



**MODEL: ISS-119VF3/9 1/3" BW Vari-Focal Lens CCD Camera**

**MODEL: ISS-119HVF3/9 1/3" BW Vari-Focal Lens CCD High Res. Camera**



**FEATURES**

- ❑ B/W camera with SONY 1/3" Super HAD CCD Sensor in metal case.
- ❑ Pixel number : Normal Resolution: EIA=270K / CCIR=320K.  
High Resolution: EIA=380K / CCIR=440K.
- ❑ High sensitivity, low smear, high anti-blooming.
- ❑ Auto Electronic Shutter (AES), Auto Gain Control (AGC), Back light Compensation(BLC), Auto Iris Control (AI).
- ❑ Built-in 2.5x Vari-Focal Lens with DC-Drive auto Iris function.
- ❑ DC 12V or AC24V dual power acceptable, low power consumption, Aesthetic.

**SPECIFICATIONS** *(Note: Design and specifications are subject to change without prior notice.)*

Model No.	ISS-119VF3	ISS-119VF9	ISS-119HVF3	ISS-119HVF9
Image Pick-up Device	SONY 1/3" Super HAD CCD Sensor.		SONY 1/3" Hi-Res. Super HAD CCD Sensor.	
Effective Picture Elements	EIA: 510×492, CCIR: 500×582 (H×V)		EIA: 768×494, CCIR: 752×582 (H×V)	
Horizontal Resolution	420 horizontal TV lines		600 horizontal TV lines	
Minimum Illumination	0.1 LUX @ F2.0		0.2 LUX @ F2.0	
S/N Ratio	More than 48dB			
Auto Electronic Shutter	EIA: 1/60s ~ 1/100,000s, CCIR: 1/50s ~ 1/110,000s. ON / OFF Switch-able.			
Auto Iris Control	Built-in DC Drive Iris Control.			
Auto Gain Control	Yes.			
Back Light Compensation	ON / OFF Switch-able.			
Gamma Characteristic	0.45			
Lens Furnished	Vari-Focal with DC Drive Iris Lens.			
Focal Length & Aperture Ratio	3.5~8.0mm/F1.6~360	9.0~22.0mm/F2.0~36 0	3.5~8.0mm/F1.6~360	9.0~22.0mm/F2.0~36 0
Angle Field of View	Wide:78.9×58.3mm, Tele:35.4×26.5mm	Wide:29.2×21.7mm, Tele:13.0×9.7mm	Wide:78.9×58.3mm, Tele:35.4×26.5mm	Wide:29.2×21.7mm, Tele:13.0×9.7mm
Synchronous System	Internal, Negative sync.			
Video Output	1 Vp-p / 75 Ohms.			
Power Supply	DC 12V ± 10%, AC24V ± 20% (50/60Hz)			
Power Consumption	DC12V : 215mA /2.58W ; AC24V : 200mA /2.2W		DC12V : 250mA /3W ; AC24V : 220mA /2.5W	
Operating Temp.	-10°C to 50°C (14°F to 122°F)			



## Model No. ISS-319HVF3/HVF9 1/3" Color Vari-Focal Lens DSP High Res. Camera

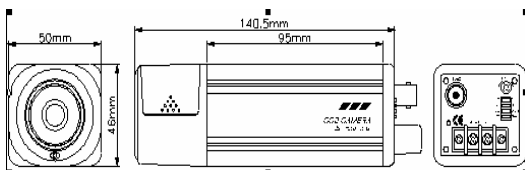


### FEATURES

- Color camera with SONY 1/3" High Resolution Super HAD CCD sensor in metal case.
- Employs Digital Signal Processor (DSP) chip-set for image control.
- Pixel number: NTSC=380K / PAL=440K
- High sensitivity, low smear, high anti-blooming.
- Support functions: Auto Electronic Shutter (AES), Auto Iris(AI), Auto Gain Control (AGC), Auto White Balance (AWB/ATW), Back Light Compensation (BLC).
- Built-in 2.5x Vari-Focal Lens with DC-Drive auto Iris function.
- Built-in anti-aliasing and IR-cut optical filter.
- DC 12V or AC24V dual power acceptable, low power consumption, Aesthetic.

### SPECIFICATIONS *(Note: Design and specifications are subject to change without prior notice.)*

Model No.	ISS-319HVF3	ISS-319HVF9
Image Pick-up Device	SONY 1/3" High Resolution Super HAD CCD sensor	
Effective Picture Elements	NTSC:768*494, PAL: 752*582 (H*V)	
Horizontal Resolution	470 horizontal lines	
Minimum Illumination	0.4 LUX @ F2.0	
S/N Ratio	More than 48 dB	
Auto Electronic Shutter	NTSC:1/60s~1/100,000s, PAL:1/50s~1/110,000s ON/OFF switch-able	
Auto Iris Control	Built-in DC Drive Iris Control.	
Auto Gain Control	Yes	
Auto White Balance	AWB / ATW	
Back Light Compensation	ON/OFF Switch-able	
Gamma Characteristic	0.45	
Lens Furnished	Vari-Focal with DC Drive Iris Lens.	
Focal Length & Aperture Ratio	3.5~8.0mm/F1.6~360	9.0~22.0mm/F2.0~360
Angle Field of View	Wide:78.9x58.3mm, Tele:35.4x26.5mm	Wide:29.2x21.7mm, Tele:13.0x9.7mm
Synchronous System	Internal, Negative sync.	
Video Output	1 Vp-p / 75 Ohms.	
Power Supply	DC 12V ± 10%, AC24V ± 20% (50/60Hz)	
Power Consumption	DC12V : 360 mA / 4.32W ; AC24V : 290 mA / 3.6W	
Operating Temp.	-10°C to 50°C (14°F to 122°F)	





