



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**INFORMATION** - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules & CE Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**WARNING** - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:

Do NOT use power sources other than those specified.

This installation should be made by a qualified service person and should conform to all local codes.

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3 PIXIM True Day/Night IR Bullet Camera

#### Warning

### Features

#### High Resolution Colour for Crisp, Clear Video

690TVL Effective (Colour)
 800TVL Effective (B/W)

### Wide Dynamic Range (WDR)

The camera delivers clear high quality pictures, even when backlit, by increasing exposure in dark areas while decreasing it in bright areas; a corrected image with clear details results.

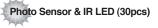
· 120dB maximum dynamic range

## DNR (Digital Noise Reduction)

The amount of low illuminance noise has been significantly reduced, and the signal-to-noise ratio (S/N ratio) as well as horizontal resolution, have been improved resulting in a clear and sharp image image even in low light.

### Filter Changeable Day & Night

This camera has a function that automatically selects the mode that is appropriate for daytime or night-time conditions. The COLOUR mode operates in daytime conditions to provide optimum colours and BW mode operates in nighttime conditions to enhance the definition of the image.



IR LEDs are auto switching according to the control of photo sensor.

#### Motion Detection

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



Built-in Coax and UTP video connections

### RS-485 Communication Control Support

Remote OSD menu control via an RS-485 interface is supported.

### Controlled by OSD Menu

The camera can be controlled by selecting text displayed on the monitor screen.

### Additional Functions

SYNC (INT/LL), SENS-UP, FREEZE, FLIP (H/V-REV), D-ZOOM, SHARPNESS and PRIVACY functions are provided.



#### The camera requires periodic inspection.

Contact an authorised technician to carry out the inspection.

#### Stop using your camera when you find it malfunctioning.

If the camera emits smoke or is unusually hot for a long period, a fire may be caused.

#### Do not Install the camera on a surface that can not support it.

If the camera is installed on an inappropriate surface, it may fall and cause injury.

#### Do not hold plug with wet hands.

It could cause an electric shock.

#### Do not dis-assemble the camera.

It may result in an electric shock or other hazards.

#### Do not use the camera close to a gas or oil leak.

It may result in a fire or other hazards.



### Precautions

Do not install the camera in extreme temperature conditions.



Only use the camera under conditions where temperatures are between -10°C and +50°C. Be especially careful to provide ventilation when operating under high temperatures.

Do not install the camera under unstable lighting conditions.



Severe lighting change or flicker can cause the camera to work improperly.

Do not install or use the camera in an environment where the humidity is high.



It can cause the image quality to be poor.

Do not touch the front lens of the camera.



This is one of the most important parts of the camera. Be careful not to leave fingerprints on the lens cover. Do not drop the camera and protect it from physical shocks.



Never keep the camera pointed directly at strong light.



It can cause malfunctions to occur.

It can damage the CMOS.

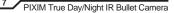
Do not expose the camera to radioactivity.



If exposed to radioactivity the CMOS will fail.

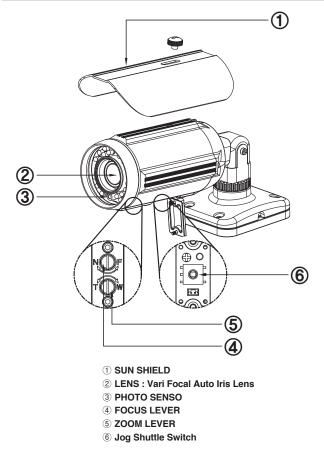


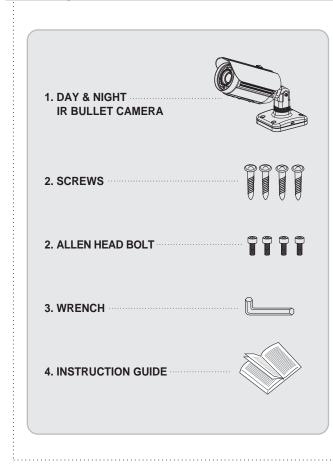
- If the camera is exposed to spotlight or an object reflecting strong light, smear or blooming may occur.
- Please check the power supply satisfies the normal specification before connecting the camera.



