Starlight B1363TIR

User Manual Version #2: Camera with ICON Menu

PRECAUTIONS

- Do not open or modify.
- Do not open the case except during maintenance and installation, for it may be dangerous and can cause damages.
- Do not put objects into the unit.
- Keep metal objects and flammable substances from entering the camera. It can cause fire, short-circuits, or other damages.
- Be careful when handling the unit.
- To prevent damages, do not drop the camera or subject it to shock or vibration.
- Do not install near electric or magnetic fields.
- Protect from humidity and dust.
- Protect from high temperature.
- Be careful when installing near the ceiling of a kitchen or a boiler room, as the temperature may rise to high levels.
- Cleaning
- To remove dirt from the case, moisten a soft cloth with a soft detergent solution and wipe.
- Mounting Surface
- The material of the mounting surface must be strong enough to support the camera.

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the **FCC** rules. These limits are designed to Provide reasonable protection against harmful interference .when the equipment is operated in a residential environment. This equipment generates, uses, and radiates radio frequency energy; and if it is not installed and used in accordance
with the instruction manual, it may cause harmful interference to radio communications.

WARNING: Changes or modifications are not expressly approved by the manufacture.

TROUBSHOOTING

Before sending your camera for repair, check the following or contact our technical specialist.

No VIDEO
Check the coaxial cable and make sure it is connected securely.
Check the lens' iris adjustment at the menu setup of the camera.
Check the power supply and make sure the camera has the proper voltage and current.

Out-of-Focus VIDEO
Check the clear dome cover and the lens for dirt or fingerprints. Use a soft cloth and gently clean.
Check the lens manual focal and zoom adjustment. Field test monitor is recommended.

FEATURES

- 1/3" Sony Super HAD II CCD

- High Resolution 560 TV Lines

- 3.3 ~ 12mm Varifocal Auto Iris Lens

- 100ft Range IR with Intelligent Camera Sync

- True Day & Night / TDN5 (Electro Magnetic Mechanism)

- Star-Light (Super Low Light Technology)

- DRC (Dynamic Range Compressor)

  Dark spots in images particularly become more visible without overexposing the bright spots to create one perfect image.

- 3D-DNR (3D Digital Noise Reduction)

  Produces less noise and more color during low-light application.

- HME (Highlight Mask Exposure)

  Masks overly exposed light to produce a true video image of any environment.

- BLC (Back Light Compensation)

- Programmable Privacy Zone (6) & Motion Detection

- Easy Icon Driven OSD Menu with Built-In Joystick

- Auto Sensing 12VDC or 24VAC with Line Lock

- No Fog or Condensation under Any Weather Condition

DIMENSION (mm) & POWER REQUIREMENT

234.0

74.0

118.2

100.5

218.7

BNC JACK

VIDEO(yellow)

RED

BLACK

AC 24V or DC 12V

5mm TWIST SOLDERING
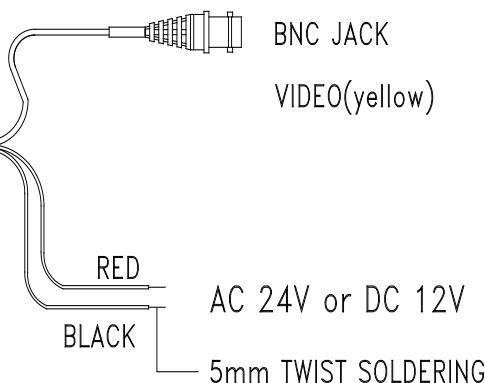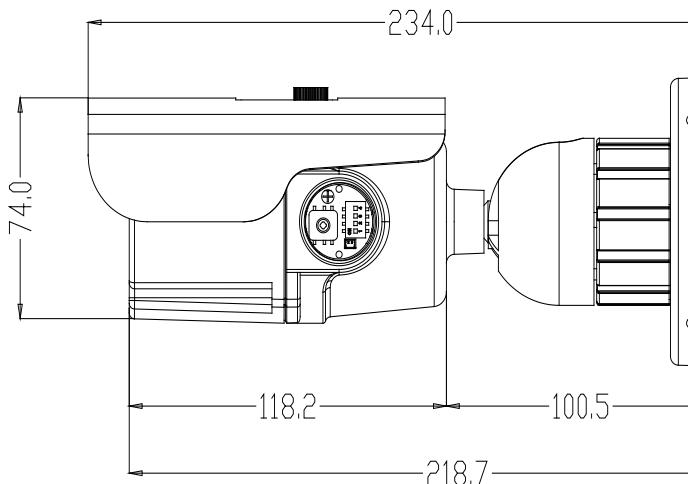
(OPTION)
CABLE LENGTH
STANDARD : 13.78 (350.0mm)