## Model No. ISS-319VF3/ISS-319VF9

### Vari-Focal Lens 1/3" Color DSP CCD Camera



#### FEATURES

- COLOR camera with SONY 1/3" Super HAD CCD sensor in metal case.
- Employs Digital Signal Processor (DSP) IC for image control.
- Pixel number : NTSC=270,000 / PAL=320,000.
- High sensitivity, low smear, excellent anti-blooming, and high S/N ratio.
- Supports functions: Auto Electronic Shutter (AES), Auto Iris Control (AIC), Auto Gain Control (AGC), Auto White Balance (AWB), Back Light Compensation (BLC), Flicker Less (FL).
- Built-in anti-aliasing and IR-cut optical filter.
- Built-in 2.5x Vari-Focal Lens with DC-Drive auto Iris function.
- DC 12V or AC24V dual power acceptable, low power consumption, Aesthetic.

#### SPECIFICATIONS *(Note: Design and specifications are subject to change without prior notice.)*

Model No.	ISS-319VF3	ISS-319VF9
Image Pick-up Device	SONY 1/3" Super HAD CCD sensor	
Effective Picture Elements	NTSC:510*492, PAL: 500*582 (H*V)	
Horizontal Resolution	380 TV lines	
Minimum Illumination	0.2 LUX @ F2.0	
S/N Ratio	More than 48 dB	
Auto Electronic Shutter	NTSC:1/60s~1/100,000s, PAL:1/50s~1/110,000s. ON / OFF Switch-able.	
Auto Iris Control	Built-in DC Drive Iris Control.	
Auto Gain Control	High / Low Switch-able.	
Auto White Balance	Color Temperature: 2500K~9500K.	
Back Light Compensation	ON / OFF Switch-able.	
Flicker Less Mode	ON/OFF Switch-able. Fix shutter speed: NTSC=1/100s, PAL=1/120s.	
Lens Furnished	Vari-Focal with DC Drive Iris Lens.	
Focal Length & Aperture Ratio	3.5~8.0mm/F1.6~360	9.0~22.0mm/F2.0~360
Angle Field of View	Wide:78.9×58.3mm, Tele:35.4×26.5mm	Wide:29.2×21.7mm, Tele:13.0×9.7mm
Synchronous System	Internal, Negative sync.	
Video Output	1 Vp-p / 75 Ohms.	
Power Supply	DC 12V ± 10%, AC24V ± 20% (50/60Hz)	
Power Consumption	DC12V : 230 mA / 2.76W ; AC24V : 205 mA / 2.3W	
Dimension L*W*H	140.5 x 50 x 46 mm	
Operating Temp.	-10°C to 50°C (14°F to 122°F)	



## Model No: ISS-311 1/3” Color CCD DSP Camera



### FEATURES

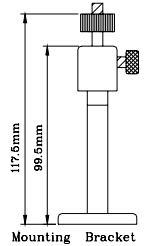
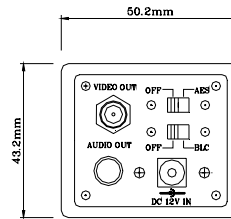
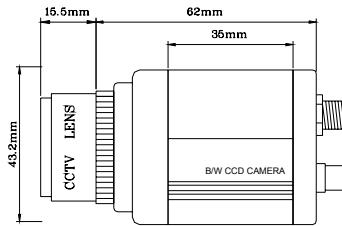
- COLOR camera with SHARP 1/3” Super HAD CCD sensor.
- Employs Digital Signal Processor (DSP) IC for image control.
- Pixel number : NTSC=270,000 / PAL=320,000.
- High sensitivity, low smear, excellent anti-blooming, and high S/N ratio.
- Supports functions: Auto Electronic Shutter (AES), Auto Iris Control (AIC), Auto Gain Control (AGC), Auto White Balance (AWB), Back Light Compensation (BLC), Flicker Less (FL), built-in Audio (optional).
- Built-in anti-aliasing and IR-cut optical filter.
- Furnished with power and signals connect wire.
- DC type, low power consumption. Economical, aesthetic.

### SPECIFICATIONS *(Note: Design and specifications are subject to change without prior notice.)*

<b>Image Pick-up Device</b>	<b>SHAPR 1/3” Super HAD CCD sensor</b>
<b>Effective Picture Elements</b>	NTSC:510*492, PAL: 512*582 (H*V)
<b>Horizontal Resolution</b>	330 TV lines
<b>Minimum Illumination</b>	0.5 LUX @ F2.0
<b>S/N Ratio</b>	More than 48 dB
<b>Auto Electronic Shutter</b>	NTSC:1/60s~1/100,000s, PAL:1/50s~1/110,000s. ON / OFF Switch-able.
<b>Auto Iris Control</b>	Video-Drive Iris Control.
<b>Auto White Balance</b>	Color Temperature: 2500K~9500K.
<b>Back Light Compensation</b>	ON / OFF Switch-able.
<b>MIRROR</b>	Switch-able
<b>Flicker Less Mode</b>	ON/OFF Switch-able. Fix shutter speed: NTSC=1/100s, PAL=1/120s.
<b>Gama Characteristic</b>	0.45
<b>Lens Mount</b>	C or CS mount adjustable
<b>Synchronous System</b>	Internal, Negative sync.
<b>Video Output</b>	1 Vp-p / 75 Ohms.
<b>Audio Function (optional)</b>	2 Vp-p / 50 Ohms.
<b>Power Supply</b>	12V DC ± 10%
<b>Power Consumption</b>	1.65W
<b>Operating Temp.</b>	-10°C to 50°C (14°F to 122°F)



