

# Powerful CCTV System Provider

ELLIM continues to supply digitalized various surveillance system and high-performance security units which are equipped with the most sophisticated technologies - most stable surveillance systems for most complicated security circumstances - for security of your life & property



ENGINE CAMERA



ELIM

# Engine CAMERA

1/3 inch HIGH SENSITIVE SHARP  
Day & night IR LED CAMERA



ENG -3356W

## KEY FEATURES

- World finest Visible 850nm IR LED x 56ea Built-in  
(World longest visibility Range : Real 30M (Approx. 90feet))
- 1/3" SHARP High Sensitive 380TVL High Performance image Sensor  
(Min Illumination : 0.056lux(LED OFF))
- Color at Day time and B/W at Night time controlled by CDS Sensor without Random noise
- Dynamic IR LED ON/OFF controlled by Digitalized CDS Sensor  
- No malfunctions at dawn, dusk or any twilight time
- Stable Electronic current supply controlled by digitalized mechanism
- ILCG™ - IR LED Contrast filtered-Front Cover Glass  
- No Fluorescent material, No dye Glass For long Range IR LED Light distance without any interference.
- IR LED CUT coated CDS Sensor Built-in – Sensoring all of spectrum precisely and automatically.
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection through control Electronic Current.
- Accidental Surge from air and Shock Protector Built-in for stable application.
- Reverse Polarity Power Protection Circuit Built-in and extremely Low Power Consumption
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Extremely High Electronic Voltage Tolerance level – Min.20V ~ Max.19V for high performance



# Engine CAMERA

1/3 inch SONY SUPER HAD  
480TVL IR LED CAMERA



ENG -5056WT

## KEY FEATURES

- World finest Visible 850nm IR LED x 56ea Built-in  
(World longest visibility Range : Real 50M (Approx. 150feet))
- 1/3" SONY SUPER HAD 480TVL image Sensor Built-in  
(Min Illumination : 0.3lux(LED OFF))
- TMIC™ - Triple Micom (Digital Micro Processor) IC Control System Built-in.
  - True color at Day Time and True B/W at night time controlled by digital TMIC™ - No Color Signal at Night!! Noise free!!
  - Accurate IR LED ON/OFF controlled by Digital TMIC™ - No ghost effects or malfunctions at dawn, dusk or any twilight time
  - Stable electric current supply for IR LED controlled by Digital TMIC™ - It make longer 3 times of IR LED's life!!
- ILCG™ - IR LED Contrast filtered-Front Cover Glass
  - No Fluorescent material, No dye Glass For long Range IR LED Light distance without any interference.
- IR LED CUT coated CDS Sensor Built-in – Sensoring all of spectrum precisely and automatically.
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection through control Electronic Current.
- Accidental Surge from air and Shock Protector Built-in for stable application.
- Reverse Polarity Power Protection Circuit Built-in and extremely Low Power Consumption.
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Extremely High Electronic Voltage Tolerance level – Min.7V ~ Max.32V for high performance



# Engine CAMERA

## SPECIFICATION

MODEL	ENG – 3356W	ENG-5056WT
Image Sensor	1/3" SHARP High Sensitive Newest 603 Version	1/3" SONY SUPER HAD
H. Resolution/ Scanning System	NTSC/PAL – 380TVL(2:1 Interlaced)	
	NTSC(525TVL) : 512x492, PAL(625TVL) : 500x582	
Min. Illumination	<b>0.056Lux (IR LED OFF)</b>	<b>0.1Lux (IR LED OFF)</b>
Scanning Frequency	Horizontal:15,734Hz, Vertical:59,94Hz	
Video output Level	1.0Vp-p (75ohms, Composite)	
S/N Ratio	More than 48dB(AGC Off)	More than 50dB(AGC Off)
Gamma	$r = 0.45$ or more	
White Balance	2,100°K – 9,200°K - Auto	
Gain Control	4dB – 32dB - Auto	
IR LED Capability	Visible 5mm Diameter (850nm, 20°)x56ea	Visible 5mm Diameter (850nm, 20°)x40ea
	Dynamic IR LED On/Off	Visible 5mm Diameter (850nm, 30°)x16ea
Visibility Range	Real 30 Meter ( Approx. 90 Feet ) / Max 40 Meter (120Feet)	Real 50 Meter ( Approx. 150 Feet )
CDS Sensor	Digital MICOM IC Controlled IR LED On/Off at 5 Lux	
Color / BW Control	Color at Day time & B/W at Night time	
	Digital MICOM IC Controlled Color Signal Changeable.	
Operating Temperature (Humidity)	- 20°C - +60°C (10% - 95% RH)	
Lens	STD Lens : f = 8.0mm IR Lens (AOV : 68°)	
	3.6mm / 4.3mm / 6mm / 12mm / 16mm	
MTTF	80,000 Hour (Easy Changeable IR LED 80,000 Hour)	
Power Source	DC12V 1A Regulated (Normal)	DC12V 1A Regulated (Normal)
	DC8V -20V (Input Power:Max.560mA)	DC7V -32V TMIC™ (Input Power:Max.560mA)
Dimensions (WxHxD/mm)	82.0 x 76.0 x 71.0 (w/Sunshield)	
Net Weight	480g (w/Sunshield)	420g (w/Sunshield)



## Engine CAMERA

240feet(80M) Nightview Digitalized  
IR LED Weatherproof CAMERA



ENG -5004WT

### ● KEY FEATURES

- World greatest Visible 850nm IR LED x 105ea Built-in  
(World longest visibility Range : Real 80M (Approx. 240feet))
- 1/3" SONY SUPER HAD 380TVL image Sensor Built-in  
(Min Illumination : 0.1lux(LED OFF))
- TMIC™ – Triple Micom (Digital Micro Processor) IC Control System Built-in
  - True color at day Time and True B/W at night time controlled by Digital TMIC™
  - Accurate IR LED ON/OFF controlled by Digital TMIC™
  - Stable Electric current supply for IR LED controlled by Digital TMIC™
- ZLCG™ - IR LED Light Enhanced Front Cover Glass( World First Coated Polycarbonate Front Cover)
- Digitalized CDS Sensor Built-in – Sensoring all of Spectrum precisely and changing Digital Signal automatically.
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection.
- Accidental Surge and Shock Protector Built-in.
- Reverse Polarity Power Protection Circuit Built-in
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Easy First-Aid mechanism – All of parts exchangeable easily by user (Including IR LED Board)





# Engine CAMERA

## SPECIFICATION

ENG – 5004WT	
Image Sensor	1/3" SONY SUPER HAD (270K Pixels.)
H. Resolution/ Scanning System	NTSC/PAL – 380TVL(2:1 Interlaced)
	NTSC(525TVL) : 512x492, PAL(625TVL) : 500x582
Min. Illumination	0.1Lux (IR LED OFF)
Scanning Frequency	Horizontal:15,734Hz, Vertical:59,94Hz
Video output Level	1.0Vp-p (75ohms, Composite)
S/N Ratio	More than 50dB(AGC Off)
Gamma	$\gamma = 0.45$ or more
White Balance	2,100°K - 9100°K - Auto
Gain Control	4dB – 32dB - Auto
IR LED Capability	Visible 5mm Diameter (850nm, 20°)x105ea
	Visible 5mm Diameter (850nm, 30°)x105ea
Visibility Range	World longest 80Meter(Approx. 240Feet.)
CDS Sensor	TMIC™ Controlled IR LED On/Off at 3Lux
Color / BW Control	True Color at Day time & True B/W at Night time
	TMIC™ Controlled Color Signal Changeable.
Operating Temperature (Humidity)	- 20°C - +60°C (10% - 95% RH)
Lens	STD Lens : f = 6.0mm IR Lens (AOV : 74°)
	3.6mm / 4.3mm / 8mm / 12mm / 16mm
MTTF	20,000 Hour (Easy Changeable IR LED 20,000 Hour)
Power Source	DC12V 1A Regulated (Normal)
	DC8V -20V TMIC™ controlled (Input Power 600mA)
Dimensions (WxHxD/mm)	110 x 100 x 71 (w/Sunshield)
Net Weight	720g (w/Sunshield)



# Engine CAMERA

1/3 inch HIGH SENSITIVE SHARP  
Day & night IR LED CAMERA



ENG -3304W

## KEY FEATURES

- World finest Visible 850nm IR LED x 105ea Built-in  
(World longest visibility Range : Real 50M (Approx. 150feet))
- 1/3" SHARP High Sensitive 380TVL High Performance image Sensor Built-in  
(Min Illumination : 0.056lux(LED OFF))
- Color at Day time and B/W at Night time controlled by CDS Sensor without Random noise
- Dynamic IR LED ON/OFF controlled by Digitalized CDS Sensor  
- No malfunctions at dawn, dusk or any twilight time
- Stable Electric current supply controlled by digitalized mechanism
- ILCG™ - IR LED Contrast filtered-Front Cover Glass  
- No Fluorescent material, No dye Glass For long Range IR LED Light distance without any interference.
- IR LED CUT coated CDS Sensor Built-in – Sensoring all of spectrum precisely and automatically.
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection through control Electronic Current.
- Accidental Surge from air and Shock Protector Built-in for stable application.
- Reverse Polarity Power Protection Circuit Built-in and extremely Low Power Consumption
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Extremely High Electronic Voltage Tolerance level – Min.8V ~ Max.20V for high performance
- Easy First-Aid mechanism – All of parts exchangeable easily by User (Including IR LED Board)



# Engine CAMERA

## SPECIFICATION

ENG – 3304W	
Image Sensor	1/3" SHARP IR filtered super Sensitive
H. Resolution/ Scanning System	NTSC/PAL – 380TVL(2:1 Interlaced)
	NTSC(525TVL) : 512x492, PAL(625TVL) : 500x582
Min. Illumination	<b>0.056Lux (IR LED OFF)</b>
Scanning Frequency	Horizontal:15,734Hz, Vertical:59,94Hz
Video output Level	1.0Vp-p (75ohms, Composite)
S/N Ratio	More than 48dB(AGC Off)
Gamma	$\gamma = 0.45$ or more
White Balance	2,100°K - 9200°K - Auto
Gain Control	4dB – 32dB - Auto
IR LED Capability	Visible 5mm Diameter (850nm, 30°)x56ea
	Dyanamic IR LED On/Off
Visibility Range	Real 50 Meter ( Approx. 180 Feet )
CDS Sensor	Digital MICOM IC Controlled IR LED On/Off at 5 Lux
Color / BW Control	Color at Day time & B/W at Night time
	Digital MICOM IC Controlled Color Signal Changeable.
Operating Temperature (Humidity)	- 10°C - +60°C (10% - 95% RH)
Lens	STD Lens : f = 6.0mm IR Lens (AOV : 68°)
	3.6mm / 4.3mm / 8mm / 12mm / 16mm
MTTF	80,000 Hour (Easy Changeable IR LED 80,000 Hour)
Power Source	DC12V 1.5A Regulated (Normal)
	<b>DC8V -20V (Input Power:Max.720mA)</b>
Dimensions (WxHxD/mm)	110 x 100 x 71(w/Sunshield)
Net Weight	680g (w/Sunshield)





## Engine CAMERA

WORLD FINEST 100MA high light  
IR LED BUILT-IN



### ● KEY FEATURES

ENG -5012W

- World Best 100mA Visible 850nm IR LED x 12ea Built-in  
(visibility Range : Real 10M (Approx. 30feet))
- 1/3" SONY SUPER HAD 420TVL High Performance image Sensor Built-in  
(Min Illumination : 0.1lux(LED OFF))
- Color at Day time and B/W at Night time controlled by CDS Sensor without noise
- Dynamic IR LED ON/OFF controlled by Digitalized CDS Sensor  
- No missed malfunctions at dawn, dusk or any twilight time
- Stable Electric current supply controlled by Digitalized mechanism
- ILCG™ - IR LED Contrast filtered-Front Cover Glass (Manufactured by SCHOTT AG, Germany)  
- No Fluorescent material, No dye Glass For long Range IR LED Light distance without any interference.
- IR LED CUT coated CDS Sensor Built-in – Sensoring all of spectrum precisely and automatically.
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection through control Electronic Current.
- Accidental Surge from air and Shock Protector Built-in for stable application.
- Reverse Polarity Power Protection Circuit Built-in and extremely Low Power Consumption
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Extremely High Electronic Voltage Tolerance level – Min.8V ~ Max.19V for high performance