Ø4.2

Ø96.7

Ø78.0

POWER REQUIREMENT:
12VDC @1A
24VAC @ .500mA

Power Wire Maximum Distance		
Wire Gauge	**12VDC**	**24VAC**
24 AWG	80ft	323ft
22 AWG	128ft	513ft
20 AWG	203ft	815ft
18 AWG	323ft	1295ft
16 AWG	514ft	2056ft
14 AWG	816ft	3264ft
12 AWG	1295ft	5183ft
10 AWG	2057ft	8228ft

COAXIAL CABLE TYPE
MAXIMUM DISTANCE

|	
RG59/ U	750feet
RG6/U	1,000feet
RG11/U	1,500feet
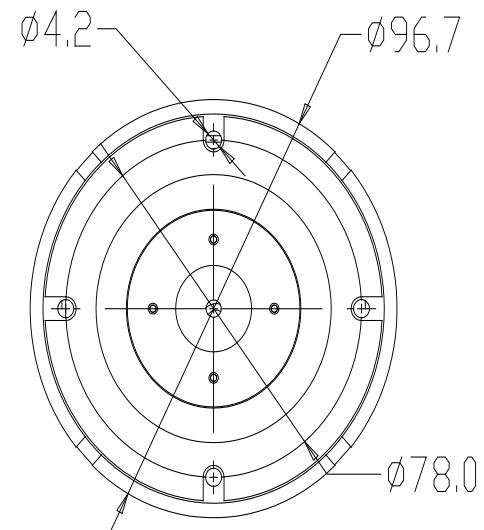
INSTALLATION AND ADJUSTMENT
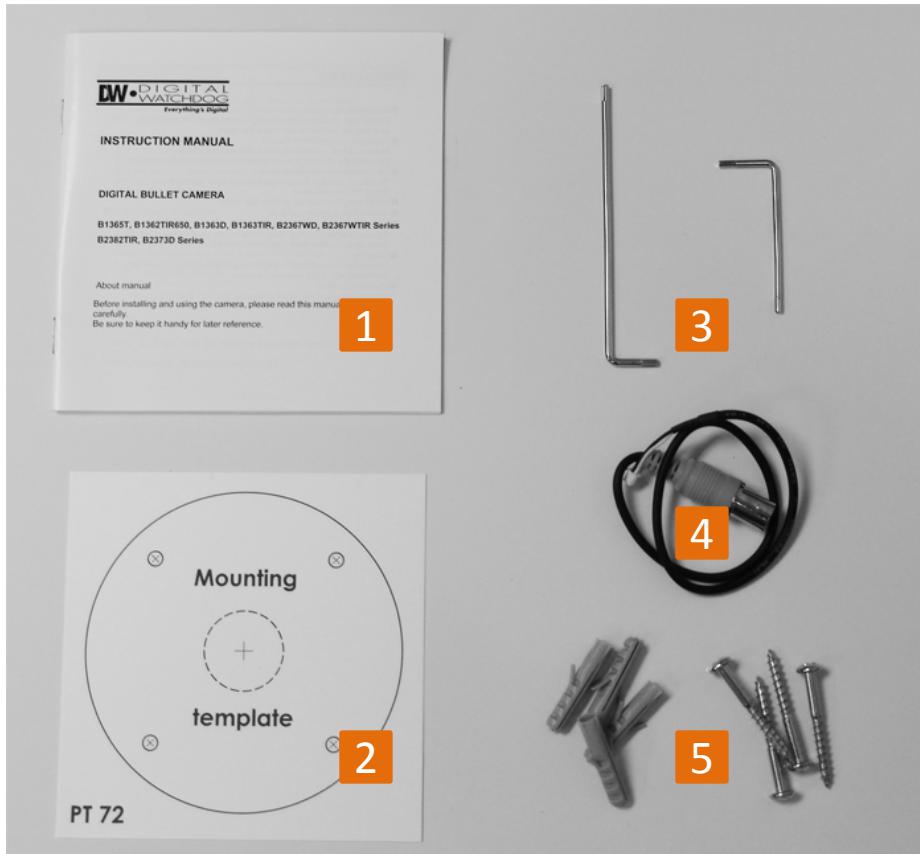
Included with DW Bullet Camera:

1. User Manual
2. Mounting Template
3. Two Security L-Key
4. Secondary BNC Cable for a Field Monitor
5. Four (4) Screws and Four (4) Dry Wall Anchors

CONTROL BOARD

2315

85.4

122.0   100.0

OSD controller

Video Test
Output
Connector

LENS ADJUSTMENT

1 ZOOM   FOCUS   2
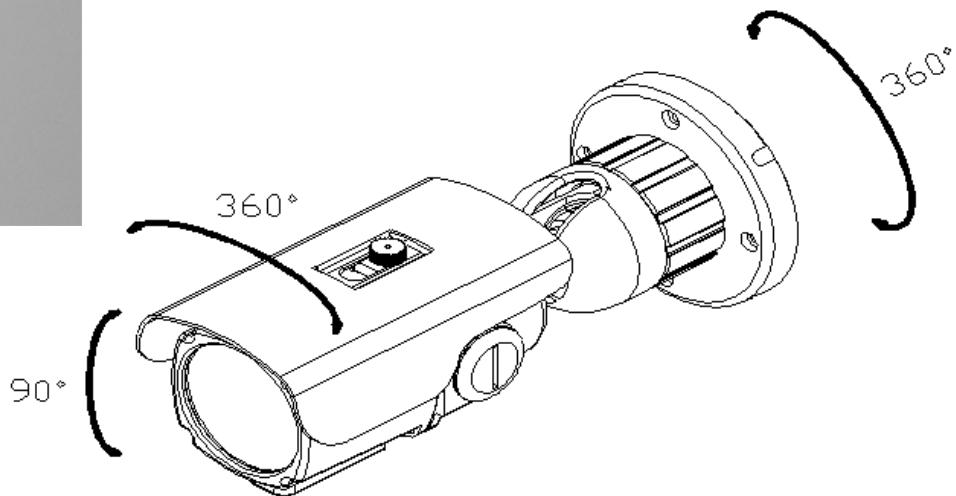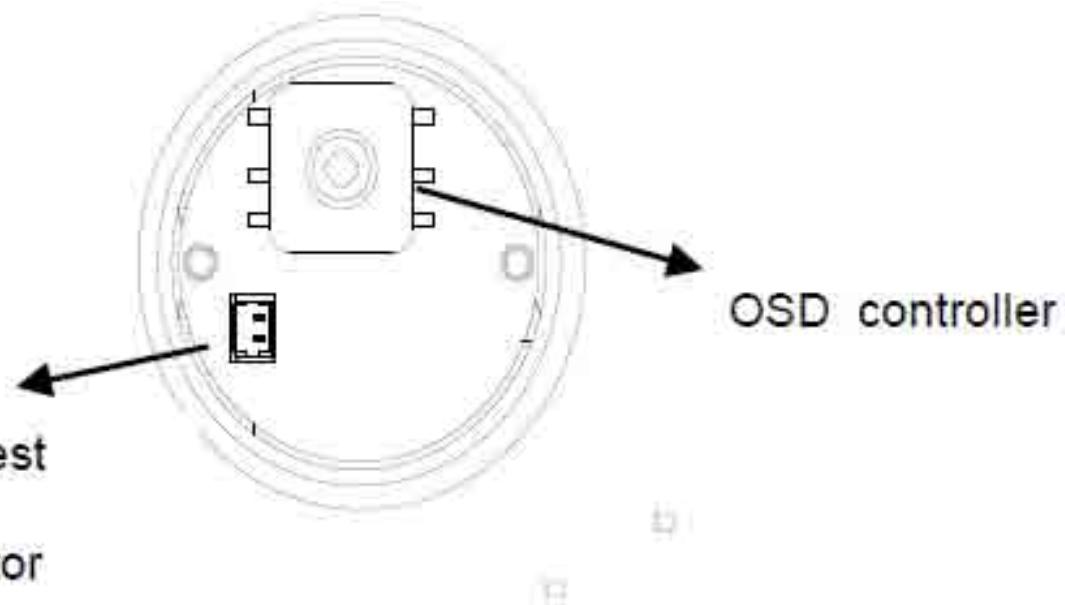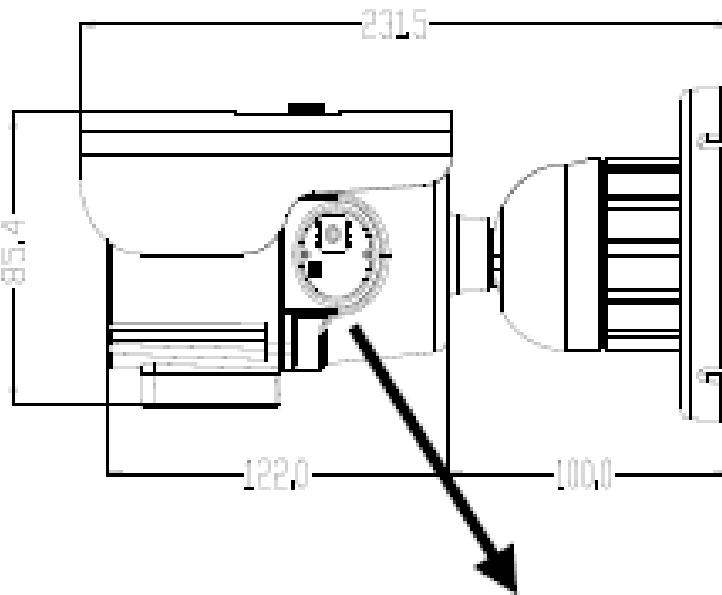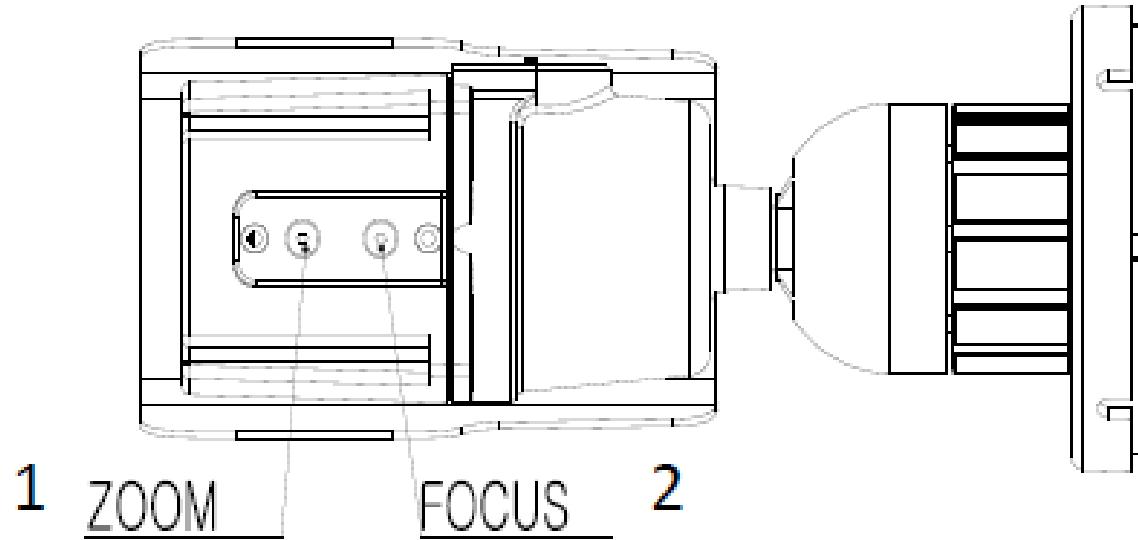
1. Rotate Zoom lever with the supplied Allen Key.