## Model No. ISS-312/ISS-112 1/4" Color & 1/3" BW Camera Kit FEATURES

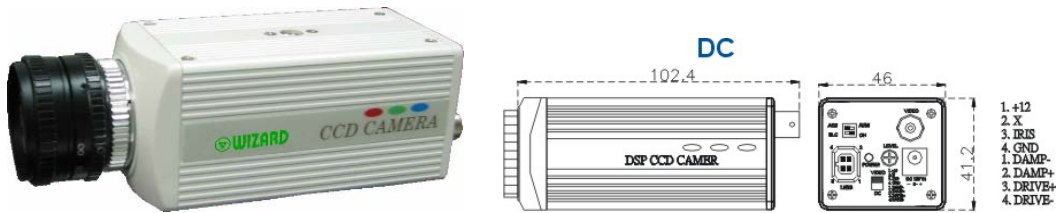


- \* COLOR camera with a 1/4 " CCD sensor; BW camera with a 1/3" Sensor
  - \* Employs Digital Signal Processor (DSP) IC for image control.
  - \* Reduced fixed pattern noise and lag. No sticking and no image distortion. Blooming suppression.
  - \* Supports functions: Auto Electronic Shutter (AES), Auto Gain Control (AGC), Auto White Balance (AWB), Auto Back Light Compensation (ALC) for BW, Audio Output.
  - \* Built-in microphone and audio amplifier for audio function.
  - \* Built-in anti-aliasing and IR-cut optical filter.
- Spec.

Model No.	ISS-312	ISS-112
Image Pick-up Device	1/4" Sony CCD sensor	BW 1/3" CCD sensor
Effective Picture Elements	NTSC:512*492, PAL: 512*582 (H*V)	EIA:512*492, CCIR: 512*582 (H*V)
Horizontal Resolution	330 TV lines	400 TV lines
Minimum Illumination	0.5 LUX @ F2.0	0.3 LUX @F2.0
S/N Ratio	More than 48 dB	
Auto Electronic Shutter	NTSC:1/60s~1/100,000s, PAL:1/50s~1/110,000s.	EIA:1/60s~1/120,000s, CCIR:1/50s~1/120,000s ON/OFF Switchable
Auto Gain Control	Yes	
Back Light Compensation	N/A	ON/OFF switchable
Auto White Balance	Yes	
Gamma Characteristic	0.45	
Synchronous System	Internal, Negative sync.	
Video Output	1 Vp-p / 75 Ohms. BNC or F connector.	
Power Supply	12V DC ± 10% / 150 mA	
Audio Function	Microphone + Amplifier (2Vp.p., 50 Ohms). RCA output connector.	
Lens Furnished	f 3.6 mm / F2.0 fixed iris lens, CS mount (optional:3.6/4/6/8mm).	
Dimension	62(L) * 50.2 (W) * 43.2(H) mm	
Mounting Bracket	Metal	
Operating Temp.	-10°C to 50°C (14°F to 122°F)	



**Model No. ISS-302D 1/3" Color DSP CCD D & N Camera**



**Features:**

- \* Employs Digital Signal Processor (DSP) chip-set for image control
- \* Pixel number : NTSC=270K / PAL=320K (Normal Resolution)
- \* High sensitivity, low smear, high anti-blooming, and high S/N ratio.
- \* Powerful functions: Auto Electronic Shutter (AES), Auto Gain Control (AGC),
- \* Auto White Balance (AWB), Auto Iris(AI), Back Light Compensation(BLC)
- \* Supports both C and CS mount lens
- \* Built-in anti-aliasing
- \* Built-in IR-cut optical filter
- \* Auto Iris Lens mode: Video/DC Drive Switchable.

**Specification :**

Model no.	ISS-302D (D&N)
Image Pick-up Device	SHARP 1/3" color CCD sensor
Effective Picture Elements	NTSC:510x492 , PAL:500x582(HxV)
Horizontal Resolution	400TV lines
Minimum Illumination	0.05 Lux @ F1.2 / 0Lux @ IR
S/N Ratio	More than 48 dB
Auto Electronic Shutter	AES ON : NTSC:1/60s~100,000s,PAL:1/50s~1/100,000s(Auto) OFF : NTSC:1/60s,PAL:1/50s
Auto IRIS Control	Video Driver Lens & DC Driver Lens Both Supported.
Gamma Correction	0.45
Lens Mount	C or CS mount adjustable
Gain Control	Automatically
White Balance	Automatically (2500°K~9500°K)
Back Light Compensation	ON/OFF Switch
Synchronous System	Negative sync. Internal
Video Output	1 Vp-p Composite Video / 75 Ω. BNC connector.
Power Supply	DC 12V ,AC 110, AC 220 , AC 230 (option) / 3W
Operating Temp.	-10°C to 50°C (14°F to 122°F)
Dimensions(L x W x H) (mm)	AC 122.4 x 46 x 41.2 / DC 102.4 x 46 x 41.2





