model	NTSC	PIH-8156N	PIH-8158N	PIH-8196N	PIH-8198N
	PAL	PIH-8156P	PIH-8158P	PIH-8196P	PIH-8198P
Power Supply	AC	24V ±10%	90V~260V max	24V ±10%	90V~260V max
	DC	12V ±10%	-	12V ±10%	-
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor		Sony 1/3" Exview 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)		6.00mm(H) x 4.96mm(V)	
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz			
	PAL	15.625KHz / 50Hz			
Scanning System	NTSC	2:1 Interlace , 525 Lines , 60 Fields / Sec.			
	PAL	2:1 Interlace , 625 Lines , 50 Fields / Sec.			
Sync. Mode		AC: Line-Lock / Internal; DC : Internal			
IR Cut Filter		Auto / In / Out / Schedule / Ext-Ctrl			
Resolution	Color	540 TV lines			
	Mono	600 TV lines			
Minimum Illumination	Color	0.1 Lux / F1.2		0.05 Lux / F1.2	
	IR ON	0 Lux			
	Mono	0.02 Lux / F1.2		0.01 Lux / F1.2	
S/N Ratio		More than 50dB(AGC Off)			
Auto Gain Control		Off / Low (22dB) / High (36dB)			
White Balance		ATW / MWB / PUSH / HOLD / INDOOR / OUTDOOR			
Aperture Gain Correction		16 Steps			
Electronic Shutter Speed		1/60(1/50)S ~ 1/100,000S (Auto, Manual, AEUSR)			
Back Light Compensation		On / Off			
Privacy Masking Zone		8 Zones			
Flickerless		On / Off			
Image Setting		Setup / Wclip / Mirror / Negative			
Video Output		CVBS 1.0Vpp / 75ΩBNC			
Audio Output		Yes			
Lens Mount		C or CS			
Auto Iris Drive		Direct Drive (DC) or Video Drive			
Gamma Characteristic		8 Steps			
Menu Control		OSD Control			
Power Consumption	AC	24V/ 4.5W	4.8W	24V/ 4.5W	4.8W
	DC	12V/ 5.0W	-	12V/ 5.0W	-
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)			
Dimension		64mm (W) x 56mm (H) x 126mm(D)			
Weight		650g			

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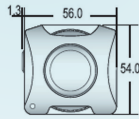
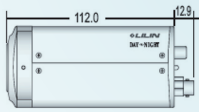
Box Camera **LILIN**

PIH 802/804/808



- ⊕ IR Cut Filter Mechanism, Auto Color & Mono Switching
- ⊕ Powerful White Balance
- ⊕ Built-in Highly Sensitive Capacitive Microphone
- ⊕ Internal / Line Lock Selectable
- ⊕ Day & Night Applications for 24Hr Surveillance
- ⊕ Accepts Video or DC Drive Auto Iris Lenses

Dimension Unit:mm



Specifications

⊕ Box type Camera

Name		Day & Night Camera					
Series Number		PIH-802/804/808					
Type		Standard Resolution		High Resolution		Low Lux Hi-Resolution	
Model	NTSC	PIH-8026N	PIH-8028N	PIH-8046N	PIH-8048N	PIH-8086N	PIH-8088N
	PAL	PIH-8026P	PIH-8028P	PIH-8046P	PIH-8048P	PIH-8086P	PIH-8088P
Power Supply	AC	24V ± 10%	90V~260V max	24V ± 10%	90V~260V max	24V ± 10%	90V~260V max
	DC	12V ± 10%	-	12V ± 10%	-	12V ± 10%	-
Image Pick-up Device		Sony 1/3" Super HAD CCD Sensor				Sony 1/3" Exview 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)				6.00mm(H) x 4.96mm(V)	
H/V Sync. Frequency	NTSC	15.734KHz / 59.94Hz					
	PAL	15.625KHz / 50Hz					
Scanning System	NTSC	2:1 Interlace , 525 Lines , 60 Fields / Sec.					
	PAL	2:1 Interlace , 625 Lines , 50 Fields / Sec.					
Sync. Mode		AC: Line-Lock / Internal; DC: Internal					
IR Cut Filter		On: Color Mode; Auto: Automatic Switch From Color Mode to Monochrome					
Resolution	Color	380 TV lines		480TV lines			
	Mono	420 TV lines		520TV lines			
Minimum Illumination	Color	0.08 Lux / F1.2		0.1 Lux / F1.2		0.05 Lux / F1.2	
	IR ON	0 Lux					
	Mono	0.01 Lux / F1.2		0.02 Lux / F1.2		0.01 Lux / F1.2	
S/N Ratio		More than 50dB(AGC Off)					
Auto Gain Control		On / Off Selectable					
White Balance		ATW / PUSH / HOLD / 3200K / 4200K / 4700K / 6300K					
Aperture Gain Correction		Horizontal , Vertical					
Electroinc Shutter Speed		1/60 (1/50)S ~ 1/100,000S (Auto or Off)					
Back Light Compensation		Auto					
Video Output		CVBS 1.0Vpp / 75Ω BNC					
Audio Output		Yes					
Lens Mount		C or CS					
Auto Iris Drive		Direct Drive (DC) or Video Drive					
Gamma Characteristic		γ =0.45					
Power Consumption	AC	24V/ 4.0W	5.3W	24V/ 4.0W	5.3W	24V/ 4.0W	5.3W
	DC	12V/ 5.2W	-	12V/ 5.2W	-	12V/ 5.2W	-
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)					
Dimension		56mm (W) x 54mm (H) x 112mm(D)					
Weight		510g					