2. Rotate Focus lever with the supplied Allen Key.

EXPOSURE

LENS	DC (0~100) / MANUAL / VIDEO. (DC Lens is recommended.)
SHUTTER	1/160 /1/100 / FLC / 1/250 ~ 10000 / SENS-UP x2 ~ x250
BLC	OFF / ON BLC (Back Light Compensation)
AGC	HIGH / MIDDLE / LOW / OFF AGC (Auto Gain Control)
MAX-DR	OFF / ON (0 ~ 20) (Electronic Wide Dynamic Range)
STAR-LIGHT	AUTO (x2 ~ x250) / OFF (x32 is recommended.)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY RESET

COLOR

WB MODE	AWC / ATW / MANUAL / PUSH LOCK
R-Y GAIN	0 ~ 100
B-Y GAIN	0 ~ 100

DAY & NIGHT

Day & Night Mode	**AUTO** / **COLOR** / **BW** / **EX-CONT** **COLOR ----> BW** : Switching from color to BW; if the number is higher, the camera will only switch during a super low light condition. **BW ----> COLOR** : Switching from BW to color; this number should always be lower than COLOR to BW **Read Time**: Time interval to switch from Color to Black-and-White
	COLOR
	B&W: (BURST:OFF/ON) When the burst is OFF will make less noise
C-SUP	<u>**Color Suppression**</u> :Color will be reduced at low illumination, if the C-SUP Level is higher. 0 ~ 100 (Not Available when DNR is On.)
A-SUP	<u>**Aperture Suppression**</u>: The sharpness of the edges will be reduced at low illumination, if A-SUP Level is higher. 0 ~ 100 (Not Available when DNR is On.)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

FUNCTION	
MIRROR	OFF / MIRROR / V-FLIP / ROTATE
SHARPNESS	0 ~ 31
GAMMA	0.05 ~ 1.00 / USER
FREEZE	OFF / ON
NEGATIVE	OFF/ ON
3D-DNR	OFF / LOW / MIDDLE / HIGH 3D-DNR (3D Digital Noise Reduction)
D-ZOOM	OFF / ON (x1.0 ~ x32 PTZ)
SLC	OFF / ON SLC (Side Light Compensation)
HME	OFF / ON HME (Highlight Masking Exposure)
DIS	OFF / ON DIS (Digital Image Stabilizer)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

MOTION (OMNI-Focus Lens Only)	
MOTION	OFF / ON
	SET WINDOW
	ALL SET (Set the Entire Screen)
	ALL CLEAR (Clear the Entire Screen)
	SENSITIVITY (1 ~ 120)
	SHOW INDICATOR (OFF / ICON / TRACE)
	DELAY OUT (1 ~ 15) Motion Alarm Zoom-In Delay
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

PRIVACY	
	MASK 1 OFF / ON ⬏
	MASK 2 OFF / ON ⬏
	MASK 3 OFF / ON ⬏
	MASK 4 OFF / ON ⬏
	MASK 5 OFF / ON ⬏
	MASK 6 OFF / ON ⬏
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

SETUP	
CAMERA ID	0 ~ 255
TITLE	OFF / ON
DPC	OFF / AUTO DPC (Dead Pixels Cancellation)
MONITOR	CRT / LCD
LANGUAGE	English, Japanese, Chinese
BAUDRATE	2400 / 4800 / 9600 / 14400 / 19200 / 38400. **Protocol is Pelco-D** (fixed cannot be changed; hardcoded into the DSP)
OMNI LENS	OFF / 1 ~ 10 (for OMNI-PLUS CAMERA only)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

SYNC

SYNC	INTERNAL / AUTO
V-PHASE	0 ~ 199
EXIT JUMP	EXIT / SAVE & EXIT / FACTORY SET

EXIT

EXIT	Exit the menu
SAVE&EXIT	Exit the menu and save the setting
FACTORY SET	Reset the menu setting to factory default

SPECIFICATIONS:

5436 W Crenshaw St. Tampa, FL 33634
Tel: 866-446-3595 / 813-888-9555
Fax: 813-888-9262
www.Digital-Watchdog.com
technicalsupport@dwcc.tv
Technical Support Hours: Monday-Friday
8:30am to 8:00pm Eastern Time