# Engine CAMERA

## SPECIFICATION

ENG – 5012W	
Image Sensor	1/3" SONY SUPER HAD (270K Pixels.)
H. Resolution/ Scanning System	NTSC/PAL – 420TVL(2:1 Interlaced)
	NTSC(525TVL) : 512x492, PAL(625TVL) : 500x582
Min. Illumination	0.1Lux / F1.6 (IR LED OFF)
Scanning Frequency	Horizontal:15,734Hz(NTSC) / 15,625Hz(PAL)
Video output Level	1.0Vp-p (75ohms, Composite)
S/N Ratio	More than 50dB(AGC Off)
Gamma	$\gamma = 0.45$
White Balance	2,100°K - 9500°K - Auto
Gain Control	4dB – 32dB - Auto
IR LED Capability	<b>100mA</b> Visible 10mm Diameter (850nm)x12ea
	Each channel have 100mA Max.
Visibility Range	Real 10 Mete or more ( Approx. 30 Feet )
CDS Sensor	IR CUT coated CDS Sensor control IR LED On/OFF at 4-10Lux
	Dynamic IR LED Turn On & Off automatically
Color / BW Control	Color at Day time & B/W at Night time changed automatically
Operating Temperature (Humidity)	- 20°C - +60°C (10% - 95% RH)
Lens	STD Lens : f = 4.0mm IR Lens (AOV : 86° Max)
	3.6mm / 4.3mm / 6mm / 8mm / 12mm
MTTF	20,000 Hour (Easy Changeable IR LED 20,000 Hour)
Power Source	DC12V 280mA Regulated (Normal)
	DC8V -22V –High Tolerance
Dimensions (WxHxD/mm)	82.0 x 76.0 x 71.0(w/Sunshield)
Net Weight	210g (w/Sunshield)



# Engine CAMERA

WORLD FINEST 100MA high light  
IR LED BUILT-IN



## KEY FEATURES

ENG -3212W

- World Best 100mA Visible 850nm IR LED x 12ea Built-in  
(visibility Range : Real 10M (Approx. 30feet))
- 1/4" SHARP High Sensitive 380TVL High Performance image Sensor Built-in  
(Min Illumination : 0.5lux(LED OFF))
- Color at Day time and B/W at Night time controlled by CDS Sensor without noise
- Dynamic IR LED ON/OFF controlled by Digitalized CDS Sensor  
- No missed malfunctions at dawn, dusk or any twilight time
- Stable Electric current supply controlled by Digitalized mechanism
- ILCG™ - IR LED Contrast filtered-Front Cover Glass (Manufactured by SCHOTT AG, Germany)  
- No Fluorescent material, No dye Glass For long Range IR LED Light distance without any interference.
- IR LED CUT coated CDS Sensor Built-in – Sensoring all of spectrum precisely and automatically.
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection through control Electronic Current.
- Accidental Surge from air and Shock Protector Built-in for stable application.
- Reverse Polarity Power Protection Circuit Built-in and extremely Low Power Consumption
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Extremely High Electronic Voltage Tolerance level – Min.8V ~ Max.20V for high performance



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# Engine CAMERA

## SPECIFICATION

ENG – 3212W	
Image Sensor	1/4" SHARP High Sensitive (270K Pixels/320K Pixels)
H. Resolution/ Scanning System	NTSC/PAL – 380TVL(2:1 Interlaced)
	NTSC(525TVL) : 512x492, PAL(625TVL) : 500x582
Min. Illumination	0.056Lux / F1.6 (IR LED OFF)
Scanning Frequency	Horizontal:15,734Hz(NTSC) / 15,625Hz(PAL)
Video output Level	1.0Vp-p (75ohms, Composite)
S/N Ratio	More than 48dB(AGC Off)
Gamma	$\gamma = 0.45$
White Balance	2,100°K - 9500°K - Auto
Gain Control	4dB – 32dB - Auto
IR LED Capability	<b>100mA</b> Visible 10mm Diameter (850nm)x12ea
	Each channel have 100mA Max.
Visibility Range	Real 10 Mete or more ( Approx. 30 Feet )
CDS Sensor	IR CUT coated CDS Sensor control IR LED On/OFF at 4-10Lux
	Dynamic IR LED Turn On & Off automatically
Color / BW Control	Color at Day time & B/W at Night time changed automatically
Operating Temperature (Humidity)	- 20°C - +60°C (10% - 95% RH)
Lens	STD Lens : f = 3.6mm IR Lens (AOV : 92° Max)
	4.3mm / 6mm / 8mm / 12mm
MTTF	80,000 Hour (Easy Changeable IR LED 40,000 Hour)
Power Source	DC12V 290mA Regulated (Normal)
	DC8V -20V –High Tolerance
Dimensions (WxHxD/mm)	82.0 x 76.0 x 71.0(w/Sunshield)
Net Weight	210g (w/Sunshield)



## Engine CAMERA

240feet(80M) Nightview Digitalized  
IR LED Weatherproof CAMERA



ENG -2004WT

### ● KEY FEATURES

- World greatest Visible 850nm IR LED x 105ea Built-in  
(World longest visibility Range : Real 80M (Approx. 240feet))
- 1/3" SONY SUPER HAD 480TVL image Sensor Built-in  
(Min Illumination : 0.3lux(LED OFF))
- TMIC™ – Triple Micom (Digital Micro Processor) IC Control System Built-in
  - True color at day Time and True B/W at night time controlled by Digital TMIC™
  - Accurate IR LED ON/OFF controlled by Digital TMIC™
  - Stable Electric current supply for IR LED controlled by Digital TMIC™
- ILCG™ - IR LED Light Enhanced Front Cover Glass( World First Coated Polycarbonate Front Cover)
- Digitalized CDS Sensor Built-in – Sensoring all of Spectrum precisely and changing Digital Signal automatically.
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection.
- Accidental Surge and Shock Protector Built-in.
- Reverse Polarity Power Protection Circuit Built-in
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Easy First-Aid mechanism – All of parts exchangeable easily by user (Including IR LED Board)



# Engine CAMERA

## SPECIFICATION

ENG – 2004WT	
Image Sensor	1/3" SONY SUPER HAD High Resolution (410K Pixels.)
H. Resolution/ Scanning System	NTSC/PAL – 480TVL(2:1 Interlaced)
	NTSC(525TVL) : 768x494, PAL(625TVL) : 752x582
Min. Illumination	0.3Lux (IR LED OFF)
Scanning Frequency	Horizontal:15,734Hz, Vertical:59,94Hz
Video output Level	1.0Vp-p (75ohms, Composite)
S/N Ratio	More than 50dB(AGC Off)
Gamma	$\gamma = 0.45$
White Balance	2,100°K - 9100°K - Auto
Gain Control	4dB – 32dB - Auto
IR LED Capability	Visible 5mm Diameter (850nm, 20°)x63ea
	Visible 5mm Diameter (850nm, 30°)x42ea
Visibility Range	World longest 80Meter(Approx. 240Feet.)
CDS Sensor	TMIC™ Controlled IR LED On/Off at 5Lux
Color / BW Control	True Color at Day time & True B/W at Night time
	TMIC™ Controlled Color Signal Changeable.
Operating Temperature (Humidity)	- 20°C - +60°C (10% - 95% RH)
Lens	STD Lens : f = 6.0mm IR Lens (AOV : 68°)
	3.6mm / 4.3mm / 8mm / 12mm / 16mm
MTBF	20,000 Hour (Easy Changeable IR LED 20,000 Hour)
Power Source	DC12V 1A Regulated (Normal)
	DC9V -15V TMIC™ controlled (Input Power 650mA)
Dimensions (WxHxD/mm)	110 x 100 x 71 (w/Sunshield)
Net Weight	720g (w/Sunshield)





## Engine CAMERA

World First 10mm DIAMETER  
Visible IR LED



ECG -2042WT

### ▶ KEY FEATURES

- World First Powerful 10mm Diameter Visible 850nm IR LED x 42ea Built-in (Visibility Range: Real 80M (Approx. 240Feet))
- 1/3" SONY SUPER HAD 480TVL High Resolution image Sensor Built-in (Min Illumination : 0.3lux(LED OFF))
- TMIC™ - Triple Micom (Digital Micro Processor) IC Control System Built-in.
  - True color at Day Time and True B/W at night time controlled by digital TMIC™ - No Color Signal at Night!! Noise free!!
  - Accurate IR LED ON/OFF controlled by Digital TMIC™ - No ghost effects or malfunctions at dawn, dusk or any twilight time
  - Stable electric current supply for IR LED controlled by Digital TMIC™ - It make longer 3 times of IR LED's life!!
- ILCG™ - IR LED Light Enhanced Front Cover Glass( World First Coated Polycarbonate Front Cover)
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection.
- Accidental Surge and Shock Protector Built-in.
- Reverse Polarity Power Protection Circuit Built-in
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Easy First-Aid mechanism – All of parts exchangeable easily by user (Including IR LED Board)



# Engine CAMERA

## SPECIFICATION

ECG – 2042WT	
Image Sensor	1/3" SONY SUPER HAD High Resolution (410K Pixels.)
H. Resolution/ Scanning System	NTSC/PAL – 480TVL(2:1 Interlaced)
	NTSC(525TVL) : 768x494, PAL(625TVL) : 752x582
Min. Illumination	0.3Lux/F2.0 (IR LED OFF)
Scanning Frequency	Horizontal:15,734Hz, Vertical:59,94Hz
Video output Level	1.0Vp-p (75ohms, Composite)
S/N Ratio	More than 50dB(AGC Off)
Gamma	$\gamma = 0.45$
White Balance	2,100°K – 9,600°K - Auto
Gain Control	4dB – 32dB - Auto
IR LED Capability	World First Visible 10mm Diameter (850nm, 20°) x 42ea
	1EA 5mm dia. IR LED x 2.2times = 1EA 10mm dia. IR LED
Visibility Range	World longest 80Meter(Approx. 240Feet.)
CDS Sensor	Digital MICOM IC controlled IR LED On/Off at 5 Lux
Color / BW Control	True Color at Day time & True B/W at Night time
	TMIC™ Controlled Color Signal Changeable.
Operating Temperature (Humidity)	- 20°C - +60°C (10% - 95% RH)
Lens	STD Lens : f = 12.0mm IR Lens (AOV : 48°)
	8mm / 16mm
MTBF	80,000 Hour (Easy Changeable IR LED 20,000 Hour)
Power Source	DC12V 1A Regulated (Normal)
	DC7V - 32V TMIC™ controlled
Dimensions (WxHxD/mm)	82.0x 76.0 x 71.0 (w/Sunshield)
Net Weight	650g (w/Sunshield)



# Engine CAMERA

World First 10mm DIAMETER  
Visible IR LED



ECG -5042WT

## KEY FEATURES

- World First Powerful 10mm Diameter Visible 850nm IR LED x 42ea Built-in (Visibility Range: Real 80M (Approx. 240Feet))
- 1/3" SONY SUPER HAD 480TVL High Resolution image Sensor Built-in (Min Illumination : 0.3lux(LED OFF))
- TMIC™ - Triple Micom (Digital Micro Processor) IC Control System Built-in.
  - True color at Day Time and True B/W at night time controlled by digital TMIC™ - No Color Signal at Night!! Noise free!!
  - Accurate IR LED ON/OFF controlled by Digital TMIC™ - No ghost effects or malfunctions at dawn, dusk or any twilight time
  - Stable electric current supply for IR LED controlled by Digital TMIC™ - It make longer 3 times of IR LED's life!!
- ILCG™ - IR LED Light Enhanced Front Cover Glass( World First Coated Polycarbonate Front Cover)
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection.
- Accidental Surge and Shock Protector Built-in.
- Reverse Polarity Power Protection Circuit Built-in
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Easy First-Aid mechanism – All of parts exchangeable easily by user (Including IR LED Board)



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# Engine CAMERA

## SPECIFICATION

ECG – 5042WT	
Image Sensor	1/3" SONY SUPER HAD (320K Pixels.)
H. Resolution/ Scanning System	NTSC/PAL – 420TVL(2:1 Interlaced)
	NTSC(525TVL) : 512x492, PAL(625TVL) : 500x582
Min. Illumination	0.1Lux/F2.0 (IR LED OFF)
Scanning Frequency	Horizontal:15,734Hz, Vertical:59,94Hz
Video output Level	1.0Vp-p (75ohms, Composite)
S/N Ratio	More than 50dB(AGC Off)
Gamma	$\gamma = 0.45$
White Balance	2,100°K – 9,600°K - Auto
Gain Control	4dB – 32dB - Auto
IR LED Capability	World First Visible 10mm Diameter (850nm, 15°) x 42ea
	1EA 5mm dia. IR LED x 2.2times = 1EA 10mm dia. IR LED
Visibility Range	Real 80Meter(Approx. 240Feet.)
CDS Sensor	Digital MICOM IC controlled IR LED On/Off at 3 Lux
Color / BW Control	True Color at Day time & True B/W at Night time
	Digital MICOM IC controlled Color Signal Changeable
Operating Temperature (Humidity)	- 20°C - +60°C (10% - 95% RH)
Lens	STD Lens : f = 12.0mm IR Lens (AOV : 48°)
	8mm / 16mm
MTBF	20,000 Hour (Easy Changeable IR LED 20,000 Hour)
Power Source	DC12V 1A Regulated (Normal)
	DC7V - 32V TMIC™ controlled
Dimensions (WxHxD/mm)	82.0x 76.0 x 71.0 (w/Sunshield)
Net Weight	650g (w/Sunshield)