Design and specifications are subject to change without notice. 11

LILIN[®] Box Camera

PIH 602

- ◆ Cost Effective Camera Solutions
- ◆ Compact Design for Discreet Applications
- ◆ Special Circuit to Avoid Color Rolling
- ◆ Accepts Both Video and DC Drive Auto Iris Lenses



Dimension Unit:mm



Specifications

◆ Box type Camera

Name		Color Camera			
Series Number		PIH-602			
Type		Standard Resolution			
Model	NTSC	PIH-6022N	PIH-6024N	PIH-6027N	PIH-6023N
	PAL	PIH-6022P	PIH-6024P	PIH-6027P	PIH-6023P
Power Supply	AC	-	24V ± 10%	117V	230V
	DC	12V ± 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	15.734KHz / 59.94Hz			
	PAL	15.625KHz / 50Hz			
Scanning System	NTSC	2:1 Interlace , 525 Lines , 60 Fields / Sec.			
	PAL	2:1 Interlace , 625 Lines , 50 Fields / Sec.			
Sync. Mode		Internal			
Resolution		380TV Lines			
Minimum Illumination		0.08 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 Speed		1/60 (1/50)S~ 1/100,000S (Auto or Off)			
Back Light Compensation		Auto			
Video Output		CVBS 1.0Vpp / 75Ω BNC			
Lens Mount		C or CS			
Auto Iris Drive		Direct Drive (DC)			
Gamma Characteristic		γ=0.45			
Power Consumption	AC	-	6.0W		
	DC	2.3W	-		
Operating Temperature		-10°C ~ + 50°C (14°F ~122°F)			
Dimension		58mm (W) x 48mm (H) x 96mm(D)			
Weight		220g	500g		

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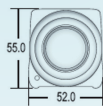
Box Camera **LILIN**



PIH 402

- ⊕ Built-in High Definition Varifocal Lens
- ⊕ Integrated Dust Proof Design
- ⊕ Removable Lens Cap
- ⊕ Built-in Highly Sensitive Capacitive Microphone

Dimension Unit:mm



Specifications

⊕ Box type Camera

Name	Integrated Varifocal Camera		
Series Number	PIH-402		
Type	Standard Resolution		
Model	NTSC	PIH-4026N	PIH-4028N
	PAL	PIH-4026P	PIH-4028P
Lens	Focal Length	3 ~ 9mm	
	Iris	F1.4	
	Angle of View	H: 31.8° ~90.2° ; V:23.9° ~66.3° ; D:39.7° ~115.3°	
Power Supply	AC	24V ±10%	AC 90V~260V max.
	DC	12V ±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	15.734KHz / 59.94Hz	
	PAL	15.625KHz / 50Hz	
Sync. Mode	Internal		
Resolution	380TV Lines		
Minimum Illumination	0.1 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		
Scanning System	2:1 Interlace		
Back Light Compensation	Auto		
Video Output	CVBS 1.0Vpp / 75Ω BNC		
Audio Output	Yes		
Gamma Characteristic	γ =0.45		
Power Consumption	AC	24V / 2.5W	4.3W
	DC	12V / 3.0W	-
Operating Temperature	-10°C ~ + 50°C (14°F G42 ~122°F)		
Dimension	52mm (W) x 55mm (H) x 124mm(D)		
Weight	400g		