# Model No. ISS-316 1/4" Color DSP CCD Camera



## Features :

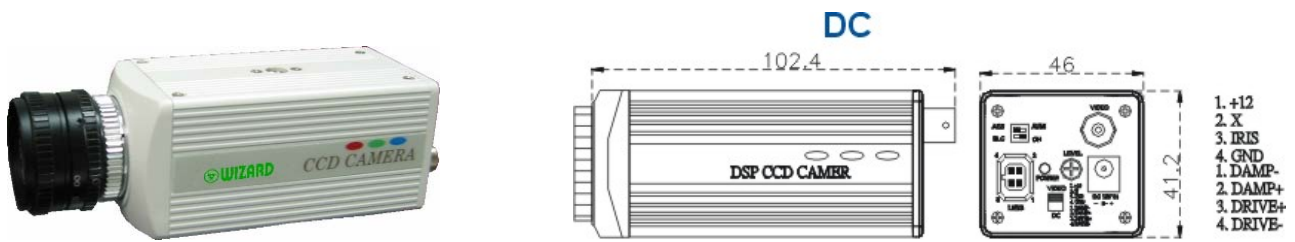
- \* High sensitivity, low smear, high anti-blooming, and high S/N ratio.
- \* Powerful functions: Auto Electronic Shutter (AES), Auto Gain Control (AGC),
- \* Auto White Balance (AWB), Auto Iris(AI), Back Light Compensation(BLC)
- \* Employs Digital Signal Processor (DSP) chip-set for image control
- \* Pixel number : NTSC=270K / PAL=320K (Normal Resolution)

## Specification

Model No.	ISS-316
Image Pick-up Device	<b>SHARP</b> 1/4" color CCD sensor
Effective Picture Elements	NTSC:510x492 , PAL:500x582(HxV)
Horizontal Resolution	380 TV lines
Minimum Illumination	0.1 Lux @ F1.2
S/N Ratio	More than 48 dB
Auto Electronic Shutter	AES ON : NTSC:1/60s~100,000s,PAL:1/50s~1/100,000s(Auto) OFF : NTSC:1/60s,PAL:1/50s
Auto IRIS Control	Video Driver Lens & DC Driver Lens Both Supported.
Gamma Correction	0.45
Lens Mount	<b>C or CS mount adjustable</b>
Gain Control	Automatically
White Balance	Automatically (2500°K~9500°K)
Back Light Compensation	ON/OFF Switch
Synchronous System	Negative sync. Internal
Video Output	1 Vp-p Composite Video / 75 Ω. BNC connector.
Power Supply	<b>DC 12V ,AC 110, AC 220 , AC 230 (option) / 3W</b>
Operating Temp.	-10°C to 50°C (14°F to 122°F)
Dimensions(L x W x H) (mm)	AC 122.4 x 46 x 41.2 / DC 102.4 x 46 x 41.2



## Model no. ISS-302H/ISS-302DH (D&N) 1/3"Color Sharp camera with high res.



### Features:

- Employs Digital Signal Processor (DSP) chip-set for image control
- Pixel number : NTSC=380K / PAL=440K (High Resolution)
- High sensitivity, low smear, high anti-blooming, and high S/N ratio.
- Powerful functions: Auto Electronic Shutter (AES), Auto Gain Control (AGC),
- Auto White Balance (AWB), Auto Iris(AI), Back Light Compensation(BLC)
- Supports both C and CS mount lens
- Built-in anti-aliasing
- Built-in IR-cut optical filter (ISS-302DH)
- Auto Iris Lens mode: Video/DC Drive Switchable

### Specification:

Model	ISS-302H	ISS-302DH (D&N)
Image Pick-up Device	SHARP 1/3" color CCD sensor	
Effective Picture Elements	NTSC:768x494 , PAL:752x582(HxV)	
Horizontal Resolution	<b>480 TV Lines</b>	
Minimum Illumination	0.05 Lux @ F1.2	0.05 Lux @ F1.2 / 0Lux @ IR
S/N Ratio	More than 48 dB	
Auto Electronic Shutter	AES ON : NTSC:1/60s~100,000s,PAL:1/50s~1/100,000s OFF : NTSC:1/60s,PAL:1/50s	
Auto IRIS Control	Video Driver Lens & DC Driver Lens Both Supported.	
Gamma Correction	0.45	
Lens Mount	C or CS mount adjustable	
Gain Control	Automatically	
White Balance	Automatically (2500°K~9500°K)	
Back Light Compensation	ON/OFF Switch	
Synchronous System	Negative sync. Internal	
Video Output	1 Vp-p Composite Video / 75 Ω. BNC connector.	
Power Supply	<b>DC 12V ,AC 110, AC 220 , AC 230 (option) / 3W (optional)</b>	
Operating Temp.	-10°C to 50°C (14°F to 122°F)	
Dimensions(L x W x H) (mm)	<b>AC 122.4 x 46 x 41.2 / DC 102.4 x 46 x 41.2</b>	