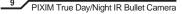
### Components

### Names and Functions of Parts





PIXIM True Day/Night IR Bullet Camera



### Names and Functions of Parts

### Names and Functions of Parts

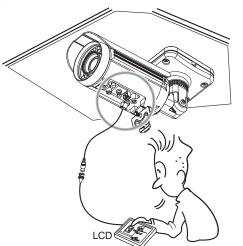
#### **6 Jog Shuttle Switch**



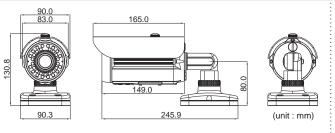
- **SET** : Used to access menu mode and for configuration.
- ▲: Moves cursor up in the menu screen.
- T: Moves cursor down the menu screen.
- : Moves cursor left in the menu screen.: Parameter change.
- Moves cursor right in the menu screen.Parameter change.



- A service monitor can be connected to the camera, allowing the operator to easily adjust camera angles and settings locally during installation.



### Dimensions



# Installation Flange adaptor Sun Shield Sun Shield Bolt TP 4 x 20 Flange Nut Flange Allen Head Bolt M4 x 10 Front Case Body Case Rear Case

Switch Cover

#### 1. Bracket & Camera Mounting

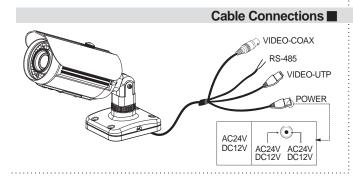
- Affix the bracket to the mounting surface.
- Use the supplied screws to attach to the mounting surface using the pre-drilled holes in the bracket.

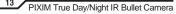
#### 2. Power Connector & Monitor Impedance

- Use a DC12V/1A regulated PSU or AC24V 1A.
- To avoid fire or shock hazards, always use a CE marked PSU.
- Set the monitor impedance switch to  $75\Omega$ . Check the impedance switch if the screen is blurred.

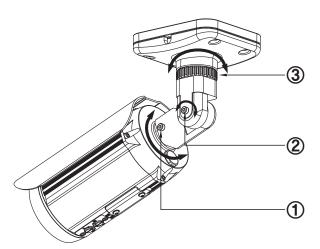
#### 3. Viewing Angle & Focus Adjustment

- To widen the viewing angle, rotate the Zoom Lever to the Left, and to the right to narrow the viewing angle.
- Rotate the Focus Lever Left or Right to focus the Lens.
- 4. Sunshield Mounting
- After completing view & focus adjustments, clip the sunshield into place.
- 5. Remote control & VBS Extra
- Remove the cap and connect the connector of the remote control and VBS Extra to the cable socket.
- 6. When using UTP Cable
- Connect UTP (Unshielded Twisted Pair) directly to the UTP output of this camera. The camera contains a passive UTP Balun.
- A UTP receiver, either passive or active, is needed at the Monitor or DVR to connect your UTP cable.
- When connecting the UTP cable make sure the video signal is transmitted over one pair of wires and the polarity is correct.
- Only use Category 5e/6 24 awg cable.





### How to Operate the Bracket



1 Loosen the Bolt

Rotate the camera body what want your direction and tighten the Bolt. (360° rotation)

Loosen the Bolt

Rotate the camera body what want your direction and tighten the Bolt. (90° rotation)

- Due to the size and weight of this product, it is recommended that the installer hold on to the mounting bracket junction instead of the camera itself while tightening the bolt (2).
- ③ Loosen the Flange Nut

Rotate the camera body what want your direction and tighten the Flange Nut.  $(360^\circ\, rotation)$ 

The camera can be controlled by using external controllers. (RS-485 Communication)

Communication Control Connector

#### Control via RS-485 Interface

The camera can be controlled by using an external controller equipped with RS-485 communications.

• To control using a DVR or keyboard controller

Connect the RS-485 cable (TRX+, TRX-) to the connection port of the 485 control board in the DVR or controller.

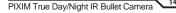
485 Control Board Connection Port	RS-485 Control Port
(+) CONNECTION TERMINAL (TRX+)	485+
(-) CONNECTION TERMINAL (TRX-)	485-

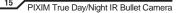
#### \* RS-485 communication default initial values

Item	Camera ID	BAUD RATE
Initial value	1	2400



- To control the camera use Pelco-D protocol.
- Set Preset 95 : Enters into OSD menu.
- Iris Open command : Set key function.
- Iris Close command : Cancel function.