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LILIN[®] Box Camera

CMW 12/15 Series

- ◆ 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



Dimension Unit:mm



Specifications

Box type Camera

Name		Waterproof Vari-Focal Color Camera			
Series Number		CMW12/15 Series			
Type		Standard Resolution		Super High Resolution	
Model		CMW124X2.2N/P	CMW128X2.2N/P	CMW154X2.2N/P	CMW158X2.2N/P
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
System		NTSC or PAL			
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	
White Balance		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			

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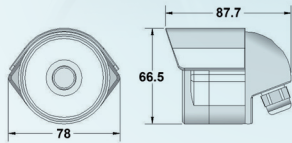
Box Camera **LILIN**



CMW 022 Series

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

Dimension Unit:mm



Specifications

⊕ Box type Camera

Name		Waterproof Color Camera			
Series Number		CMW022 Series			
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%			
System		NTSC or PAL			
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			
White Balance		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			
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) x 66.5mm(H) x 88mm(D)			
Weight		340g			

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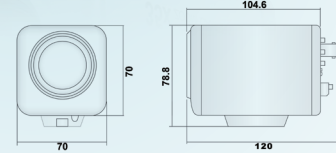
LILIN[®] Box Camera

CMG 052X35

- ◆ Sony 1/4 " CCD Image Sensor
- ◆ Super High Resolution : 520 TV lines
- ◆ Built-in 35X Optical Zoom Lens
- ◆ OSD Menu Setup , Multi-Language Operation
- ◆ Privacy Masking Zone , Up to 8 zones
- ◆ IR Cut Filter Mechanism , Auto Color & Mono Switching
- ◆ Powerful White Balance
- ◆ Day & Night Application for 24Hr Surveillance
- ◆ RS-485/RS-232 Communication Control Interface



Dimension Unit:mm



Specifications

Box Type Camera

Name	35X Day&Night Super Hi-Resolution Camera Zoom Module	
Series Number	CMG052X35N	CMG052X35P
System	NTSC	PAL
Lens	Zoom Ratio	35X Optical Zoom
	Focal Length	3.43 mm ~ 120 mm
	Maximum Aperture Ratio	1 : 1.6 (Wide) ~ 4.5 (Tele)
	Angle of View	Wide : 68.6° (D) 57.8° (H) 43.7° (V) / Tele : 2.23° (D) 1.70° (H) 1.30° (V)
Image Pick-up Device	Sony 1/4" Exview HAD CCD Sensor	
Effective Pixels	768 (H) x 494 (V)	752 (H) x 582 (V)
Chip Size	4.43mm(H) x 3.69mm(V)	
H / V Sync. Frequency	15.734KHz / 59.94Hz	15.625KHz / 50Hz
Scanning System	2:1 Interlace	
Sync. Mode	Internal	
Day / Night Mode	Day / Night / Auto / Exctrl Selectable	
Resolution	Color : 520 TV Lines , Mono : 580 TV Lines	
Minimum Illumination	Color : 0.1 Lux / F1.6 , Mono : 0.01 Lux / F1.6	
S/N Ratio	More than 50 dB (AGC Off)	
Auto Gain Control	0dB ~36dB Selectable	
White Balance	ATW / PUSH / MWB Selectable	
Exposure Mode	Manual / Auto / Flickerless Selectable	
Electronic Shutter	1/60S ~ 1/100,000S	1/50S ~ 1/100,000S
Zoom Speed	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 Selectable	
Back Light Compensation	On / Off Selectable	
Privacy Masking Zone	On / Off Selectable (Up to 8 Zones Settings)	
Gamma Characteristic	8 Steps Selectable	
Mirror Function	On / Off Selectable	
Negative Image	On / Off Selectable	
Video Output	CVBS 1.0Vp-p / 75Ω BNC	
Communication Control	RS-485 / RS-232 (Manual Switch)	
Character Display	On / Off (Camera ID:16 Alphanumeric Characters , Zoom Ratio)	
External Control	Lens Control (Focus , Zoom , IRIS)	
Power Input Voltage	DC12V ±10%	
Power Consumption	5.0W	
Operating Temperature	-10°C ~ + 50°C (14°F ~122°F)	
Dimension	70mm(W) x 70mm(H) x 120mm(D)	
Weight	600g	

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