## Engine CAMERA

### Vandalproof Varifocal Bullet CAMERA



#### ● KEY FEATURES

ENG -5000V

- World First Powerful 10mm Diameter Visible 850nm IR LED x 42ea Built-in (Visibility Range: Real 80M (Approx. 240Feet))
- 1/3" SONY SUPER HAD 480TVL High Resolution image Sensor Built-in (Min Illumination : 0.3lux(LED OFF))
- TMIC™ - Triple Micom (Digital Micro Processor) IC Control System Built-in.
  - True color at Day Time and True B/W at night time controlled by digital TMIC™ - No Color Signal at Night!! Noise free!!
  - Accurate IR LED ON/OFF controlled by Digital TMIC™ - No ghost effects or malfunctions at dawn, dusk or any twilight time
  - Stable electric current supply for IR LED controlled by Digital TMIC™ - It make longer 3 times of IR LED's life!!
- ILCG™ - IR LED Light Enhanced Front Cover Glass( World First Coated Polycarbonate Front Cover)
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection.
- Accidental Surge and Shock Protector Built-in.
- Reverse Polarity Power Protection Circuit Built-in
- Robust Vandalproof & Weatherproof (IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- Easy First-Aid mechanism – All of parts exchangeable easily by user (Including IR LED Board)



# Engine CAMERA

## SPECIFICATION

ENG – 5000V	
Image Sensor	1/3" SONY SUPER HAD High Resolution (410K Pixels.)
H. Resolution/ Scanning System	NTSC/PAL – 480TVL(2:1 Interlaced)
	NTSC(525TVL) : 768x494, PAL(625TVL) : 752x582
Min. Illumination	0.3Lux/F2.0 (IR LED OFF)
Scanning Frequency	Horizontal:15,734Hz, Vertical:59,94Hz
Video output Level	1.0Vp-p (75ohms, Composite)
S/N Ratio	More than 50dB(AGC Off)
Gamma	$\gamma = 0.45$
White Balance	2,100°K – 9,600°K - Auto
Gain Control	4dB – 32dB - Auto
IR LED Capability	World First Visible 10mm Diameter (850nm, 20°) x 42ea
	1EA 5mm dia. IR LED x 2.2times = 1EA 10mm dia. IR LED
Visibility Range	World longest 80Meter(Approx. 240Feet.)
CDS Sensor	Digital MICOM IC controlled IR LED On/Off at 5 Lux
Color / BW Control	True Color at Day time & True B/W at Night time
	TMIC™ Controlled Color Signal Changeable.
Operating Temperature (Humidity)	- 20°C - +60°C (10% - 95% RH)
Lens	STD Lens : f = 12.0mm IR Lens (AOV : 48°)
	8mm / 16mm
MTBF	80,000 Hour (Easy Changeable IR LED 20,000 Hour)
Power Source	DC12V 1A Regulated (Normal)
	DC7V - 32V TMIC™ controlled
Dimensions (WxHxD/mm)	82.0x 76.0 x 71.0 (w/Sunshield)
Net Weight	6500g (w/Sunshield)





# Engine CAMERA

Max. 300Feet Digitalized  
IR LED Illuminator



EPL -2160D / 3160D

## KEY FEATURES

- World First 10mA Visible 850nm IR LED x 160ea Built-in  
(20 degree – Visible Range: Real 100M (Approx. 300f) / 30 degree-Visibility Range: Real 80M(Approx. 240ft)
- Dynamic IR LED On/OFF controlled by Digitalized CDS Sensor
- Stable Electric current supply controlled by Digitalized mechanism
- ILCG™ - IR LED Contrast filtered-Front Cover Glass (Manufacture by SCHOTT AG, Germany)
- No Fluorescent material, No dye Glass For long Range IR LED Light distance without any interference.
- IR LED CUT Filtered CDS Sensor Built-in-Sensoring all of spectrum precisely and automatically.
- IR LED Temperature Feed back Circuit- Advanced IR LED Protection through control electronic Current.
- Accidental Surge form air and Shock protector Built-in for stable application.
- Reverse Polarity Power protection Circuit built-in and extremely Low Power Consumption
- Robust vandalproof & Weatherproof(IP=67), Tamperproof & Rustproof Aluminum Casing for Outdoor.
- 12V DC/ 24V AC Dual power Automatic changing system (Non-polarity power connection)
- Extremely High Electronic voltage Tolerance level - Min.8V-Max.19V for High performance
- Easy First-Aid mechanism- All of parts exchangeable easily by user (Including IR LED Board)
- Simultaneous effective operating with normal Day & Night Box camera (ex. D&N Cable Connection equipped model)



# Engine CAMERA

## SPECIFICATION

EPL-2160D / 3160D			
IR LED Illumination Degree (1PC)	EPL-2160D : visible IR LED 850nm, 20°		
	EPL-3160D : visible IR LED 850nm, 30°		
No. of IR LED Channel	32 Channel		
Operating Current	100mA MAX. per each channel		
	3 Amp maximum (Including all)		
Visibility Range	EPL-2160D	Projection angle	33° Optimized
		Distance	100m(300ft) Optimized
	EPL-3160D	Projection angle	55° Optimized
		Distance	80m(240ft) Optimized
CDS Sensor	Digital MICOM IC Controlled IR LED On/Off at 5 Lux IR CUT Filtered/Coated Glass CDS Cap Built-in Aluminum Anti-Heating Treatment for cap Simultaneous Operating with Day &Night Camera (Option)		
SHOTT Glass thickness	IR LED Filtered Front Glass 3mm Thickness		
Operating Temperature	- 20℃ - +60℃ (10% - 95% RH)		
	IP Rating = 67 (Perfect weatherproof)		
Maintenance	MTTF	20.000 hour (Average OP Time)	
	MTBF	10,000 hour	
Power Source	DC 12V / 24v AC Dual power available (STD)		
	Power input	DC 12V 3 Amp Adapter (Transformer)	
	Power Tolerance	DC Power Input : DC 12V (10%)	
		AC Power Input : AC 24V (10%)	
Dimensions (WxHxD/mm)	82.0 x 78.0 x 71.0 (w / Sunshield)		
Net Weight	650g (w / Sunshield)		



# Powerful CCTV System Provider

ELLIM continues to supply digitalized various surveillance system and high-performance security units which are equipped with the most sophisticated technologies - most stable surveillance systems for most complicated security circumstances - for security of your life & property



DOME CAMERA

ELIM

## Dome CAMERA

### 1/3" SHARP MINI ALUMINUM VANDALPROOF DOME CAMERA



#### ELECTRONIC FEATURES

- 1/3" SHARP High Sensitive 380TVL/480TVL & STD/High Resolution image Sensor Built-in
- Remarkable color reproduction & high clear coloration
- Outstanding high Sensitivity picture quality under extreme low illumination
- All direction free adjustable Ball type camera built-in for easy installment.
- 70mm dia. Crystal clear polycarbonate dome cover for Vandal-Resistance
- Accidental Surge and Shock Protecting Circuit Built-in.
- Reverse Polarity Power Protection and Wide high-electric tolerance
- Extremely Low Power Consumption
- Strong working power tolerance(8V – 20V DC)

#### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with Free-moving Ball Bracket
- Anodized Aluminum Housing & Various Exchangeable Polycarbonate Cover
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy First-Aid Mechanism-All of parts exchangeable easily by User
- European Stylish design & Scratch-Proof coating

\*Internal/External Audio with C-Microphone “-50dB / mV “ (Option)

\*Wall Mounting Bracket & Ceiling Mounting Bracket (Option)

\*Various Polycarbonate Colored-Circular Dome Cover exchangeable (Option)



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Tel. 82-31-730-8000 Fax. 82-31-730-8201 E-mail : ellima@ellim21.co.kr

# Dome CAMERA

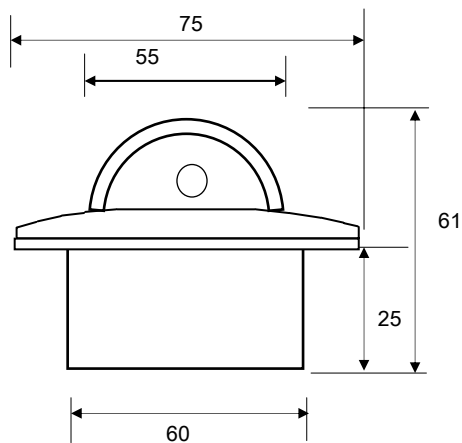
## SPECIFICATION

MODEL	ECR-3270F	ECR-3370F	ECR-3470F
Image Sensor	1/4 " SHARP STD Resolution	1/3 " SHARP STD Resolution	1/3 " SHARP High Resolution
Effect Pixels	NTSC:512(H)x492(V)	NTSC:512(H)x492(V)	NTSC:768(H)x494(V)
	PAL:500(H)x582(V)	PAL:500(H)x582(V)	PAL:752(H)x582(V)
Horizontal Resolution	380 TV Lines	380 TV Lines	480 TV Lines
Synchronizing system	Internal		
Scanning system	NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced		
Video output	1.0Vp-p Composite. 75 Ohms		
S/N Ratio	More than 46dB(AGC Off)	More than 48dB(AGC Off)	More than 48dB(AGC Off)
Min. Illumination	0.5Lux at F2.0	0.5Lux at F2.0	0.3Lux at F2.0
BLC	Automatic Control		
White Balance	2,500°K - 9100°K - Auto Tracing		
Gain Control	4dB – 35dB – Automatic Control		
Gamma correction	$\gamma = 0.45$ or more		
Smear effect	0.005%		
Shutter speed	NTSC : 1/60 ~ 1/100,000 sec		
	PAL : 1/50 ~ 1/100,000 sec		
MTTF	More than 60,000 hours		
Power Source	DC12V Regulated Preferred (Strong Power Tolerance : 8V DC – 20V DC)		
Operation current	80mA/Regulated 12V DC Preferred		
Lens Standard	3.6mm (92°)		
Option	2.9mm(120°), 4.3mm(78°), 6mm(54°), 8mm(39°)		
Operating Temperature	14 °F ~ 135° F ( -10° C ~ +60° C)		
Humidity	Within 90% RH		
Output Termination	2 Feet Shield Cable with		
	RCA-Fe for Video, DC Jack for Power		
	2 Feet Shield Cable with		
	BNC-Fe for Video, DC Jack for Power (STD)		
Measurement (mm)	88(Dia) x 82(H)		
Weight(Approx. g)			



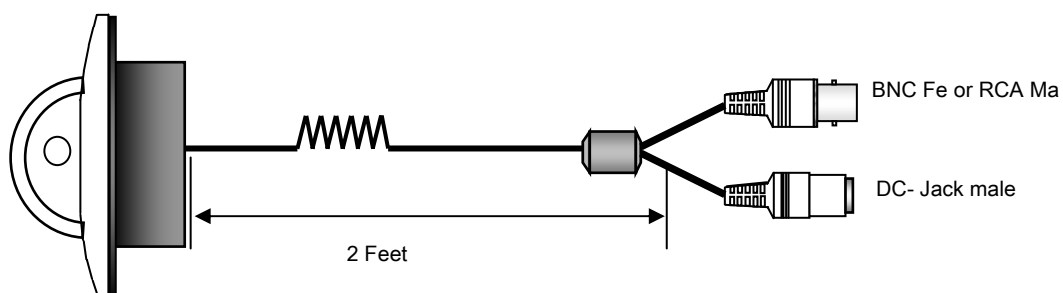
# Dome CAMERA

## Dimension(mm)



## Connection & Cable

BNC-Fe/RCA-Ma, 2Feet(60cm) DIY Cable for Video / DC-Ma for DC Power  
Option 1 : Internal/External Audio with C-Microphone " - 50dB / mV "  
Option 2 : Ceiling Mounting Bracket / Wall mounting Bracket  
Option 3 : Extension Cable ( 60Feet (18m), 90Feet (30m) )





## Dome CAMERA

### 1/3" SONY MINI ALUMINUM VANDALPROOF DOME CAMERA



#### ELECTRONIC FEATURES

- 1/3" SONY SUPER HAD 420TVL/480TVL & STD/High Resolution image Sensor Built-in
- Remarkable color reproduction & high clear coloration
- Outstanding high Sensitivity picture quality under extreme low illumination
- All direction free adjustable Ball type camera built-in for easy installment.
- 70mm dia. Crystal clear polycarbonate dome cover for Vandal-Resistance
- Accidental Surge and Shock Protecting Circuit Built-in
- Reverse Polarity Power Protection and Wide high-electric tolerance
- Extremely Low Power Consumption & Wide working Dual power tolerance

#### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with Free-moving Ball Bracket
- Anodized Aluminum Housing & Various Exchangeable Polycarbonate Cover
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy First-Aid Mechanism-All of parts exchangeable easily by User
- European Stylish design & Scratch-Proof coating

\*Internal/External Audio with C-Microphone “-50dB / mV “ (Option)

\*Wall Mounting Bracket & Ceiling Mounting Bracket (Option)

\*Various Polycarbonate Colored-Circular Dome Cover exchangeable (Option)