Keyboard

Menu			
	SETUP men	iu	
PRESETS	· NORMAL · BACKLIGHT	·INDOOR	· OUTDOOR
EXPOSURE	LENS SELECT     EXPOSURE MO     DNR     COLOR ROLL		· BLC · AGC · HIGHLIGHT · SENS-UP
WDR	· MIDDLE · LOW	· HIGH	·USER
WHITE BALANCE	· ATW · AWB	· INDOOR · MANUAL	· OUTDOOR
DAY&NIGHT	· AUTO	· COLOR	• BW
IMAGE ADJ.	• FREEZE • COLOR GAIN	• Flip • gamma	· SHARPNESS · FOCUS
SPECIAL	· CAMERA ID     · MOTION     · RS485 SETUP	VIDEO OUT     PRIVACY MASK     RESET	
EXIT MENU	· VERSION · CANCEL	· SAVE&EXIT	• DEFAULT

16

### Settings

Settings can be made using the 5 buttons located in the camera.



- 1. Press the SET button
  - Settings can now be made. The SETUP menu is displayed on the monitor.

SETUP	
PRESETS	NORMAL
EXPOSURE	
WDR	MIDDLE
WHITE BALANCE	ATW
DAY&NIGHT	AUTO
IMAGE ADJ	
SPECIAL	
EXIT MENU.	

- 2. Select a menu item from the list available by using the UP and DOWN buttons.
  - Funtions are selected using up and down buttons.
    The selected position is displayed in blue.

•	SETUP		
Select the function using	<ul> <li>PRESETS EXPOSURE</li> </ul>	NORMAL —	Change the status using the LEFT or RIGHT button.
	WDR	MIDDLE	
	WHITE BALANCE	ATW	
	DAY&NIGHT	AUTO	
:	IMAGE ADJ		
	SPECIAL		
	EXIT MENU.		
•			

3. Set up a selected item by using the Left and Right buttons. 4. To finish and save the settings, select 'EXIT MENU' and press the SET button.

(Note)

• An item with the .. icon also has sub-menus. To select a sub-menu, press the SET button.

### PRESETS

SETUP	
PRESETS	NORMAL
EXPOSURE	
WDR	MIDDLE
WHITE BALANCE	ATW
DAY&NIGHT	AUTO
IMAGE ADJ	
SPECIAL	
EXIT MENU.	
 Normal environment.	

- INDOOR : Indoor environment.
- OUTDOOR : Outdoor environment.
- BACKLIGHT : Backlight environment.

### EXPOSURE

SETUP	
PRESETS	NORMAL
EXPOSURE	
WDR	MIDDLE
WHITE BALANCE	ATW
DAY&NIGHT	AUTO

When the SETUP menu screen is displayed, select 'EXPOSURE' by using the Up and Down buttons so that the arrow indicates 'EXPOSURE'.

EXPOSURE		
LENS SELECT	DC	
BLC	OFF	
EXPOSURE MODE	50 i	
AGC	MEDIUM	
DNR	MIDDLE	
HIGHLIGHT	ON	
COLOR ROLL	OFF	
SENS-UP	2X	
PREVIOUS PAGE		

#### • LENS SELECT : Using this function, you can control the screen brightness. · DC / Manual : Select Lens Type.

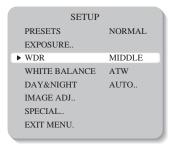
LENS N	MENU		
► DC GAIN	0	120	255
AI THRESH	-48	-24	60
PREVIOUS PAG	Е		

- BLC : To optimize the scene when there is a strong backlight behind the object.
  - ON / OFF selectable



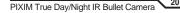
- EXPOSURE MODE : To select the number of fields and number of exposure cycles.
  - 50i/25p selectable
- AGC (AUTO GAIN CONTROL) : In dark environments, the higher the gain level, the brighter the screen but the higher the noise.
  - OFF / LOW / MEDIUM / HIGH selectable
- DNR (Digital Noise Reduction) : The level of background noise in low light decreases automatically as the level of gain changes.
  - OFF / LOW / MIDDLE / HIGH selectable
- HIGHLIGHT : To optimise the scene when high dynamic range lighting is detected.
  - ON : bright parts of the image are most visible.
  - OFF : dark parts of the image are most visible.
- COLOR ROLL : To control a detector that finds colour fluorescent roll.
   OFF / LOW / HIGH selectable
- SENS-UP : When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
  - 2X, 4X, 8X, 16X, 32X
  - OFF : Deactivates the SENS-UP function.