## Model no. ISS -2720H 1/2" Sony ExView HAD CCD Sensor



### Features:

- ▶ 1/2" Sony ExView HAD CCD Sensor
- ▶ Sony Digital Signal Processor
- ▶ NTSC: 811 x 508 / PAL: 795 x 596 Pixels
- ▶ 480 TV Lines / 520 TV Lines (Y/C)
- ▶ 0.05 Lux @F1.2
- ▶ Y/C Output
- ▶ AGC On/Off Adjustable
- ▶ AES On/Off Adjustable
- ▶ 8-step Manual Shutter Speed Adjustable
- ▶ AWB / PWB White Balance Adjustable
- ▶ BLC On/Off Adjustable
- ▶ AC Line Lock Sync.
- ▶ Accept Video & D.C. Iris Lens
- ▶ External Back Focus Adjusting
- ▶ DC 12V/AC 24V or AC 90V ~ 260V

### Specifications:

<b>Model</b>	<b>ISS-2720H</b>
<b>Pick Up Element</b>	1/2" Sony ExView HAD CCD Sensor
<b>D.S.P.</b>	Sony Digital Signal Processor
<b>Picture Element</b>	NTSC: 811(H) x 508(V) ; PAL: 795(H) x 596(V)
<b>Horizontal Frequency</b>	NTSC: 15.734 KHz. ; PAL: 15.625 KHz.
<b>Vertical Frequency</b>	NTSC: 59.94 Hz. ; PAL: 50 Hz.
<b>Synchronization</b>	Internal / AC Line Lock Sync.
<b>Scanning System</b>	2 : 1 Interlace
<b>Resolution</b>	Horizontal 480 TV Lines / 520 TV Lines (Y/C Output)
<b>Low-light Sensitivity</b>	0.05 Lux @F1.2
<b>S/N Ratio</b>	More than 50 dB (AGC OFF)
<b>Electronic Shutter</b>	Auto: 1/60 (50) sec. ~ 1/100,000 sec. ; Off: 8-step Manual Shutter Speed (1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000 & 1/10,000 sec.) Adjustable
<b>White Balance</b>	Auto White Balance (AWB) / Push Lock White Balance (PWB) Adjustable
<b>Backlight Compensation</b>	BLC On/Off Adjustable
<b>Gain Control</b>	AGC On/Off Adjustable
<b>Auto Iris</b>	Accept Video & D.C. Iris Lens
<b>Back Focus</b>	External Back Focus Adjusting
<b>Video Output</b>	1.0 Vp-p Composite Video Output ; 75 Ohm
<b>Lens Mount</b>	C/CS (with Ring Adapter)
<b>Operating Temperature</b>	- 10 ~ + 50 degree C / RH 85% or Less
<b>Power Consumption</b>	Max. 3.5 W
<b>Power Supply</b>	DC 12V/AC 24V or AC 90V ~ 260V
<b>Dimension</b>	60mm (W) x 50mm (H) x 119mm (D)
<b>Weight</b>	DC: 350 grams ; AC: 600 grams

## Model no. ISS -5120HQ 1/3" Sony HQ1 Super HAD CCD Sensor



**Features:**

- ▶ 1/3" Sony HQ1 Super HAD CCD Sensor
- ▶ Sony Digital Signal Processor
- ▶ Environmental-Friendly Lead-Free Product
- ▶ NTSC: 811 x 508 / PAL: 752 x 582 Pixels
- ▶ 550 TV Lines High Resolution
- ▶ 0.15 Lux @F1.2
- ▶ AGC / S. AGC Adjustable
- ▶ AES On/Off Adjustable
- ▶ Flickerless On/Off Adjustable
- ▶ BLC On/Off Adjustable
- ▶ Auto White Balance
- ▶ AC Line Lock Sync.
- ▶ Accept Video & D.C. Iris Lens
- ▶ Mechanical Back Focus Adjusting
- ▶ DC 12V/AC 24V Dual Power or AC 90V ~ 260V

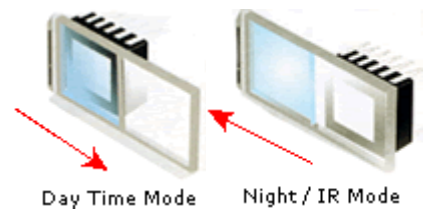
**Specifications:**

<b>Model</b>	<b>ISS-5120HQ</b>
<b>Pick Up Element</b>	1/3" Sony HQ1 Super HAD CCD Sensor
<b>D.S.P.</b>	Sony Digital Signal Processor
<b>Picture Element</b>	NTSC: 811(H) x 508(V) ; PAL: 752(H) x 582(V)
<b>Horizontal Frequency</b>	NTSC: 15.734 KHz. ; PAL: 15.625 KHz.
<b>Vertical Frequency</b>	NTSC: 59.94 Hz. ; PAL: 50 Hz.
<b>Synchronization</b>	Internal / AC Line Lock Sync.
<b>Scanning System</b>	2 : 1 Interlace
<b>Resolution</b>	Horizontal 550 TV Lines
<b>Low-light Sensitivity</b>	0.15 Lux @F1.2
<b>S/N Ratio</b>	More than 50 dB (AGC OFF)
<b>Electronic Shutter</b>	AES ON: 1/60 (50) sec. ~ 1/100,000 sec. ; OFF: 1/60(50) sec.
<b>White Balance</b>	Auto White Balance (AWB)
<b>Backlight Compensation</b>	BLC On/Off Adjustable
<b>Gain Control</b>	AGC / S. AGC Gain Adjustable
<b>Flickerless (F.L.)</b>	On/Off Adjustable
<b>Lead-Free</b>	Produced with Environmental-Friendly Lead-Free Technology
<b>Auto Iris</b>	Accept Video & D.C. Iris Lens
<b>Back Focus</b>	External (Mechanical) Back Focus Adjustment
<b>Video Output</b>	1.0 Vp-p Composite Video Output ; 75 Ohm
<b>Lens Mount</b>	C/CS (with Ring Adapter)
<b>Operating Temperature</b>	- 10 ~ + 50 degree C / RH 85% or Less
<b>Power Consumption</b>	3.5 W (for Model with DC 12V/AC 24V Power) ; 4.5 W (for Model with AC 90V-260V Power)
<b>Power Supply</b>	DC 12V/AC 24V Dual Power or AC 90V ~ 260V Power
<b>Dimension</b>	60mm (W) x 49mm (H) x 99mm (D)
<b>Weight</b>	250 Grams (for Model with DC 12V/AC 24V Power) ; 300 Grams (for Model with AC 90V~260V Power)