# Dome CAMERA

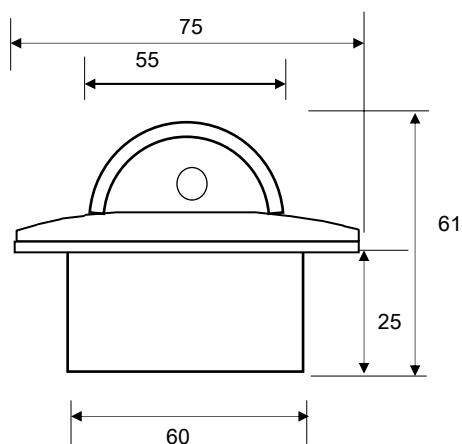
## SPECIFICATION

MODEL	ECR-2070F	ECR-5070F
Image Sensor	1/3 " Super HAD Color CCD, SONY	1/3 " Super HAD Color CCD, SONY
Effect Pixels	NTSC: 768(H)x494(V)	NTSC: 512(H)x492(V)
	PAL: 752(H)x582(V)	PAL: 500(H)x582(V)
Horizontal Resolution	480 TV Lines	420 TV Lines
Synchronizing system	Internal	internal
Scanning system	NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced	
Video output	1.0Vp-p Composite. 75 Ohms	1.0Vp-p Composite. 75 Ohms
S/N Ratio	More than 48dB(AGC Off)	More than 48dB(AGC Off)
Min. Illumination	0.3Lux at F2.0	0.1Lux at F2.0
BLC	Automatic Control	Automatic
White Balance	2,500°K – 9,500°K - Auto Tracing	2,500°K – 9,500°K - Auto Tracing
Gain Control	4dB – 35dB Auto	4dB – 35dB Auto
Gamma correction	$r = 0.45$	$r = 0.45$
Smear effect	0.005%	0.005%
Shutter speed	NTSC : 1/60 ~ 1/100,000 sec	NTSC : 1/60 ~ 1/100,000 sec
	PAL : 1/50 ~ 1/100,000 sec	PAL : 1/50 ~ 1/100,000 sec
MTTF	80,000 hours	80,000 hours
Power Source	DC12V (Voltage Tolerance : 9V – 18V)	DC12V (Voltage Tolerance : 9V – 18V)
Operation current	110mA w/Regulated 12V DC	90mA w/Regulated 12V DC
Lens Standard -Exchangeable Lens	3.6mm (92°)	3.6mm (92°)
	2.9mm(120°),4.3mm(78°),6mm(54°),8mm(39°)	2.9mm(120°),4.3mm(78°),6mm(54°),8mm(39°)
Operating Temperature	14 °F ~ 135° F ( -10° C ~ +60° C)	14 °F ~ 135° F ( -10° C ~ +60° C)
Humidity	Within 90% RH	Within 90% RH
Output Termination	2 Feet Shield Cable with	2 Feet Shield Cable with
	RCA-Fe for Video, DC Jack for Power	RCA-Fe for Video, DC Jack for Power
	2 Feet Shield Cable with	2 Feet Shield Cable with
	BNC-Fe for Video, DC Jack for Power (STD)	BNC-Fe for Video, DC Jack for Power (STD)
Measurement (mm)	75(Dia) x 61(H)	75(Dia) x 61(H)
Weight(Approx. g)	Approx. 320g	Approx. 320g



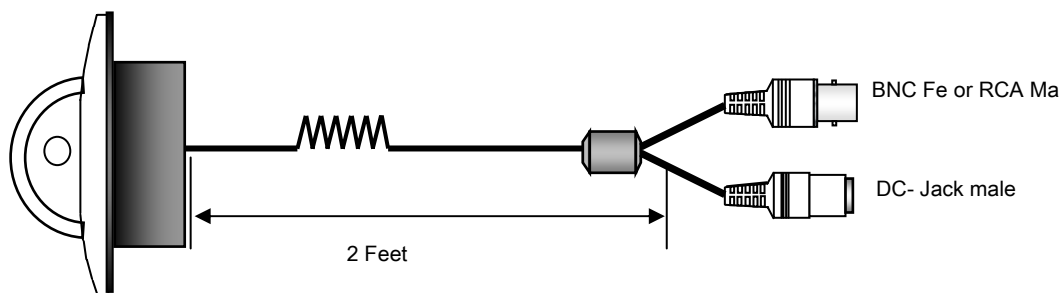
# Dome CAMERA

## Dimension(mm)



## Connection & Cable

BNC-Fe/RCA-Ma, 2Feet(60cm) DIY Cable for Video / DC-Ma for DC Power  
Option 1 : Internal/External Audio with C-Microphone " - 50dB / mV "  
Option 2 : Ceiling Mounting Bracket / Wall mounting Bracket  
Option 3 : Extension Cable ( 60Feet (18m), 90Feet (30m) )



## Dome CAMERA

### 1/3" SHARP MEDIUM ALUMINUM VANDALPROOF DOME CAMERA



#### ELECTRONIC FEATURES

- 1/3" SHARP high Sensitive 380TVL/480TVL & STD/High Resolution image Sensor Built-in
- Remarkable color reproduction & high clear coloration
- Outstanding high Sensitivity picture quality under extreme low illumination
- All direction free adjustable Ball type camera built-in for easy installment.
- 70mm dia. Crystal clear polycarbonate dome cover for Vandal-Resistance
- Accidental Surge and Shock Protecting Circuit Built-in
- Reverse Polarity Power Protection and Wide high-electric tolerance
- Extremely Low Power Consumption & Wide working Dual power tolerance

#### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with Free-moving Ball Bracket
- Anodized Aluminum Housing & Various Exchangeable Polycarbonate Cover
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy First-Aid Mechanism-All of parts exchangeable easily by User
- Circular diffused reflection free mechanism (Patent)

\*Internal/External Audio (5mm dia. 45dB Max.) Available (Option)

\*IR Sensitive Lens & Filter Available (Option)



# Dome CAMERA

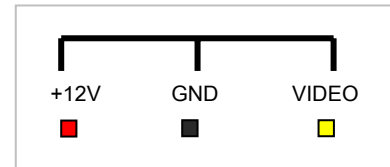
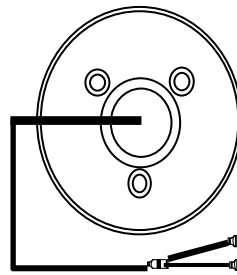
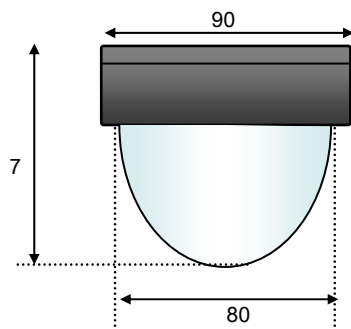
## SPECIFICATION

MODEL		ECR-3380ST	ECR-3480ST
Image Sensor Format		1/3 " SHARP High Sensitive & New 6032 Chipset Version	
Effect Pixels		NTSC(525TVL): 512(H)x492(V)	NTSC(525TVL): 768(H)x494(V)
		PAL(625TVL): 500(H)x582(V)	PAL(625TVL): 752(H)x582(V)
Horizontal Resolution		380 TV Lines (NTSC:270K Pixel,PAL:320KPixel)	480 TV Lines (NTSC:410K Pixel,PAL:470KPixel)
Synchronizing system		Internal (Interlaced for DVR Recording)	
Scanning system		NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced	
Video output		1.0Vp-p Composite. 75 Ohms	
S/N Ratio		More than 48dB(AGC Off)	
Min. Illumination		0.3Lux at F2.0	0.5Lux at F2.0
BLC		Automatic (ON/OFF)	
Shutter speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec	
Gamma correction		$\gamma = 0.45$	
White Balance		2,100°K – 8,500°K Auto	
Gain Control		4dB – 35dB Auto (Max/Off)	
Smear effect		0.005%	
MTTF		80,000 hours	
Power Source		DC12V Regulated (Strong Voltage Tolerance : 8V ~ 19V)	
Operation current		DC12V -80mA, w/Regulated Power input	DC12V -80mA, w/Regulated Power input
Lens	Standard	3.6mm Lens/F2.0	
	Option	Fixed : 2.5mm, 2.9mm, 4.3mm, 6.0mm, 8.0mm, 12mm, 16mm	
Operating Temperature		14 °F ~ 122° F ( -10° C ~ +50° C)	
Humidity		Within 90% RH (IP Rating : IP=66)	
Output Termination		2 Feet DIY cable with BNC-Fe for Video, Terminal block for Power (STD)	
Measurement (mm)		75(Dia) x 61(H)	75(Dia) x 61(H)
Weight(Approx. g)		380g	



# Dome CAMERA

## Dimension(mm)



BNC Fe or RCA Female  
DC Jack Female

## Body Color

- Black
- White
- Raw Silver





# Dome CAMERA

## 1/3" SHARP MEDIUM ALUMINUM VANDALPROOF DOME CAMERA



### ELECTRONIC FEATURES

- 1/3" SHARP high Sensitive 380TVL/480TVL & STD/High Resolution image Sensor Built-in
- Remarkable color reproduction & high clear coloration
- Outstanding high Sensitivity picture quality under extreme low illumination
- All direction free adjustable Ball type camera built-in for easy installment.
- 80mm dia. Crystal clear polycarbonate dome cover for Vandal-Resistance
- Accidental Surge and Shock Protecting Circuit Built-in
- Reverse Polarity Power Protection and Wide high-electric tolerance
- Perfect High & low illuminance Picture quality without any random noise
- Extremely Low Power Consumption & Wide working Dual power tolerance

### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with Free-moving Ball Bracket
- Robust Aluminum Housing & Topped Polycarbonate Clear Cover Built-in
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy First-Aid Mechanism-All of parts exchangeable easily by User
- Circular diffused reflection free mechanism (Patent)

\*Internal/External Audio (5mm dia. 45dB Max.) Available (Option)

\*IR Sensitive Lens & Filter Available (Option)



# Dome CAMERA

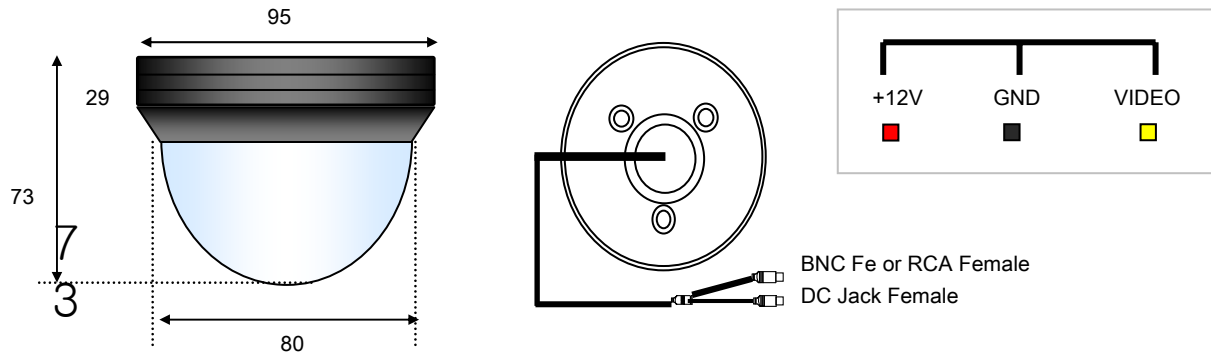
## SPECIFICATION

MODEL		ECR-3395ST	ECR-3495ST
Image Sensor Format		1/3 " SHARP High Sensitive & New 6032 Chipset Version	
Effect Pixels		NTSC(525TVL): 512(H)x492(V)	NTSC(525TVL): 768(H)x494(V)
		PAL(625TVL): 500(H)x582(V)	PAL(625TVL): 752(H)x582(V)
Horizontal Resolution		380 TV Lines (NTSC:270K Pixel,PAL:320KPixel)	480 TV Lines (NTSC:410K Pixel,PAL:470KPixel)
Synchronizing system		Internal (Interlaced for DVR Recording)	
Scanning system		NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced	
Video output		1.0Vp-p Composite. 75 Ohms	
S/N Ratio		More than 48dB(AGC Off)	
Min. Illumination		0.3Lux at F2.0	0.5Lux at F2.0
BLC		Automatic (ON/OFF)	
Shutter speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec	
Gamma correction		$\gamma = 0.45$	
White Balance		2,100°K – 8,500°K Auto	
Gain Control		4dB – 30dB Auto (Max/Off)	
Smear effect		0.005%	
MTTF		80,000 hours	
Power Source		DC12V Regulated (Strong Voltage Tolerance : 8V ~ 19V)	
Operation current		DC12V -80mA, w/Regulated Power input	DC12V -80mA, w/Regulated Power input
Lens	Standard	3.6mm Lens/F2.0	
	Option	Fixed : 2.5mm, 2.9mm, 4.3mm, 6.0mm, 8.0mm, 12mm, 16mm	
Operating Temperature		14 °F ~ 122° F ( -10° C ~ +50° C)	
Humidity		Within 90% RH (IP Rating : IP=66)	
Output Termination		2 Feet DIY cable with BNC-Fe for Video, Terminal block for Power (STD)	
Weight (Approx. g)		380g	



# Dome CAMERA

## Dimension(mm)



## Body Color

- Black
- White
- Raw Silver



# Dome CAMERA

## 1/3" SHARP ALUMINUM VANDALPROOF 3AXIS DOME CAMERA



### ELECTRONIC FEATURES

- 1/3" SHARP high Sensitive 380TVL/480TVL & STD/High Resolution image Sensor
- Digitalized Remarkable color reproduction & high clear coloration like Human eye
- Outstanding high Sensitivity picture quality under extremely Low illumination
- External RCA Fe Extra Connector Built-in for correct installment & preview (Patent)
- External Control DIP S/W Built-in on outer panel for correct picture control.  
- ALC/BLC/AGC/FL (All Model are equipped same function)
- Accidental Surge and Shock Protecting Built-in
- Reverse Polarity Power Protection and extremely high-electric tolerance
- Extremely Low Power Consumption & Wide working power tolerance (DC8V-19V)

### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with robust 3Axis Inner Bracket built-in
- Robust Aluminum Housing & Topped Polycarbonate Clear Cover Built-in
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy install mechanism & Easy exchange various lens mountable
- Circular diffused reflection free mechanism

\*Internal/External Audio (5mm dia. 45dB Max.) Available (Option)

\*IR Sensitive Lens & Filter Available (Option)



# Bullet CAMERA

## SPECIFICATION

MODEL		ECR-3300V (ECR-3300VD)	ECR-3400V (ECR-3400VD)
Image Sensor Format		1/3 " SHARP High Sensitive & New 6032 Chipset Version	
Effect Pixels		NTSC(525TVL): 512(H)x492(V)	NTSC(525TVL): 768(H)x494(V)
		PAL(625TVL): 500(H)x582(V)	PAL(625TVL): 752(H)x582(V)
Horizontal Resolution		380 TV Lines (NTSC:270K Pixel,PAL:320KPixel)	480 TV Lines (NTSC:410K Pixel,PAL:470KPixel)
Synchronizing system		Internal (Interlaced for DVR Recording)	
Scanning system		NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced	
Video output		1.0Vp-p Composite. 75 Ohms	
S/N Ratio		More than 48dB(AGC Off)	
Min. Illumination		0.1Lux at F1.6	0.1Lux at F1.6
BLC		Automatic (ON/OFF)	
Shutter speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec	
Gamma correction		$\gamma = 0.45$	
White Balance		2,100°K – 8,500°K Auto	
Gain Control		4dB – 30dB Auto (Max/Off)	
Smear effect		0.005%	
MTTF		80,000 hours	
Power Source		DC12V Regulated (Strong Voltage : 8V ~ 19V)	
Operation current		DC12V -80mA, w/Regulated Power input	DC12V -80mA, w/Regulated Power input
Lens	Standard	4-9mm Manual Iris Lens/F1.6	
	Option	Fixed : 2.5mm, 2.9mm, 4.3mm, 6.0mm, 8.0mm, 12mm, 16mm	
Operating Temperature		14 °F ~ 122° F ( -10° C ~ +50° C)	
Humidity		Within 90% RH (IP Rating : IP=66)	
Output Termination		2 Feet DIY cable with BNC-Fe for Video, Terminal block for Power (STD)	
Weight(Approx. g)		750g	



# Dome CAMERA

## 1/3" SHARP ALUMINUM VANDALPROOF 3AXIS DOME CAMERA



### ELECTRONIC FEATURES

- High-class Visible 850nm IR LEDx28ea and Anti-IR LED Light Cut Flim Coated CDS Sensor Built-in
- 1/3" SHARP high Sensitive 380TVL/480TVL & STD/High Resolution image Sensor
- Digitalized Remarkable color reproduction & high clear coloration like Human eye
- Outstanding high Sensitivity picture quality under extremely Low illumination
- External RCA Fe Extra Connector Built-in for easy install & preview (Patent)
- External Control DIP S/W Built-in on outer panel for correct picture control.  
- ALC\_ESC/BLC On-Off/AGC On-Off/FL On-Off (Dual Power Model : INT./Linelock)
- Natural Color at Day Time & vivid b/W at Night time controlled by DSP
- Accurate IR LED ON/OFF controlled with long-life
- Stable Electric current supply for IR LED Protection
- IR LED Temperature Feed back Circuit – Advanced IR LED Protection.
- Accidental Surge and Shock Protecting Built-in
- Reverse Polarity Power Protection and extremley high-electric tolerance
- Extremely Low Power Consumption & Wide working power tolerance (DC8V-19V)

### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with robust 3Axis Inner Bracket built-in
- Robust Aluminum Housing & Topped Polycarbonate Clear Cover Built-in
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy First-Aid mechanism - All of parts exchangeable easily by user
- Circular diffused reflection free mechanism (patent)



# Bullet CAMERA

## SPECIFICATION

MODEL		ECR-3328LT	ECR-3335LVT
Image Sensor Format		1/3 " SHARP High Sensitive & New 6032 Chipset Version	
Effect Pixels		NTSC(525TVL): 512(H)x492(V)	NTSC(525TVL): 768(H)x494(V)
		PAL(625TVL): 500(H)x582(V)	PAL(625TVL): 752(H)x582(V)
Horizontal Resolution		380 TV Lines (NTSC:270K Pixel,PAL:320KPixel)	480 TV Lines (NTSC:410K Pixel,PAL:470KPixel)
Synchronizing system		Internal (Interlaced for DVR Recording)	
Scanning system		NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced	
Video output		1.0Vp-p Composite. 75 Ohms	
S/N Ratio		More than 48dB(AGC Off)	
Min. Illumination		0.1Lux at F1.6	0.1Lux at F1.6
IR LED Visibility Range		Visible IR LED 850nm, 60degreex28ea(35ea), 30m(Approximately : 90Feet)	
IR LED Control		MICOM IC Circuit Control – TMIC <sup>™</sup>	
IR LED On/Off		CDS Sensor controlled by micom IC, 3-4 Lux IR LED On/Off	
BLC		Automatic (ON/OFF)	
Shutter speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec	
Gamma correction		$\gamma = 0.45$	
White Balance		2,100°K – 8,500°K Auto	
Gain Control		4dB – 30dB Auto (Max/Off)	
Smear effect		0.005%	
MTTF		80,000 hours	
Power Source		DC12V Regulated (Strong Voltage : 8V ~ 19V)	
Operation current		DC12V -250mA, w/Regulated Power input	DC12V -300mA, w/Regulated Power input
Lens	Standard	3.6mm IR Lens/F1.6	4-9mm Manual Iris Lens/F1.6
	Option	Fixed : 2.9mm, 4.3mm, 6.0mm, 8.0mm, 12mm, 16mm/Vrifocal: 2.6mm Auto DC/Manual Iris Lens	
Operating Temperature		14 °F ~ 122° F ( -10° C ~ +50° C)	
Humidity		Within 90% RH (IP Rating : IP=66)	
Output Termination		2 Feet DIY cable with BNC-Fe for Video, Terminal block for Power (STD)	
Weight (Approx. g)		720g / 780g	





# Dome CAMERA

## 1/3" SONY MINI ALUMINUM VANDALPROOF DOME CAMERA



### ELECTRONIC FEATURES

- 1/3" SONY SUPER HAD 420TVL/480TVL & STD/High Resolution image Sensor Built-in
- Remarkable color reproduction & high clear coloration
- Outstanding high Sensitivity picture quality under extreme low illumination
- All direction free adjustable Ball type camera built-in for easy installment.
- 70mm dia. Crystal clear polycarbonate dome cover for Vandal-Resistance
- Accidental Surge and Shock Protecting Circuit Built-in
- Reverse Polarity Power Protection and Wide high-electric tolerance
- Extremely Low Power Consumption & Wide working Dual power tolerance

### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with Free-moving Ball Bracket
- Anodized Aluminum Housing & Various Exchangeable Polycarbonate Cover
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy First-Aid Mechanism-All of parts exchangeable easily by User
- European Stylish design & Scratch-Proof coating

\*Internal/External Audio with C-Microphone “-50dB / mV “ (Option)

\*Wall Mounting Bracket & Ceiling Mounting Bracket (Option)

\*Various Polycarbonate Colored-Circular Dome Cover exchangeable (Option)



# Bullet CAMERA

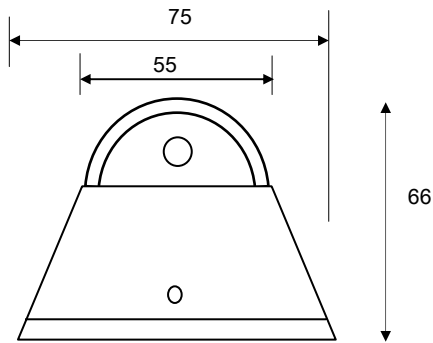
## SPECIFICATION

MODEL	ECR-2070S	ECR-5070S
Image Sensor	1/3 " Super HAD Color CCD, SONY	1/3 " Super HAD Color CCD, SONY
Effect Pixels	NTSC: 768(H)x494(V)	NTSC: 512(H)x492(V)
	PAL: 752(H)x582(V)	PAL: 500(H)x582(V)
Horizontal Resolution	480 TV Lines	420 TV Lines
Synchronizing system	Internal	internal
Scanning system	NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced	
Video output	1.0Vp-p Composite. 75 Ohms	1.0Vp-p Composite. 75 Ohms
S/N Ratio	More than 48dB(AGC Off)	More than 48dB(AGC Off)
Min. Illumination	0.3Lux at F2.0	0.1Lux at F2.0
BLC	Automatic Control	Automatic
White Balance	2,500°K – 9,600°K - Auto Tracing	2,500°K – 9,600°K - Auto Tracing
Gain Control	4dB – 35dB Auto	4dB – 35dB Auto
Gamma correction	$r = 0.45$	$r = 0.45$
Smear effect	0.005%	0.005%
Shutter speed	NTSC : 1/60 ~ 1/100,000 sec	NTSC : 1/60 ~ 1/100,000 sec
	PAL : 1/50 ~ 1/100,000 sec	PAL : 1/50 ~ 1/100,000 sec
MTTF	80,000 hours	80,000 hours
Power Source	DC12V (9- 15V)	DC12V (9-15V)
Operation current	110mA w/Regulated 12V DC	90mA w/Regulated 12V DC
Lens Standard -Exchangeable Lens	3.6mm (92°)	3.6mm (92°)
	2.9mm(120°),4.3mm(78°),6mm(54°),8mm(39°)	2.9mm(120°),4.3mm(78°),6mm(54°),8mm(39°)
Operating Temperature	14 °F ~ 135° F ( -10° C ~ +60° C)	14 °F ~ 135° F ( -10° C ~ +60° C)
Humidity	Within 90% RH	Within 90% RH
Output Termination	2 Feet Shield Cable with	2 Feet Shield Cable with
	RCA-Fe for Video, DC Jack for Power	RCA-Fe for Video, DC Jack for Power
	2 Feet Shield Cable with	2 Feet Shield Cable with
	BNC-Fe for Video, DC Jack for Power (STD)	BNC-Fe for Video, DC Jack for Power (STD)
Measurement (mm)	75(Dia) x 61(H)	75(Dia) x 61(H)
Weight(Approx. g)	Approx. 320g	Approx. 320g



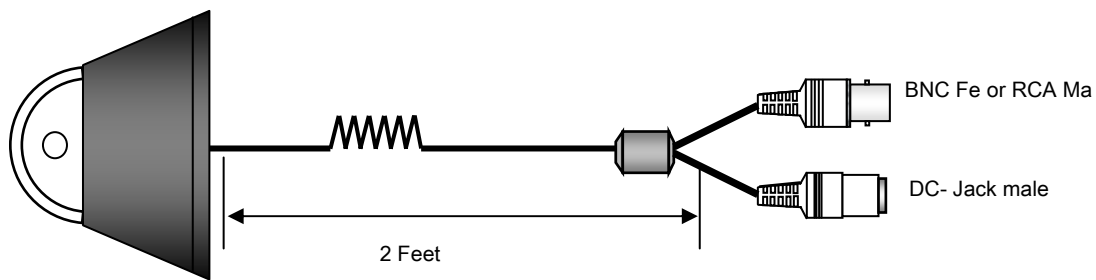
# Dome CAMERA

## Dimension(mm)



## Connection & Cable

BNC-Fe/RCA-Ma, 2Feet(60cm) DIY Cable for Video / DC-Ma for DC Power  
Option 1 : Internal/External Audio with C-Microphone " - 50dB / mV "  
Option 2 : Ceiling Mounting Bracket / Wall mounting Bracket  
Option 3 : Extension Cable ( 60Feet (18m), 90Feet (30m) )



# Dome CAMERA

## 1/3" SHARP MINI ALUMINUM VANDALPROOF DOME CAMERA



### ELECTRONIC FEATURES

- 1/3" SHARP High Sensitive 380TVL/480TVL & STD/High Resolution image Sensor Built-in
- Remarkable color reproduction & high clear coloration
- Outstanding high Sensitivity picture quality under extreme low illumination
- All direction free adjustable Ball type camera built-in for easy installment.
- 70mm dia. Crystal clear polycarbonate dome cover for Vandal-Resistance
- Accidental Surge and Shock Protecting Circuit Built-in
- Reverse Polarity Power Protection and Wide high-electric tolerance
- Extremely Low Power Consumption & Wide working Dual power tolerance

### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with Free-moving Ball Bracket
- Anodized Aluminum Housing & Various Exchangeable Polycarbonate Cover
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy First-Aid Mechanism-All of parts exchangeable easily by User
- European Stylish design & Scratch-Proof coating

\*Internal/External Audio with C-Microphone “-50dB / mV “ (Option)

\*Wall Mounting Bracket & Ceiling Mounting Bracket (Option)