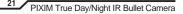
### WDR



- WDR : When the image has simultaneous bright and dark areas, the Wide Dynamic Range makes both areas distinct.
  - LOW / MIDDLE / HIGH / USER selectable







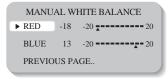
#### WHITE BALANCE

- Use the White Balance function to adjust the screen colours.
- 1. Position the cursor to point to WHITE BAL on the SETUP menu screen, select using the Up and Down buttons.
- 2. Select the desired mode using the Left and Right buttons.

SETUP	
PRESETS	NORMAL
EXPOSURE	
WDR	MIDDLE
WHITE BALANCE	ATW
DAY&NIGHT	AUTO
IMAGE ADJ	
SPECIAL	

\* Select one of the following 5 modes, as appropriate.

- ATW : The ATW mode continuously monitors.
- INDOOR : Select when the colour temperature is between 4000°K and 8500°K
- OUTDOOR : Select when the colour temperature is between 2000°K and 11000°K
- AWB : To obtain the optimum state under the current luminance levels, direct the camera to point toward a sheet of white paper and press the SET button. If the environment changes, including the light source, the white balance will require re-adjustment.
- MANUAL : Select to "fine-tune" the White Balance manually. Set White Balance first using the ATW or AWB mode. Afterwards switch to MANUAL mode, fine-tune the White Balance and then press the SET button.



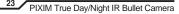
#### ) Note

- Under the following conditions White Balance may not work properly. In such cases, select the AWC mode.
- ① When the colour temperature of the subject environment has a very high temperature range (e.g. clear sky, or sunset)
- 2 When the ambient illumination of the subject is low.
- ③ If the camera is directed toward a fluorescent light, or is installed in a place where illumination changes dramatically, the White Balance operation may become unstable.

#### DAY&NIGHT

SETUP	
PRESETS	NORMAL
EXPOSURE	
WDR	MIDDLE
WHITE BALANCE	ATW
▶ DAY&NIGHT	AUTO
IMAGE ADJ	
SPECIAL	
EXIT MENU.	

 AUTO : This camera has an IR Cut-Filter and automatically changes to the appropriate mode according to lighting levels. To set up the switching time for the AUTO mode press the SET button.

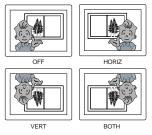


DAY&NIGHT SETUP			
► NIGHT MODE BW+burst			ourst
		BW COLC	D
TIME DELAY		COLC	лк 
TIME DELAY	0	1	255
PREVIOUS PAG	ЪЕ		

- COLOR : The picture is displayed in colour.
- B/W : The picture is always displayed in black and white.

IM	AGE		
► FREEZE		OFF	
FLIP		OFF	
SHARPNESS	-8	<b>0</b>	8
COLOR GAIN	-8	Ô	8
GAMMA 45	25		100
FOCUS			
PREVIOUS PA	GE		

- FREEZE : View still pictures.
  - OFF / ON selectable
- FLIP : OFF / HORIZ / VERT / BOTH selectable

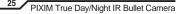


- SHARPNESS : The outline of the video image becomes cleaner and more distinctive as the level of SHARPNESS increases. If the level gose up excessively, however, it may affect the video image and generate noise.
   The available range of level is -8 ~ 8
- COLOR GAIN : To control the colour level in the video.
   The available range of level is -8 ~ 8
- GAMMA : Users can change the gamma setting between 25 and 100

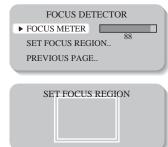
#### IMAGE ADJ.

When the SETUP menu screen is displayed, select 'IMAGE ADJ.' using the Up and Down buttons.

	SETUP	
	PRESETS	NORMAL
	EXPOSURE	
	WDR	MIDDLE
	WHITE BALANCE	ATW
	DAY&NIGHT	AUTO
₽	· IMAGE ADJ	
	SPECIAL	
	EXIT MENU.	



• FOCUS : To adjust the lens focus.



#### SPECIAL

When the SETUP menu screen is displayed, select 'SPECIAL' by using the Up and Down buttons so that the arrow indicates 'SPECIAL'.