## Mechanical IR-cut Filter Switchable

With mechanical shutter design for switching the IR-cut Filter to assure the camera delivering accurate color reproduction both on day time surveillance and night time (with IR) surveillance.



## Model no. ISS –DN3520H-MIR 1/3" Sony Super HAD CCD Sensor



### Features:

- ▶ 1/3" Sony Super HAD CCD Sensor
- ▶ NTSC: 811 x 508 / PAL: 795 x 596 Pixels
- ▶ 480 TV Lines / 520 TV Lines (Y/C)
- ▶ 0.15 Lux @F1.2 / 0.001 Lux @F1.2 with IR
- ▶ Auto Switching of IR-cut Filter
- ▶ Automatically Switching Color Image to B/W Image Under 3 Lux Lighting
- ▶ Y/C Output
- ▶ AWB / PWB White Balance Mode Adjustable
- ▶ AGC On/Off Adjustable
- ▶ BLC On/Off Adjustable
- ▶ AES On/Off Adjustable
- ▶ 8-step Manual Shutter Speed
- ▶ 700 ~ 1100nm IR Sensitivity
- ▶ AC Line Lock Sync.
- ▶ Accept Video & D.C. Iris Lens
- ▶ DC 12V/AC 24V or AC 90V ~ 260V

### Specifications:

<b>Model</b>	<b>JCC-DN3520H-MIR</b>
<b>Pick Up Element</b>	1/3" Sony Super HAD CCD Sensor
<b>D.S.P.</b>	Sony Digital Signal Processor
<b>Picture Element</b>	NTSC: 811(H) x 508(V) ; PAL: 795(H) x 596(V)
<b>Horizontal Frequency</b>	NTSC: 15.734 KHz. ; PAL: 15.625 KHz.
<b>Vertical Frequency</b>	NTSC: 59.94 Hz. ; PAL: 50 Hz.
<b>Synchronization</b>	Internal / AC Line Lock Sync.
<b>Scanning System</b>	2 : 1 Interlace
<b>Resolution</b>	Horizontal 480 TV Lines / 520 TV Lines (Y/C Output)
<b>Low-light Sensitivity</b>	0.15 Lux @F1.2 without IR Illuminator ; 0.001 Lux @F1.2 with IR Illuminator
<b>S/N Ratio</b>	More than 50 dB (AGC OFF)
<b>IR-cut Filter Switching</b>	Mechanical IR-cut Filter: Auto / Manual ; Color / Monochrome Adjustable
<b>Night Switching</b>	Automatically Switch Color Image to B/W Image When the Lighting Drops down to 3 Lux
<b>Infra Red Sensitivity</b>	700 ~ 1100nm
<b>Electronic Shutter</b>	AES ON: 1/60 (50) sec. ~ 1/100,000 sec. ; OFF: 1/50(60) sec.
<b>Flickerless</b>	8-step Shutter Speed: 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 sec. Adjustable
<b>White Balance</b>	Auto White Balance (AWB) / Push Lock White Balance (PWB) Adjustable



<b>Backlight Compensation</b>	BLC On/Off Adjustable
<b>Gain Control</b>	AGC On/Off Adjustable
<b>Auto Iris</b>	Accept Video & D.C. Iris Lens
<b>Video Output</b>	1.0 Vp-p Composite Video Output ; 75 Ohm
<b>Lens Mount</b>	C/CS (with Ring Adapter)
<b>Operating Temperature</b>	- 10 ~ + 50 degree C / RH 85% or Less
<b>Power Consumption</b>	Max. 3.5 W
<b>Power Supply</b>	DC 12V/AC 24V or AC 90V ~ 260V
<b>Dimension</b>	60mm (W) x 50mm (H) x 119mm (D)
<b>Weight</b>	650 grams

## Model no. ISS –DN3720H-MIR 1/3" Sony ExView HAD CCD Sensor



### Features:

- ▶ 1/3" Sony ExView HAD CCD Sensor
- ▶ NTSC: 811 x 508 / PAL: 795 x 596 Pixels
- ▶ 480 TV Lines / 520 TV Lines (Y/C)
- ▶ 0.05 Lux @F1.2 / 0.001 Lux @F1.2 with IR
- ▶ Auto Switching of IR-cut Filter
- ▶ Automatically Switching Color Image to B/W Image Under 3 Lux Lighting
- ▶ Y/C Output
- ▶ AWB / PWB White Balance Mode Adjustable
- ▶ AGC On/Off Adjustable
- ▶ BLC On/Off Adjustable
- ▶ AES On/Off Adjustable
- ▶ 8-step Manual Shutter Speed
- ▶ 700 ~ 1100nm IR Sensitivity
- ▶ AC Line Lock Sync.
- ▶ Accept Video & D.C. Iris Lens
- ▶ DC 12V/AC 24V or AC 90V ~ 260V