\*Various Polycarbonate Colored-Circular Dome Cover exchangeable (Option)



# Bullet CAMERA

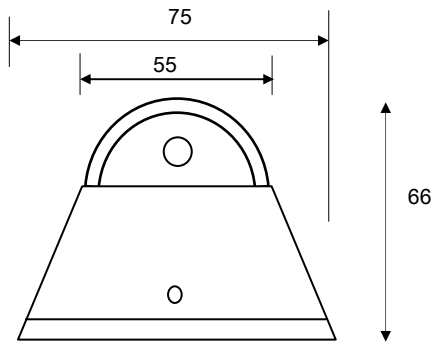
## SPECIFICATION

MODEL	ECR-3270S	ECR-3370S	ECR-3470S
Image Sensor	1/4 " SHARP STD Resolution	1/3 " SHARP STD Resolution	1/3 " SHARP High Resolution
Effect Pixels	NTSC:512(H)x492(V)	NTSC:512(H)x492(V)	NTSC:768(H)x494(V)
	PAL:500(H)x582(V)	PAL:500(H)x582(V)	PAL:752(H)x582(V)
Horizontal Resolution	380 TV Lines	380 TV Lines	480 TV Lines
Synchronizing system	Internal		
Scanning system	NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced		
Video output	1.0Vp-p Composite. 75 Ohms		
S/N Ratio	More than 46dB(AGC Off)	More than 48dB(AGC Off)	More than 48dB(AGC Off)
Min. Illumination	0.5Lux at F2.0	0.5Lux at F2.0	0.3Lux at F2.0
BLC	Automatic Control		
White Balance	2,500°K - 9100°K - Auto Tracing		
Gain Control	4dB – 35dB – Automatic Control		
Gamma correction	$r = 0.45$		
Smear effect	0.005%		
Shutter speed	NTSC : 1/60 ~ 1/100,000 sec		
	PAL : 1/50 ~ 1/100,000 sec		
MTTF	More than 60,000 hours		
Power Source	DC12V (9 - 20V)		
Operation current	90mA/Regulated 12V DC Preferred		
Lens Standard	3.6mm (92°)		
Option	2.9mm(120°), 4.3mm(78°), 6mm(54°), 8mm(39°)		
Operating Temperature	14 °F ~ 135° F ( -10° C ~ +60° C)		
Humidity	Within 90% RH		
Output Termination	2 Feet Shield Cable with		
	RCA-Fe for Video, DC Jack for Power		
	2 Feet Shield Cable with		
	BNC-Fe for Video, DC Jack for Power (STD)		
Measurement (mm)	88(Dia) x 82(H)		
Weight (Approx. g)			



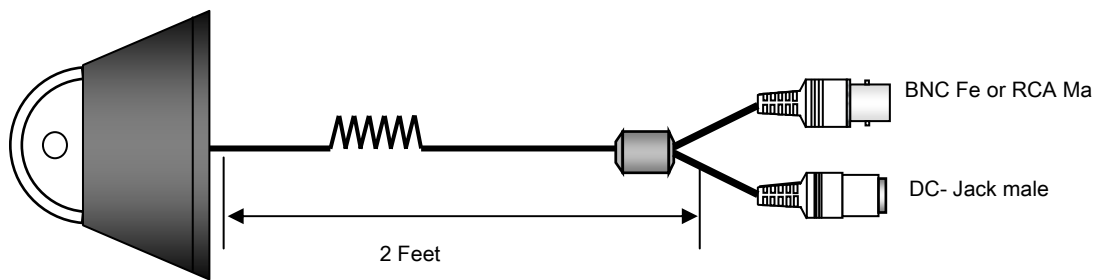
# Dome CAMERA

## Dimension(mm)



## Connection & Cable

BNC-Fe/RCA-Ma, 2Feet(60cm) DIY Cable for Video / DC-Ma for DC Power  
Option 1 : Internal/External Audio with C-Microphone " - 50dB / mV "  
Option 2 : Ceiling Mounting Bracket / Wall mounting Bracket  
Option 3 : Extension Cable ( 60Feet (18m), 90Feet (30m) )



# Dome CAMERA

## 1/3" SONY ALUMINUM VANDALPROOF 3AXIS DOME CAMERA



### ELECTRONIC FEATURES

- 1/3" SONY high Sensitive 520TVL High Resolution image Sensor
- Digitalized Remarkable color reproduction & high clear coloration like Human eye
- Outstanding high Sensitivity picture quality under extremely Low illumination
- External RCA Fe Extra Connector Built-in for correct installment & preview (Patent)
- External Control DIP S/W Built-in on outer panel for correct picture control.  
- ALC/BLC/AGC/FL (All Model are equipped same function)
- Accidental Surge and Shock Protecting Built-in
- Reverse Polarity Power Protection and extremely high-electric tolerance
- Extremely Low Power Consumption & Wide working power tolerance (DC9V-16V)

### MECHANIC FEATURES

- Vandalproof, Weatherproof, Tamperproof with robust 3Axis Inner Bracket built-in
- Robust Aluminum Housing & Topped Polycarbonate Clear Cover Built-in
- Weatherproof (IP=66) for installing universal applications at Indoor/Outdoor
- Easy install mechanism & Easy exchange various lens mountable
- Circular diffused reflection free mechanism

\*Internal/External Audio (5mm dia. 48dB Max.) Available (Option)

\*IR Sensitive Lens & Filter Available (Option)



# Bullet CAMERA

## SPECIFICATION

MODEL		ECR – 2200ST	
Main Chip Set		Sony DSP (SS - HQ1)	
Image Sensor		Sony – 1/3Inch Super HAD Color CCD	Sony – 1/3Inch Super HAD Color CCD
Effective pixels		768 (Horizontal) x 494 (Vertical)	752 (Horizontal) x 582 (Vertical)
Video System		NTSC TV System	PAL TV System
Scanning system		NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced	
Scanning Frequency		15.734 [KHZ ]/H 59.94 [HZ]/V	15.625 [KHZ ]/H 50 [HZ]/V
Shutter speed		1/60 ~ 1/100,000 sec	1/60 ~ 1/100,000 sec
Sync system		Internal Sync	
H - Resolution		520 TV Lines	
S/N Ratio		48 [dB] / AGC Off	
Minimum Illumination		0.1 Lux ( F : 2.0 / 30 IRE )	
Gamma		0.45 Approx	
CCD Level Control		ELC / ALC	
AGC Gain Control		Automatic ( 0 ~ 18dB)	
White Balance		Automatic White Balance	
C. Video Output		VBS 1.0 Vp-p / 75 ohm	Video : 0.7 Vp-p / Sync : 0.3Vp-p / Burst : 0.3Vp-p
Input Voltage		DC 9V ~ 16V	
Current		Max : 180mA +/- 10mA (at 12VDC)	
Operating Temp		- 20 ° C ~ +50° C	
Dimentions		32mm x 32mm ( Two – Board )	
Option		DC Auto Iris Lens	
		Audio	
Lens	Standard	3.6mm board Lens	
	Option	4-9mm manual Iris Lens / F 1.6	
Dip Switch		BLC / Flicker on - off	



# Powerful CCTV System Provider

ELLIM continues to supply digitalized various surveillance system and high-performance security units which are equipped with the most sophisticated technologies - most stable surveillance systems for most complicated security circumstances - for security of your life & property



BULLET CAMERA

ELIM

## Bullet CAMERA

Weatherproof (IP=67) 21mm dia.  
1/3" SONY Bullet CAMERA



### KEY FEATURES

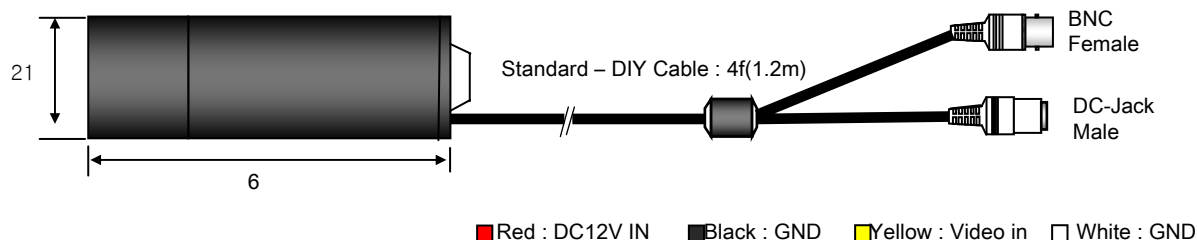
- Excellent picture quality at low sensitivity.
- Supreme True Color reproduction & clearest picture quality
- Professional features & functions
- Crystal clear front cover & perfect moisture-resistant structure
- Easy various lens changing & mounting as different viewable distance
- Beautiful design & compact hand-grip size for various user's application
- Easy & robust installation.
- Extremely Low Power Consumption & wide working voltage tolerance
- Accidental Surge from air and Shock Protection circuits Built-in

\*Audio Available (option), Sun Shield / Metal Hood (Option)

\*IR Sensitivity Lens available (Option)

### Dimension(mm) & Wiring

World Smallest 1/3" SONY 480TVL EX-VIEW CAMERA



307-8 Sangdaewon-dong, Jungwon-Gu, Seongnam City, Kyeonggi-Do, Korea  
Tel. 82-31-730-8000 Fax. 82-31-730-8201 E-mail : ellima@ellim21.co.kr

# Bullet CAMERA

## SPECIFICATION

MODEL(21mm dia.)		ECB-2021WT	ECB-7021WST
Image Sensor		1/3" Super Had CCD SONY STD Resolution	1/3" EX-VIEW CCD SONY High Resolution
Effective Pixels		512(H) x 492(V) :NTSC, 500(H) x 582(V):PAL	768(H) x 492(V) :NTSC, 752(H) x 582(V):PAL
H. Resolution		480 TV Lines	480TV Lines
Synchronizing system		Internal	
Scanning system		NTSC 525 Lines PAL 625 Lines 2:1 Interlaced	
Video output		1.0Vp-p Composite. 75 Ohms	
S/N ratio		More then 50 dB (AGC Off)	
Min. Illumination		0.1Lux	0.01Lux at
BLC (Back Light compensation)		Automatic	
Shutter Speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec	
Gamma correction		$\gamma = 0.45$ , Automatic	
White Balance		2500°K ~ 9500°K Auto	
Gain control		4dB ~ 32dB Auto	
Smear Effect		0.005%	
MTTF		80,000hours	
Power source		DC 12V (Voltage Tolerance : 8V ~ 20V DC)	
Operating current		90mA w/regulated power input	
Lens	Standard	STD : f=3.6mm (92°)	
	Option	2.9mm, 4.3mm, 6.0mm, 8.0mm, 12mm, 16mm Easy Exchangeable	
Output terminal		4 Feet DIY cable with BNC-Female for Video, DC Jack-Male for Power (STD)	
Operating Temperature		14°F ~ 144°F ( -10° C ~ +60° C)	
Humidity		Within 95% RH (IP Rating = 67, Weatherproof)	
Measurement (mm)		68mm x 21mm	
Weight (Approx.g)		91g	
Optional Features	IR Sensitivity Lens	Yes	Yes
	Audio	Yes	Yes
	Hood (Sunshield)	Yes (Groove Type / Flat Type)	Yes (Groove Type / Flat Type)



## Bullet CAMERA

Weatherproof (IP=67) 21mm dia.  
1/3" SHARP Bullet CAMERA



### KEY FEATURES

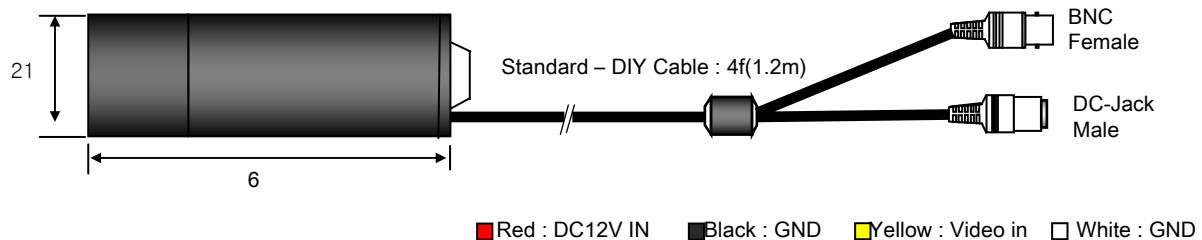
- Excellent picture quality at low sensitivity.
- Supreme True Color reproduction & clearest picture quality
- Professional features & Superior functions
- Crystal clear front cover & perfect moisture-resistant structure
- Easy various lens changing & mounting as different viewable distance
- Beautiful design & compact hand-grip size for various user's application
- Easy & robust installation.
- Extremely Low Power Consumption & wide working voltage tolerance
- Accidental Surge from air and Shock Protector circuits Built-in
- Reverse Polarity protection built in

\*Audio Available (option)

\*IR Sensitivity Lens available (Option)

### Dimension(mm) & Wiring

World Smallest 1/3" SONY 480TVL EX-VIEW CAMERA



307-8 Sangdaewon-dong, Jungwon-Gu, Seongnam City, Kyeonggi-Do, Korea  
Tel. 82-31-730-8000 Fax. 82-31-730-8201 E-mail : ellima@ellim21.co.kr