SETUP	
PRESETS	NORMAL
EXPOSURE	
WDR	MIDDLE
WHITE BALANCE	ATW
DAY&NIGHT	AUTO
IMAGE ADJ	
▶ SPECIAL	
EXIT MENU.	

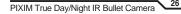
SPECIAL	
<ul> <li>CAMERA ID</li> </ul>	OFF
VIDEO OUT	
DZOOM	OFF
MOTION	OFF
PRIVACY MASK	
SYNC	INT
RS485 SETUP	
RESET	
PREVIOUS PAGE	

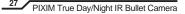
- CAMERA ID : User can enter a unique name for the respective camera. The maximum length of the ID is ten characters.
  - You can choose the ON and OFF with the selector. If you select ON, the entered camera ID is displayed at the selected position in the video picture (normal operation).
  - Please select the setup button while in On mode.
  - · Select the desired position with the selector.

CAMERA	ID	
▶ ID	CAM-001	
POSITION	UP-LEFT	
PREVIOUS PAGE		

- 1 Move the cursor to the letter required by using the Set-Up button.
- ② Select an ID from A,B~Y,Z, a,b~y,z, 0,1~8,9 by using the LEFT and RIGHT buttons.
- 3 Repeat the above steps until the ID is complete.

	CAMER	A ID	
	ID	CAM-001	
Ľ	<ul> <li>POSITION</li> </ul>	UP-LEFT	
	PREVIOUS PAGE		
			1

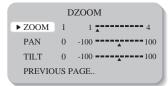




- 1 Select the position where the ID is to be displayed by using the LEFT and RIGHT buttons.
- VIDEO OUT : Move the cursor to select the video system
   VIDEO STANDARD : You can control NTSC / PAL, Video level, Sync level, Burst level.



● DZOOM : Digital P/T/Z are used to create a zoom lens effect. Zoom Factor (1X to 4X), Pan (±100%, center of image can be moved to left and right edges of screen), Tilt (±100%, center of image can be moved to top and bottom edges of screen)



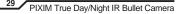
 MOTION : This product has a feature that allows you to observe movements of objects in on the screen, hence a single individual can conduct supervision efficiently.

The camera detects an object's movement by sensing disparity of outline, and level of brightness and colour.

MOTION DI	ETEC	TION		
► ACTIVITY THR.	0	25	255	
MESSAGE TIME	1	3	10	
SETUP MOTION 2	ZONE			
PREVIOUS PAGE				
				/
MOTION ZC	NE S	ETUP	,	
	-	_	_	
OTION ZONE Pos				t

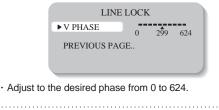
- White : MOTION ZONE Position movement Green : MOTION ZONE Size enlargement Red : MOTION ZONE Size reduction
- For MOTION ZONE Confirm, long press SET button
- **PRIVACY MASK** : Hide an area you want to hide on the screen.

PRIVACY MASK	SETUP
▶ PRIVACY MASK	OFF
MASK COLOR	WHITE
PREVIOUS PAGE	



ENABLE MAS	KS (1 to 6)	ENABLE MASH	KS (7 to 12)
MASK 1	ON	MASK 7	OFF
MASK 2	OFF	MASK 8	OFF
MASK 3	OFF	MASK 9	OFF
MASK 4	OFF	MASK 10	OFF
MASK 5	OFF	MASK 11	OFF
MASK 6	OFF	MASK 12	OFF
PREV. NEXT.		PREVIOUS PAGE	Ε

- White : PRIVACY-ZONE Position movement Blue : PRIVACY-ZONE Size enlargement or reduction
- For PRIVACY-ZONE Confirm, long press SET button
- SYNC : Two synchronisation modes are available, INTERNAL and EXTERNAL LINELOCK. In LINE-LOCK mode, it synchronises the video signal between cameras without a synchronous generator. The line-lock synchronisation is only used in areas of 60Hz (NTSC) / 50Hz (PAL).
  - INT : Internal synchronisation
  - LL : External line-lock synchronisation
  - If 'LL' is selected, it can be adjusted to the desired phase. Press the SET button.



 RS485 SETUP : This function sets up the camera communication status when controlling the camera through an external control device.