Camera TYPE	Color / BW	B1363TIR
	Mount	3D Bracket
Image	Device	Super HAD II CCD
	Size	1/3"
	Pixels-Total	811(H) x 508 (V)
	Pixels-Effective	768(H) x 494 (V)
Scanning	System	525 line, 2:1Interlace
	Horizontal Frequency Internal Mode	15,734Hz
	Vertical Frequency Internal Mode	59.94Hz
Min. Scene Illumination	IR-LED On	0.0 Lux
	IR Distance	100ft Range
Functions	BLC	ON / OFF
	AGC	HIGH / MIDDLE / LOW /OFF
	DRC	OFF / INDOOR / OUTDOOR
	Mirror	OFF / MIRROR / V-FLIP / ROTATE
	STAR-LIGHT	AUTO (x2 ~ x250) / OFF
	3D-DNR	OFF / ON (0~100)
	HME	OFF / ON
	Privacy Zone	6 Programmable Zone / Size
Lens	Focal Length	3.3~12mm Varifocal Auto Iris Lens
Resolution	Horizontal	560 TV Lines [Color]; 580 TV Lines [BW]
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p(75 Load)
S/N Ratio	S/N Ratio	50dB
OSD	OSD	YES
Environmental Conditions	Operating Temperature	-10℃ ~ +55℃(14°F ~ 131°F)
	Humidity	Less than 90%
Power	Power Requirement	12VDC / 24VAC
	Power Consumption	1.96 [W] / 2.2 [W] LED Off; 4.3 [W] / 3 [W] LED On
Physical Specifications	Dimensions	85.4 x 234 mm
	Weight	1.4lbs
	Nema Type	IP66
	Certifications	FCC, RoHS, CE

![Digital Watchdog logo - DW Everything's Digital]

Starlight B1363TIR Bullet Camera

User Manual Version #1: Camera without ICON Menu

ABOUT MANUAL

Before installing and using the camera, please read this manual carefully.
Be sure to keep it handy for future reference.

CAMERA SETTINGS

SETUP	
LENS	[DC] - Brightness (DC Lens is recommended.)
	Manual. Shutter is available.
SHUTTER	FLK (Flicker Free)
	ESC (Electronic Shutter Control) - Brightness Adjustment
	Manual Adjustment
WHITE BALANCE	ATW 1800K ~10500K (ATW is recommended).
	Manual Adjustment
	AWC (Auto White Balance)
BACKLIGHT	OFF / LOW / MIDDLE / HIGH
AGC	NORMAL / HIGH / OFF (When the AGC is Off, DNR is not available.)
DNR	LOW / MIDDLE / HIGH / OFF
SENS-UP	AUTO x2 ~ x128 / OFF
SPECIAL	
CAMERA ID	OFF / ON
DAY NIGHT	AUTO / BW / EXTERNAL / COLOR
SYNC	INTERNAL / LINE
MOTION DETECTION	OFF / ON
PRIVACY	OFF / ON
MIRROR	OFF / ON
SHARPNESS	OFF / ON Level Adjustment
RESET	
RETURN	Return to main setup.

SPECIFICATIONS:

DW · DIGITAL WATCHDOG
Everything's Digital

Model		B1363TIR (Day & Night)
	Mount	3D Bracket
Image	Device	1/3" Super HAD CCD
	Pixels-Total	811(H) x 508(V)
	Pixels-Effective	768(H) x 494(V)
Scanning	System	525 line, 2:1Interlace
	Horizontal Frequency Internal Mode	15,734Hz
	Vertical Frequency Internal Mode	59.94Hz
Min. Scene Illumination	F1.5	0.3 Lux [TDN: 0.001 Lux]
OSD Controls	Day & Night	AUTO / COLOR / B/W
	Sens-up	AUTO / OFF
	DNR	OFF / LOW / MIDDLE / HIGH
	AGC	OFF / LOW / MIDDLE / HIGH
	AWB	ATW / AWC / Manual
	Motion Detection	ON / OFF (Area / Sensitivity)
	Mirror	ON / OFF
	Privacy Zone	4 Programmable Zone / Size
Lens	Focal Length	Pan-Focus Lens [3.3 ~ 12mm (3.6x Optical)]
Resolution	Horizontal	540 TV Lines [at TDN (B/W) :570 TV Lines]
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p(75 Load)
S/N Ratio	S/N Ratio	50dB
Environmental Conditions	Operating Temperature	-10℃ ~ +55℃(14℉ ~ 131℉)
	Humidity	Less than 90%
Power	Power Requirement	12VDC/24VAC
	Power Consumption	12VDC: 410mA (LED OFF), 737 (LED ON),1A (Heater ON) 24VAC: 308mA (LED OFF), 478 (LED ON), 500mA (Heater ON)
Physical Specification	Dimensions(H x L)	85.4 x 217.5mm
	Nema Type	IP66
	Weight	2.3 lbs
Certifications	CE, FCC, RoHS	Certified