# Bullet CAMERA

## SPECIFICATION

MODEL(21mm dia.)		ECB-3321WT	ECB-3421WST
Image Sensor (1/3" Color CCD)		1/3"SHARP high Sensitive+New6032Chipset NTSC : 270K Pixel, PAL: 320K Pixel	1/3"SHARP high Sensitive+New6032Chipset NTSC : 410K Pixel, PAL: 470K Pixel
Effective Pixels		512(H) x 492(V) :NTSC, 500(H) x 582(V):PAL	768(H) x 494(V) :NTSC, 752(H) x 582(V):PAL
H. Resolution		380 TV Lines	480TV Lines
Synchronizing system		Internal	
Scanning system		NTSC 525 Lines PAL 625 Lines 2:1 Interlaced (Non- Interlaced Available)	
Video output		1.0Vp-p Composite. 75 Ohms	
S/N ratio		More then 50 dB (AGC Off)	
Min. Illumination		0.3Lux at F2.0	0.01Lux at F2.0
BLC (Back Light compensation)		Automatic	
Shutter Speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec	
Gamma correction		$\gamma = 0.45$ , Automatic	
White Balance		2500°K ~ 9200°K Auto	
Gain control		4dB ~ 32dB Auto	
Smear Effect		0.005%	
MTTF		80,000hours	
Power source		DC 12V (Voltage Tolerance : 8V ~ 20V DC)	
Operating current		70mA w / regulated power input	80mA w / regulated power input
Lens	Standard	STD : f=3.6mm (92°)	
	Option	2.5mm, 2.9mm, 4.3mm, 6.0mm, 8.0mm, 12mm, 16mm	
Output terminal		4 Feet DIY cable with BNC-Female for Video, DC Jack-Male for Power (STD)	
Operating Temperature		14°F ~ 144°F ( -10° C ~ +60° C)	
Humidity		Within 95% RH (IP Rating = 67, Weatherproof)	
Measurement (mm)		68mm x 21mm	
Weight (Approx.g)		88g	
Optional Features	IR Sensitivity Lens	Yes	Yes
	Audio	Yes	Yes
	Hood (Sunshield)	Yes (Groove Type / Flat Type)	Yes (Groove Type / Flat Type)



# Bullet CAMERA

Weatherproof 28mm dia.  
SHARP Varifocal Bullet CAMERA

## KEY FEATURES

- Excellent picture quality at low light sensitivity.
- Supreme True Color reproduction & clearest picture quality
- Professional features & Superior functions (IP=66)
- Crystal clear front cover & perfect moisture-resistant structure
- Easy adjustable 4-9mm Varifocal Lens Built-in
- Beautiful design & compact size for various user's application
- Convenient Celling & robust Installation Bracket Included
- Extremely Low Power Consumption & Wide voltage tolerance
- Accidental Surge and Shock Protection circuits Built-in
- Reverse Polarity protection built in

\*Audio Available (option)

\*IR Sensitivity Lens available (Option)



Inside View

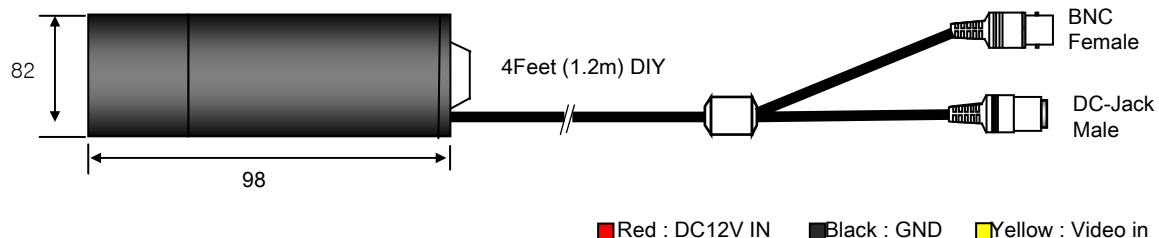


Optional Hood



## Dimension(mm) & Wiring

World Smallest Varifocal Bullet CAMERA(IP=66)



307-8 Sangdaewon-dong, Jungwon-Gu, Seongnam City, Kyeonggi-Do, Korea  
Tel. 82-31-730-8000 Fax. 82-31-730-8201 E-mail : ellima@ellim21.co.kr



# Bullet CAMERA

## SPECIFICATION

MODEL(21mm dia.)		ECB-3328WV	ECB-3428WV
Image Sensor (1/3" Color CCD)		1/3"SHARP high Sensitive+New6032Chipset NTSC : 270K Pixel, PAL: 320K Pixel	1/3"SHARP high Sensitive+New6032Chipset NTSC : 410K Pixel, PAL: 470K Pixel
Effective Pixels		512(H) x 492(V) :NTSC, 500(H) x 582(V):PAL	768(H) x 494(V) :NTSC, 752(H) x 582(V):PAL
H. Resolution		380 TV Lines	480TV Lines
Synchronizing system		Internal	
Scanning system		NTSC 525 Lines PAL 625 Lines 2:1 Interlaced (Non- Interlaced Available)	
Video output		1.0Vp-p Composite. 75 Ohms	
S/N ratio		More then 50 dB (AGC Off)	
Min. Illumination		0.1Lux at F1.6	0.3Lux at F1.6
BLC (Back Light compensation)		Automatic	
Shutter Speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec	
Gamma correction		$\gamma = 0.45$ , Automatic	
White Balance		2500°K ~ 9200°K Auto	
Gain control		4dB ~ 32dB Auto	
Smear Effect		0.005%	
MTTF		80,000hours	
Power source		DC 12V (Tolerance : 8V ~ 20V DC)	
Operating current		70mA w / regulated power input	80mA w / regulated power input
Lens	Standard	f=4-9mm Varifocal Lens (STD) -92.6° ~ 39.4° (D)	
	Option	2.6~6.0mm Varifocal Lens / 3.5-8mm Auto DC Iris Varifocal lens	
Output terminal		4 Feet DIY cable with BNC-Female for Video, DC Jack-Male for Power (STD)	
Operating Temperature		14°F ~ 142°F ( -10° C ~ +60° C)	
Humidity		Within 90% RH (IP Rating = 66, Weatherproof)	
Measurement (mm)		28mm(D) x 98mm(L) – World Smallest VF Bullet	
Weight (Approx.g)		102g	
Available Color for Housing		Black (STD), White, Silver	
Optional Features	Audio	Yes	Yes
	Hood (Sunshield)	Yes (Groove Type / Flat Type)	Yes (Groove Type / Flat Type)



## Bullet CAMERA

Weatherproof 28mm dia.  
SONY Varifocal Bullet CAMERA

### ● KEY FEATURES

- 1/3" SONY SUPER HAD 380TVL/480TVL High Resolution Camera
- Excellent picture quality at low light sensitivity.
- Supreme True Color reproduction & clearest picture quality
- Professional features & Superior functions (IP=66)
- Crystal clear front cover & perfect moisture-resistant structure
- Easy adjustable 4-9mm Varifocal Lens Built-in
- Beautiful design & compact size for various user's application
- Extremely Low Power Consumption & Wide voltage tolerance
- Accidental Surge and Shock Protection circuits Built-in
- Reverse Polarity protection built in

\*Audio Available (option)

\*IR Sensitivity Lens available (Option)



Inside View

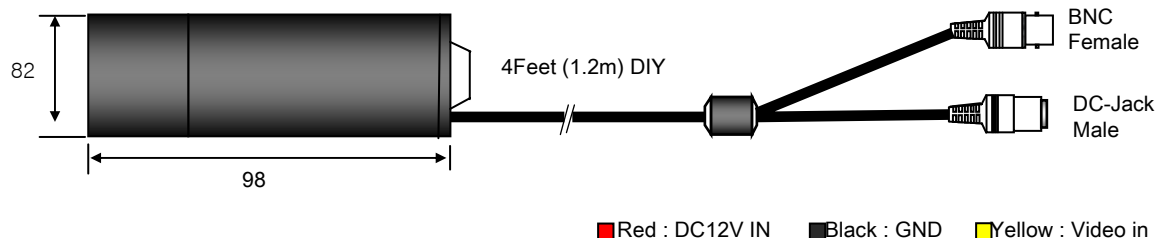


Optional Hood



### ● Dimension(mm) & Wiring

World Smallest Varifocal Bullet Camera (IP=66)





# Bullet CAMERA

## SPECIFICATION

MODEL(21mm dia.)		ECB-2028WV	ECB-5028WV
Image Sensor (1/3" Color CCD)		1/3" Super HAD CCD SONY STD Resolution	1/3" EX-VIEW CCD SONY High Resolution
Effective Pixels		768(H) x 494(V) :NTSC, 752(H) x 582(V):PAL	
H. Resolution		480TV Lines	
Synchronizing system		Internal	
Scanning system		NTSC 525 Lines PAL 625 Lines 2:1 Interlaced (Non- Interlaced Available)	
Video output		1.0Vp-p Composite. 75 Ohms	
S/N ratio		More then 50 dB (AGC Off)	
Min. Illumination		0.1Lux at F1.6	0.01Lux at F1.6
BLC (Back Light compensation)		Automatic	
Shutter Speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec	
Gamma correction		$\gamma = 0.45$ , Automatic	
White Balance		2500°K ~ 9200°K Auto	
Gain control		4dB ~ 32dB Auto	
Smear Effect		0.005%	
MTTF		80,000hours	
Power source		DC 12V (Tolerance : 8V ~ 20V DC)	
Operating current		100mA w / regulated power input	110mA w / regulated power input
Lens	Standard	f=4-9mm Varifocal Lens (STD) -92.6° ~ 39.4° (AOV)	
	Option	2.6~6.0mm Varifocal Lens	
Output terminal		4 Feet DIY cable with BNC-Female for Video, DC Jack-Male for Power (STD)	
Operating Temperature		14°F ~ 142°F ( -10° C ~ +60° C)	
Humidity		Within 90% RH (IP Rating = 66, Weatherproof)	
Measurement (mm)		28mm(D) x 98mm(L) – World Smallest VF Bullet	
Weight (Approx.g)		102g	
Available Color for Housing		Black (STD), White, Silver	
Optional Features	Audio	Yes	Yes
	Hood (Sunshield)	Yes (Groove Type / Flat Type)	Yes (Groove Type / Flat Type)



## Bullet CAMERA

Weatherproof(IP=67) 19mm dia.  
1/3" CCD Bullet CAMERA



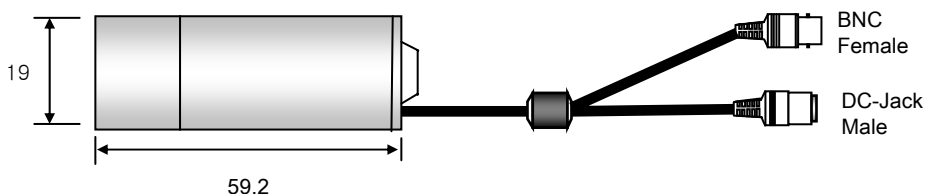
### KEY FEATURES

- Excellent picture quality at low light sensitivity.
- Supreme True Color reproduction & clearest picture quality
- Professional features & Superior functions (IP=66)
- Crystal clear front cover & perfect moisture-resistant structure
- Easy various lens changing & mounting as different viewable distance
- Beautiful design & compact hand grip size for various application
- Easy & robust Installation
- Extremely Low Power Consumption & Wide working voltage tolerance
- Reverse Polarity protection circuits built in

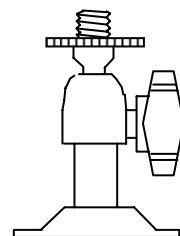
\*Audio Available (option)

\*IR Sensitivity Lens available (Option)

### Dimension(mm) & Wiring



### Swive



# Bullet CAMERA

## SPECIFICATION

MODEL(21mm dia.)		EBB-1019WST
Image Sensor (1/3" Color CCD)		1/3" Super Sensitive LG STD Resolution / SHARP
Effective Pixels		512(H) x 492(V) :NTSC, 500(H) x 582(V):PAL
H. Resolution		420TV Lines
Synchronizing system		Internal
Scanning system		NTSC 525 Lines PAL 625 Lines 2:1 Interlaced
Video output		1.0Vp-p Composite. 75 Ohms
S/N ratio		More than 50 dB (AGC Off)
Min. Illumination		0.01Lux at F2.0
BLC (Back Light compensation)		Automatic
Shutter Speed		NTSC : 1/60 ~ 1/100,000 sec PAL : 1/50 ~ 1/100,000 sec
Gain control		4dB ~ 32dB Auto
Smear Effect		0.005%
MTTF		80,000hours
Power source		DC 12V (Tolerance : 9V ~ 15V DC)
Operating current		70mA, regulated power input
Lens	Standard	f=3.6mm ( AOV: 92° )
	Option	2.5mm, 2.9mm, 4.3mm, 6.0mm, 8.0mm, 12mm
Output terminal		4Feet DIY cable with BNC-Female for Video, DC for Power
Operating Temperature		14°F ~ 124°F ( -10° C ~ +50° C)
Humidity		Within 95% RH
Measurement (mm)		58.2mm x 19mm
Weight (Approx.g)		78g
Optional Features	IR Sensitivity	Yes
	Audio	Yes