RS48:	5 SETUP
► CAMERA # :	1 < 1 > 255
PROTOCOL	PELCO-D PIXIM MULTIDROP
BAUD RATE	< 2400 > < 4800 > < 9600 > < 19200 >
PREVIOUS PAC	ìE

RESET : Resets the camera.

EXIT MENU. EXIT MENU VERSION : 7.3.2-7.0.281

> SAVE&EXIT DEFAULT CANCEL

- VERSION : 7.3.2-7.0.281
- SAVE&EXIT : Saves all the setting menus and then exits.
- DEFAULT : Resets the camera settings to the factory defaults.
- CANCEL : Cancel to the camera settings.



### Troubleshooting

If you have trouble operating your camera, refer to the following table. If the guidelines do not enable you to solve the problem, contact an authorised technician.

Problem	Solution	
Nothing appears on the screen.	<ul><li>Check the power connections.</li><li>Check the VIDEO signal line connection.</li></ul>	
The image on the screen is dim.	<ul> <li>Make sure the lens is clean. Clean the lens with a soft clean lint free cloth.</li> <li>Adjust the monitor contrast &amp; brightness controls.</li> <li>Re-position the camera if necessary.</li> </ul>	
The image on the screen is dark.	<ul> <li>Adjust the contrast control of the monitor.</li> <li>If you have an intermediate device, set the 75Ω / Hi-z properly.</li> </ul>	
The camera is not working properly, and the surface of the camera is hot.	Check that an appropriate power source is connected to the camera.	
The Motion Detection function does not work.	Check that MOTION DET in the SPECIAL SETUP is not set to 'OFF'.	

Solution		
Check the WHITE BAL settings in the SETUP menu		
Check that the camera is not facing toward the sun.		
Check the polarity between the RS-485 Control Port and the RS-485 cable. <u>485 Control Board Connection Port</u> (+) CONNECTION TERMINAL (TRX+) (-) CONNECTION TERMINAL (TRX-) Check the RS-485 Communication default settings * DS 485 Communication default settings		
Item Initial value	Camera ID 1	BAUD RATE 2400
	Check that the c sun.     Check the polari Port and the RS <u>485 Control Board ( (+) CONNECTION ( (-) CONNECTION ( -) CONNECTION ( • Check the RS-48 * RS-485 Comm Item </u>	Check the WHITE BAL settings in the Check that the camera is not far sun.     Check the polarity between the Port and the RS-485 cable. <u>485 Control Board Connection Port</u> (+) CONNECTION TERMINAL (TRX+)     (-) CONNECTION TERMINAL (TRX-)     Check the RS-485 Communication defau     tem Camera ID



### Specifications

ITEM	SPEC.		
Power Consumption	400mA (AC24V) / 650mA (DC12V)		
	500mA (DC12V Only)		
Image Sensor	PIXIM 1/3" High Sensitivity Digital Sensor		
Signal processing	17-bit Digital Signal Processing		
Transfer Format	Progressive with Segmented Frames		
Sync. System	Internal / Line Lock		
Effective Pixels	758(H) x 540(V)		
Lens	ADL 2.8mm ~10mm DC AI VF Lens		
Horizontal Angle of View	93.7°~ 28.3°		
Dynamic Range	120dB(Max), 102dB(Typical)		
Horizontal Resolution	690TVL Effective (Colour), 800TVL Effective (B/W		
Min. Illumination	0Lux with IR LED (30pcs)		
Day & Night	AUTO / COLOR / B/W		
White Balance	ATW / AWB / INDOOR / OUTDOOR / MANUAL		
WB Range	2000°K~11,000°K		
Shutter Speed	up to 1/30, 720 sec		
Sens-up	AUTO / OFF (Selectable x2 ~ x32)		
Privacy Masking	12 Zones		
Remote Control	RS-485		
AGC	OFF / LOW / MEDIUM / HIGH		
Image Flip	OFF / HORIZ / VERT / BOTH		
Camera ID	ON / OFF		
S/N Ratio	More than 50dB		
Video Output	Composite video output 75 ohm terminated		
UTP	Built-in		
OSD	Built-in		
Operating Humidity	30% ~ 90% RH		
Operating Temp.	-10°C to 50°		
Weatherproof	IP66		
Weight	Appro. 1,100g		

### MEMO

### MEMO

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## Model : GB83TSPXIR PIXIM True Day/Night IR Bullet Camera

**Instruction Guide** 





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