### Specifications:

<b>Model</b>	<b>JCC-DN3720H-MIR</b>
<b>Pick Up Element</b>	1/3" Sony ExView HAD CCD Sensor
<b>D.S.P.</b>	Sony Digital Signal Processor
<b>Picture Element</b>	NTSC: 811(H) x 508(V) ; PAL: 795(H) x 596(V)
<b>Horizontal Frequency</b>	NTSC: 15.734 KHz. ; PAL: 15.625 KHz.
<b>Vertical Frequency</b>	NTSC: 59.94 Hz. ; PAL: 50 Hz.
<b>Synchronization</b>	Internal / AC Line Lock Sync.
<b>Scanning System</b>	2 : 1 Interlace
<b>Resolution</b>	Horizontal 480 TV Lines / 520 TV Lines (Y/C Output)
<b>Low-light Sensitivity</b>	0.05 Lux @F1.2 without IR Illuminator ; 0.001 Lux @F1.2 with IR Illuminator
<b>S/N Ratio</b>	More than 50 dB (AGC OFF)
<b>IR-cut Filter Switching</b>	Mechanical IR-cut Filter: Auto / Manual ; Color / Monochrome Adjustable
<b>Night Switching</b>	Automatically Switch Color Image to B/W Image When the Lighting Drops down to 3 Lux
<b>Infra Red Sensitivity</b>	700 ~ 1100nm



<b>Electronic Shutter</b>	AES ON: 1/60 (50) sec. ~ 1/100,000 sec. ; OFF: 1/50(60) sec.
<b>Flickerless</b>	8-step Shutter Speed: 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000 sec. Adjustable
<b>White Balance</b>	Auto White Balance (AWB) / Push Lock White Balance (PWB) Adjustable
<b>Backlight Compensation</b>	BLC On/Off Adjustable
<b>Gain Control</b>	AGC On/Off Adjustable
<b>Auto Iris</b>	Accept Video & D.C. Iris Lens
<b>Video Output</b>	1.0 Vp-p Composite Video Output ; 75 Ohm
<b>Lens Mount</b>	C/CS (with Ring Adapter)
<b>Operating Temperature</b>	- 10 ~ + 50 degree C / RH 85% or Less
<b>Power Consumption</b>	Max. 3.5 W
<b>Power Supply</b>	DC 12V/AC 24V or AC 90V ~ 260V
<b>Dimension</b>	60mm (W) x 50mm (H) x 119mm (D)
<b>Weight</b>	650 grams



# B/W CAMERA





## ISS-391 ISS-393 1/3" Panasonic B/W CCD Sensor



### Features:

- ▶ 1/3" Panasonic B/W CCD Sensor
- ▶ ISS-391: EIA: 537 x 505 ; CCIR: 537 x 597 Pixels
- ▶ ISS-393: EIA: 771 x 492 ; CCIR: 753 x 582 Pixels
- ▶ 450 TV Lines (ISS-391) / 600 TV Lines (ISS-393)
- ▶ 0.05 Lux @F1.2
- ▶ AGC On/Off
- ▶ AES On/Off
- ▶ BLC On/Off
- ▶ AC Line Lock Sync. (Optional for AC Model)
- ▶ Accept Video & D.C. Iris Lens
- ▶ DC 12V, DC 12V/AC 24V or AC 90V ~ 260V

### Specifications:

Model	ISS-391	ISS-393
Pick Up Element	1/3" Panasonic B/W CCD Sensor	
Picture Element	EIA: 537(H) x 505(V)	EIA: 771(H) x 492(V)
	CCIR: 537(H) x 597(V)	CCIR: 753(H) x 582(V)
Horizontal Frequency	EIA: 15.734 KHz. ; CCIR: 15.625 KHz.	
Vertical Frequency	EIA: 59.94 Hz. ; CCIR: 50 Hz.	
Scanning System	2 : 1 Interlace	
Synchronization	Internal	Internal / AC Line Lock Sync.
Resolution	Horizontal 450 TV Lines	Horizontal 600 TV Lines
Low-light Sensitivity	0.05 Lux @F1.2	0.05 Lux @F1.2
S/N Ratio	More than 48 dB (AGC OFF)	
Gain Control	AGC On/Off Adjustable	
Electronic Shutter	Auto: 1/60 (50) sec. ~ 1/100,000 sec. ; Off: 1/60 (50) sec.	
Backlight Compensation	BLC On/Off Adjustable	
Auto Iris	Accept Video & D.C. Iris Lens	
Video Output	1.0 Vp-p Composite Video Output ; 75 Ohm	
Lens Mount	C/CS (with Ring Adaptor)	
Operating Temperature	- 10 ~ + 50 degree C/RH 85% or Less	
Power Consumption	Max. 1.2 W	Max. 1.5 W
Power Supply	DC 12V, DC 12V/AC 24V or AC 90V ~ 260V	
Dimension	DC: 52mm (W) x 47mm (H) x 80mm (D) ; AC: 52mm (W) x 47mm (H) x 105mm (D)	
Weight	DC: 300 grams ; AC: 650 grams	