# Powerful CCTV System Provider

ELLIM continues to supply digitalized various surveillance system and high-performance security units which are equipped with the most sophisticated technologies - most stable surveillance systems for most complicated security circumstances - for security of your life & property



BOX CAMERA

# BOX CAMERA

## 1/3" SONY SUPER HAD COLOR CCD 520TVL High Resolution Module



### SPECIFICATION

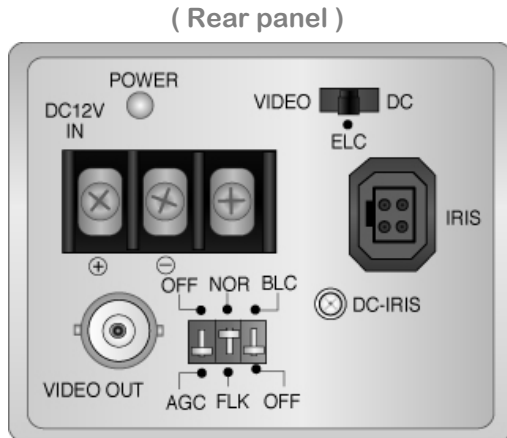
MODEL	ECH – 5060	
Signal System	NTSC	PAL
Total / Effective Pixcels	410K / 380K	470K / 440K
Pick-Up Device	1/3 Inch Interline color CCD (Super)	
Lens Mount	C / CS mount	
Iris	DC iris / Video Iris / Shutter Iris	
Signal process	Digital Signal Process	
Scanning System	2 :1 Interlace	
Sync. system	Internal	
Scanning Frequency	59.94 Hz (VD)	50 Hz (VD)
Resolution	480 Line (H)	470 Line (H)
S/N Ratio	More than 48 dB	
Standard Illuminance	2000 Lux (3200°K)	
Sensitivity (1/3 Output)	0.5 Lux (F 1.8)	
Video Output Signal	1 Vp-p Composite (75 ohm)	
Gain Control	Auto (AGC max gain ON / OFF)	
Exposure	Automatic control with Dc / Video Iris meter / Electronic Light Control	
Flickerless	ON / OFF	
White Balance	Auto	
Back Light	Compensation Auto / OFF	
Power Source	DC 10V ~ 14V	
Power Consumption	Less than 180mA	
Operating Temp	-10°C ~ 50°C (Humidity : 0%RH ~ 80%RH)	
Storage Temp	-20°C ~ 60°C (Humidity : 0%RH ~ 85%RH)	
Weight( w/o lens)	220g	
Dimensions (w/o lens)	60(H) x 50(V) x 68(D)	



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# BOX CAMERA

## ▶ Connection



## ▶ Assignment

- ① POWER ← Power 'On' LED (Green)
- ② DC12V IN 

DC 10V ~ 14V

Earth connection
- ③ VIDEO OUT ← Video out (75ohm drive)
- ④ VIDEO DC ← Video/ELC/DC : Video iris lens / Electronic Light Control mode/ DC Iris lens
- ⑤ IRIS 

1	DC Iris Damp +	→
2	DC Iris Damp - (DC 12V Out <sup>①</sup> )	→
3	DC Iris Drive - (GND <sup>①</sup> )	→
4	DC Iris Drive + (Video signal <sup>①</sup> )	→

DC Iris lens  
(\* ① video iris lens)
- ⑥ DC-IRIS ← Level : Sensitivity control for DC Iris lens



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MODULE CAMERA

# Module CAMERA

## 1/3" SONY SUPER HAD COLOR CCD 520TVL High Resolution Module



### SPECIFICATION

MODEL	ECM – 2232ST	
Main Chip Set	Sony DSP (SS - HQ1)	
Image Sensor	Sony – 1/3Inch Super HAD Color CCD	Sony – 1/3Inch Super HAD Color CCD
Effective pixels	768 (Horizontal) x 494 (Vertical)	752 (Horizontal) x 582 (Vertical)
Video System	NTSC TV System	PAL TV System
Scanning system	NTSC : 525 Lines PAL : 625 Lines, 2:1 Interlaced	
Scanning Frequency	15.734 [KHZ ]/H      59.94 [HZ]/V	15.625 [KHZ ]/H      50 [HZ]/V
Shutter speed	1/60 ~ 1/100,000 sec	1/60 ~ 1/100,000 sec
Sync system	Internal Sync	
H - Resolution	520 TV Lines	
S/N Ratio	48 [dB] / AGC Off	
Minimum Illumination	0.1 Lux ( F : 2.0 / 30 IRE )	
Gamma	0.45 Approx	
CCD Level Control	ELC / ALC	
AGC Gain Control	Automatic ( 0 ~ 18dB)	
White Balance	Automatic White Balance	
C. Video Output	VBS 1.0 Vp-p / 75 ohm	Video : 0.7 Vp-p / Sync : 0.3Vp-p / Burst : 0.3Vp-p
Input Voltage	DC 9V ~ 16V	
Current	Max : 180mA +/- 10mA (at 12VDC)	
Operating Temp	- 20 ° C ~ +50° C	
Dimentions	32mm x 32mm ( Two – Board )	
Option	DC Auto Iris Lens	
	Audio	
Dip Switch	BLC / Flicker on - off	





# Powerful CCTV System Provider

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SPEED Dome CAMERA

ELIM

## SPEED Dome CAMERA

Optical 27x Day & Night Aluminum  
Topped SPEED Dome Camera



### ELECTRONIC FEATURES

- 1/4" SONY SUPER HAD 480TVL High Resolution image Sensor Built-in
- World Best Weatherproof, Tamperproof with Speed pan & Tilt Mechanism built-in
  - Maximum rotating Angle of PAN/Speed : 0-360°/ 2 sec
  - Maximum increasing degree of TILT/Speed : 0-90°/ 0.3 sec
- Digitalized Remarkable Color reproduction & Outstanding low Illumination Sensitivity
- Powerful OSD (On Screen Display) S/W Support, Display position Selectable
- Micom (Digital micro Processor) IC Control System Built-in
  - Automatic 28 steps PAN/TILT Speed Control available
  - Accurate 128 point preset function available
  - Stable 8 kinds of tour & 2/4 different pattern function available
  - Maximum 255 ID Camera Connection Available
- Accidental Surge and Shock protector Built-in.
- Reverse Polarity power protection and extremely low Power Consumption
- Extremely Low power Consumption & Wide Working Dual power tolerance.
- Internal / line lock function available

### ELECTRONIC FEATURES

- Robust aluminum Housing & Topped Polycarbonate Clear Cover Built-in
- Weatherproof (IP=66) for installing universal applications at indoor / Outdoor
- Easy install mechanism & Easy exchange various lens mountable
- Circular diffused reflection free mechanism
  - \*Corner mounting Bracket Available (Option)
  - \*Ceiling mounting Bracket Available (Option)



# SPEED Dome CAMERA

## SPECIFICATION

SPECIFICATION	
Image Sensor	1/4" SONY SUPER HAD HIGH RESOLUTION CCD
Horizontal TV Lines	NTSC : 480 TVL (Day/Color) / 600TVL (Night /BW)
	PAL : 470 TVL (Day/Color) / 570TVL (Night /BW)
Min. Illumination	0.01 lux (Black and White) or 1 lux(color) – Electronics Sensitive-up Mode : 0.01Lux
Effective Pixels	NTSC : 410,000Pixels, NTSC(525TVL) : 768 x 494
	PAL : 470,000Pixels, PAL(625TVL) : 752 x 582
Video output	1.0Vp-p PAL/CCIR 75Ω/BNC
S/N Ratio	More than 50dB
Power Source	DC12V , 3A ( ±20% ) SMPS Preferred (linear power)
Power consumption	Max. 24W
Pan Speed	0.1° ~ 120° / sec
Tilt Speed	0.1° ~ 120° / sec
Scanning System	2 : 1 Interlace
Pan Scan Scope	360° run (Endless Pan)
The frequency of Pan for Scanning	NTSC : 15,734KHz, PAL : 15,625KHz
The frequency of Tilt for Scanning	NTSC : 59,94KHz, PAL : 50KHz
During Time for finding preset	Under 2 seconds
Preset speed	120°/sec
Aperture Compensation mode	Auto (Open/close) / Manual
Relay time for Sticking focus	Max. 1.65 sec
Scan precision	0.225 ± 0.03
Communication	Standard RS-485
Available Baud rate	2400、4800、9600bps available
Operating Temperature	-40°C ~ 60°C (Outdoor) / -20°C ~ 50°C (indoor)
IP Rating	IP66 Authorised



# SPEED Dome CAMERA



- 1/4" SONY Hi-Resolution EX-VIEW 480TVL
- Built-in 27x Option Zoom Auto Focus Lens
- Min. Illumination : 0.01Lux (Digital slow Shutter)
- Digital IR Zoom Lens with Day & night Function
- w/Dual IR CUT filter Automatic change
- Motion Detection, Auto focus, Auto Iris
- Six Alternative white balance control Mode
- cooling Fan & ceramic Heater (Option)
- RS232 / RS485 Multi protocol, 9600bps

SPECIFICATION	
Image Sensor	1/4" SONY High Resolution SUPER HAD (410k Pix.)
H. Resolution / Pixel	NTSC : 480 TVL , PAL : 470 TVL
	NTSC(525TVL) : 768 x 494, PAL(625TVL) : 752 x 582
Min. Illumination	0.1Lux(color), 0.01Lux(B/W)
Lens	Optical Zoom 27X, Digital Zoom 10X927-270X Max.)
	Focal Range : 3.25-88mm AF Zoom (F1.5-3.8)
	AOV (Angle Of View) : 2.38 degree-59.47 Degree
Focus Mode	Auto Focus (Max. 1.65 sec) / Fixed(1/50-1/10,000) 28Steps
Color / BW Control	True Color at Day time & True B/W at Night time
	Digital Micom Controlled Color Signal Changeable
Heater (option)	Ceramic Heater (Operating Temp : 10 °C (Auto Mode))
Cooling Fan (option)	Weatherproof Fan (Operating Temp : 30 °C (Auto Mode))
Operating Temperature (Humidity)	- 40 °C ~ +60 °C (10 ~ 95%)
MTTF	80,000 Hours
Power Source	DC 12V, 3A Regulated (Normal)
	Max. 5.3W
Remote Control	Rs485 multi-protocol control, 9600bps, Half Duplex
Camera ID Connection	1-255 Lines
Dimensions (W x H x D)	48.9 x 57.6 x 86 mm
Weight	242g



## SPEED Dome CAMERA

Optical 22x Day & Night Aluminum  
Topped SPEED Dome Camera



### ELECTRONIC FEATURES

- 1/4" SONY SUPER HAD 480TVL High Resolution image Sensor Built-in
- World Best Weatherproof, Tamperproof with Speed pan & Tilt Mechanism built-in
  - Maximum rotating Angle of PAN/Speed : 0-360°/ 2 sec
  - Maximum increasing degree of TILT/Speed : 0-90°/ 0.3 sec
- Digitalized Remarkable Color reproduction & Outstanding low Illumination Sensitivity
- Powerful OSD (On Screen Display) S/W Support, Display position Selectable
- Micom (Digital micro Processor) IC Control System Built-in
  - Automatic 28 steps PAN/TILT Speed Control available
  - Accurate 128 point preset function available
  - Stable 8 kinds of tour & 2/4 different pattern function available
  - Maximum 255 ID Camera Connection Available
- Accidental Surge and Shock protector Built-in.
- Reverse Polarity power protection and extremely low Power Consumption
- Extremely Low power Consumption & Wide Working Dual power tolerance.
- Internal / line lock function available

### ELECTRONIC FEATURES

- Robust aluminum Housing & Topped Polycarbonate Clear Cover Built-in
- Weatherproof (IP=66) for installing universal applications at indoor / Outdoor
- Easy install mechanism & Easy exchange various lens mountable
- Circular diffused reflection free mechanism
  - \*Corner mounting Bracket Available (Option)
  - \*Ceiling mounting Bracket Available (Option)



## SPEED Dome CAMERA



- High Sensitive 1/4 " SONY Super HAD CCD
- Built-in Auto Focus / Auto Iris
- 22x Optical Power Zoom Lens
- 10x Digital Zoom (220x Zoom)
- RS-232C TTL Interface
- 64 Preset Mode
- OSD (On Screen Display)

### SPECIFICATION

Image Sensor	1/4 " Type Solid State image Sensor
Effective Pixel	NTSC : 768 x 494 , PAL : 752 x 582
Resolution	480 TVL
Lens	22X Optical Zoom f=3.9mm(wide) 85.8mm(tele) F1.6 to F3.7
Angle of View	47 ° (wide end) 3.0 ° (tele end)
Min Distance	10mm (wide end) 1000mm(tele end)
Zoom	22X optical 10X digital
Sync System	Internal
White Balance	Auto
MTTF	80,000 Hours
Electronic Shutter	NTSC : 1/60 ~ 1/10,000
	PAL : 1/50 ~ 1/10,000
Min Illumination	1 Lx Day / Night (0.1Lx)
Video Output	Composite : 1.0Vp-p Unbalanced

