

## Specification

<b>Model</b>	<b>TBK-BUL4745EIR</b>
Pick up Element	1/2.9" CMOS
Effective Picture Elements (HxV)	NTSC/ PAL:1928(H)x1088(V)
Horizontal Resolution	1080P
Minimum Illumination	0.1 Lux/F1.6 0Lux (with IR LED ON)
S/N Ratio	More than 41dB
Scanning System	Progressive
Synchronous System	Internal, Negative sync.
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
Gamma Characteristic	0.45
IR Distance	50-55 Meters (with $\phi$ 5X72PCS Infrared LED)
IR Status	Under 10Lux by CDS
IR Power On	CDS AUTO Control/ICR
Video Output	1Vpp, 75 $\Omega$
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%) / 840mA
Lens	5-50mm Manual Zoom Lens
Dimension (mm)	260(W)x136(H)x115(D)
Weight (g)	2300
Storage Temperature	-30~+60°C RH95% MAX
Operating Temperature	-10~+50°C RH95% MAX

Congratulations on your purchase of this product. This User Guide suits TBK-BUL4745EIR product. We adopt the latest CMOS technical of sensor and driver. The most attractive characteristics are small and easy hidden, suits the elevator and corridor. In addition, it owns the characters of high definition and stability, strong anti-jamming, rich and real color. Fixing and using this model are convenient too. It is very good for you to apply to your CCTV system.

Please read this instruction manual carefully to ensure proper use of the product.



The symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The symbol 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.

	<b>CAUTION:</b> <b>RISK OF ELECTRIC. DO NOT OPEN</b>	
<b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER OR BACK NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</b>		

**CAUTION: TO PREVENT ELECTRIC SHOCKS AND RISK OF FIRE HAZARDS, DO NOT USE OTHER THAN SPECIFIED POWER SOURCE.**



**Note:**

- Please note the camera's operating temperature and its using environment requirement. Avoid using the camera at too high or too low temperatures. The operating temperature is -30~+60°C. (Recommendatory operating temperature is -10~+50°C.)
- Never make the camera face the sun or bright object. Otherwise, it will damage the CMOS
- Do not mount the camera near by the radiator or heater.

## 4 in 1 Weatherproof IR Color Camera TBK-BUL4745EIR



**Notes: Before providing power for the camera, please read this User Guide in detail!**

## Packing List

No	Name	Model	Number
1.	Weatherproof IR Color Camera	TBK-BUL4745EIR	1
2.	User Guide	TBK-BUL4745EIR	1

**BRIEF OF PRODUCT**

**\* Sensor (CCD)**

Adopt 1/2.9" COMS Sensor.

**\* Auto Gain Control (AGC)**

Built-in auto gain control (AGC) circuit. The color camera can get high definition picture in low Lux condition.

**\* Scanning Mode**

NTSC or PAL mode.

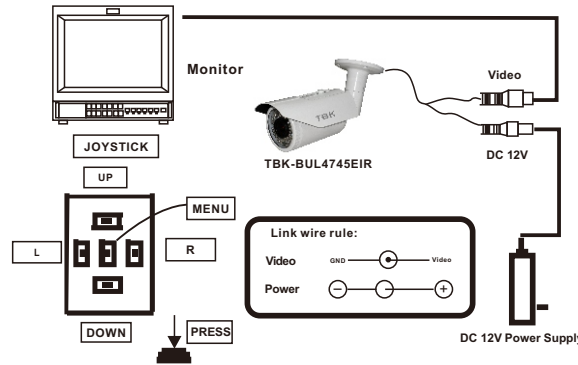
**\* Water Resistance**

IP66.

**\* OSD SETTING**

OSD SET	LENS	MANUAL		
		DC	MODE/IRIS SPEED	
	EXPOSURE	AGC:0-15		
		BRIGHTNESS		
		D-WDR	ON/AUTO/OFF	LEVEL
		DEFOG	AUTO/OFF	POSE/SIZE/GRAADTION/DEFAULT
	BACKLIGHT	BLC	LEVEL/AREA/DEFAULT	
			SELECT	AREA1~AREA4
		HSBLC	LEVEL	
			MODE	ALL DAY
		NIGHT	AGC LEVEL	
	WHITE BAL	ATW/AWC--SET/INDOOR/OUTDOOR/MANUAL/AWB		
	DAY&NIGHT	EXT	D--N(DELAY):0	
			N--D(DELAY):0	
		AUTO	D--N(AGC):1-255	
			N--D(AGC):1-255	
	B/W	BURST/IR SMART/IR PWM		
	NR	2DNR	MIDDLE/HIGH/OFF/LOW	
		3DNR	MIDDLE/HIGH/OFF/LOW	
	SPECIAL	CAM TITLE OFF/ON		
D-EFFECT		FREEZE	OFF/ON	
		MIRROR	MIRROR/V FLIP/ROTATE/OFF	
		NEG.IMAGE	OFF/ON	
LANGUAGE	ENG/CHN1/CHN2/GER/FRA/ITA/SPA/POL/RUS/POR/NED/TUR			
ADJUST	SHARPNESS	AUTO	LEVEL/START AGC/END AGCRETU	
	VIDEO.OUT	PAL/NTSC		
EXIT	SAVE&END/RESET/NOT SAVE			

**CONNECTING**



**Switch to AHD / CVBS / CVI / TVI mode**

- . Press "UP" button for 5S to CVI mode
- . Press "DOWN" button for 5S to TVI Mode.
- . Press "L" button for 5S to CVBS Mode.
- . Press "R" button for 5S to AHD Mode.
- . Press button for 5S to change the PAL/NTSC system.
- . Press button to enter into the OSD menu

**TROUBLE AND SOLUTION**

- 1. No Picture after providing power**
  - . May be the power supply voltage abnormity, please check the power supply voltage and pole whether exactitude.
  - . Please check all the connecting cable and monitors whether be connected correctly or not.
- 2. The picture level direction have flowing interference ripples**
  - . May be caused by the power supply AC ripples, it need filter the wave of the power supply.
  - . Check the monitor and peripheral equipments used.
- 3. The picture background color changes continuously**
  - . The fluorescent lamp's electromagnetic field cause color roll. This is proper phenomenon of the cameras.
  - . Reduce the fluorescent lamp numbers or increase the distance between the camera and the fluorescent lamps can improve it.
  - . Use power supply external sync. camera can solve it.
- 4. The picture smear too mass**
  - . The power supply's voltage unstable.
  - . Connecting cables not connect correctly or have high impedance.

**NOTES**

- The power supply must through safe attestation. Its output voltage, current, voltage polarity and operating temperature must match the camera's requirement.
- When using the camera in the thunderbolt condition, please note to mount Anti-thunderbolt device or put off the power supply plug and cable.
- Do not attempt to disassemble the camera. If the camera can not work, please contact local franchiser or our company.