## ISS-VA391 ISS-VA393 1/3" Panasonic B/W CCD Sensor



### Features:

- ▶ 1/3" Panasonic B/W CCD Sensor
- ▶ JBC-VA391: EIA: 537 x 505 / CCIR: 537 x 597 Pixels
- ▶ JBC-VA393: EIA: 811 x 508 / CCIR: 795 x 596 Pixels
- ▶ 460 TV Lines (JBC-VA391) / 580 TV Lines (JBC-VA393)
- ▶ 0.03 Lux @F1.6 (JBC-VA391) / 0.05 Lux @F1.6 (JBC-VA393)
- ▶ AGC On/Off
- ▶ AES On/Off
- ▶ BLC On/Off
- ▶ 3.5mm~8.0mm/F1.6 Auto Iris Lens Built-in
- ▶ DC 12V/AC 24V or AC 90V ~ 260V
- ▶ Optional Lens:
  - 2.6mm ~ 6.0mm Auto Iris Lens
  - 9.0mm ~ 22.0mm Auto Iris Lens

### Specifications:

Model	ISS-VA391	ISS-VA393
Pick Up Element	1/3" Panasonic B/W CCD Sensor	
Picture Element	EIA: 537(H) x 505(V) CCIR: 537(H) x 597(V)	EIA: 811(H) x 508(V) CCIR: 795(H) x 596(V)
Horizontal Frequency	EIA: 15.734 KHz. ; CCIR: 15.625 KHz.	
Vertical Frequency	EIA: 59.94 Hz. ; CCIR: 50 Hz.	
Synchronization	Internal	
Scanning System	2 : 1 Interlace	
Resolution	Horizontal 460 TV Lines	Horizontal 580 TV Lines
Low-light Sensitivity	0.03 Lux @F1.6	0.05 Lux @F1.6
Gain Control	AGC On/Off Adjustable	
Electronic Shutter	AES On/Off Adjustable	
Backlight Compensation	BLC On/Off Adjustable	
S/N Ratio	More than 48 dB (AGC OFF)	
Gamma Correction	r = 0.45	
Lens Built-in	3.5mm ~ 8.0mm/F1.6 DC Auto Iris Lens	
Video Output	1.0 Vp-p Composite Video Output ; 75 Ohm	
Operating Temperature	- 10 ~ + 50 degree C/RH 85% or Less	
Power Consumption	Max. 1.6 W	
Power Supply	DC 12V/AC 24V or AC 90V ~ 260V	
Dimension	55mm (W) x 47mm (H) x 140mm (D)	
Weight	DC: 300 grams ; AC: 350 grams	
Optional Lens	2.6mm ~ 6.0mm/F1.6 DC Auto Iris Lens 9.0mm ~ 22.0mm/F2.0 DC Auto Iris lens	



## ISS-397 ISS-399 ▶ 1/3" 1/3" Sony ExView HAD CCD Sensor



### Features:

- ▶ 1/3" Sony ExView HAD CCD Sensor
- ▶ JBC-397: EIA: 537 x 505 / CCIR: 537 x 597 Pixels
- ▶ JBC-399: EIA: 811 x 508 / CCIR: 795 x 596 Pixels
- ▶ 520 TV Lines (JBC-397) / 650 TV Lines (JBC-399)
- ▶ 0.003 Lux @F1.2 (JBC-397) / 0.005 Lux @F1.2 (JBC-399)
- ▶ Auto Gain Control (AGC)
- ▶ AES On/Off
- ▶ BLC On/Off
- ▶ AC Line Lock Sync.
- ▶ Accept Video & D.C. Iris Lens
- ▶ DC 12V, DC 12V/AC 24V or AC 90V ~ 260V

### Specifications:

Model	ISS-397	ISS-399
Pick Up Element	1/3" Sony ExView HAD CCD Sensor	
Picture Element	EIA: 537(H) x 505(V) CCIR: 537(H) x 597(V)	EIA: 811(H) x 508(V) CCIR: 795(H) x 596(V)
Horizontal Frequency	EIA: 15.734 KHz. ; CCIR: 15.625 KHz.	
Vertical Frequency	EIA: 59.94 Hz. ; CCIR: 50 Hz.	
Scanning System	2 : 1 Interlace	
Synchronization	Internal / AC Line Lock Sync.	
Resolution	Horizontal 520 TV Lines	Horizontal 650 TV Lines
Low-light Sensitivity	0.003 Lux @F1.2	0.005 Lux @F1.2
Gain Control	Automatic Gain Control (AGC)	
Electronic Shutter	Auto: 1/60(50) sec. ~ 1/100,000 sec. ; Off: 1/60(50) sec.	
Backlight Compensation	BLC On/Off Adjustable	
S/N Ratio	More than 50 dB (AGC OFF)	
Auto Iris	Accept Video & D.C. Iris Lens	
Video Output	1.0 Vp-p Composite Video Output ; 75 Ohm	
Lens Mount	C/CS (with Ring Adaptor)	
Operating Temperature	- 10 ~ + 50 degree C / RH 85% or Less	
Power Consumption	Max. 2.0 W	Max. 2.0 W
Power Supply	DC 12V, DC 12V/AC 24V or AC 90V ~ 260V	
Dimension	DC: 52mm (W) x 47mm (H) x 105mm (D) ; AC: 52mm (W) x 47mm (H) x 120mm (D)	
Weight	DC: 350 grams ; AC: 650 grams	

