

# ADVANCED HIGH RESOLUTION COLOR CAMERA SK-B160 MANUAL

## CAUTION AND WARNING

- Do not install the camera outdoors. Use weatherproof housing for outdoor.
- Choose an ideal location for the camera, since the camera unit must be protected against moisture and vibration.
- Be careful not to scratch the camera unit, especially lens glass.
- Use the camera under proper temperature. (-10°C ~ +50°C)
- Handle with care. Dropping it can cause serious damage to the camera.
- Avoid any direct sun light into the lens.
- Please use the AC/DC adaptor—DC 12V 300mA on this camera.



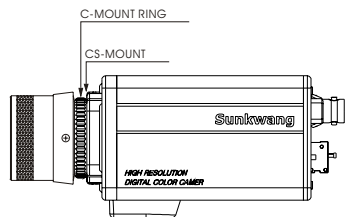
## Description of operation

- After removing the rubber cap in front of camera, fix the lens. C & CS rings are basically provided. In case of CS lens, please remove C-ring.
- Connect the video cable to the BNC connector.
- Connect the adaptor(DC 12V regulated) to the power connector. (\*Please be careful of the polarity)

## LENS CONNECTION

※ Lens is optional.

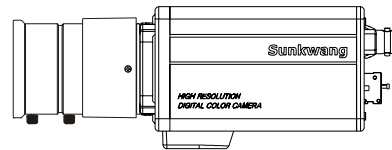
### Manual iris lens



- C-Mount lens**  
Before mount the lens, place the C-Mount ring in front of the lens.
- CS-Mount lens**  
Before mounting the lens, remove the C-Mount ring.
- Set the ELC switch to "ON"  
You should set the ELC switch to "ON" for this lens.

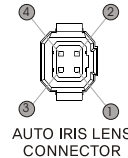
### Auto iris lens

How to fix C or CS Mount Lens is the same as that of manual iris lens.  
You should set the ELC switch to "OFF" for this lens. Connect the lens plug to the auto iris connector on the rear of the camera.  
If you need, adjust the lens level.



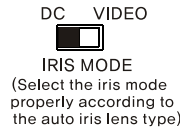
### DC-TYPE

- DAMP COIL-
- DAMP COIL+
- DRIVE COIL+
- DRIVE COIL-



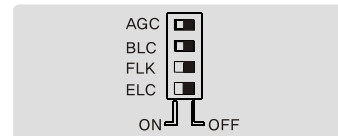
### VIDEO SIGNAL-TYPE

- DC POWER
- NC
- VIDEO SIGNAL OUTPUT
- GROUND



## Function selecting switch

The function selecting switch is set to factory default as below picture.



**AGC** : AGC High On/Off switch – "AGC HIGH" increases sensitivity of camera when light is not enough to display on the screen. But noise would be also increased.

**BLC** : BLC On/Off switch—When the object is in the center of bright background, you can get clear picture by using this function.

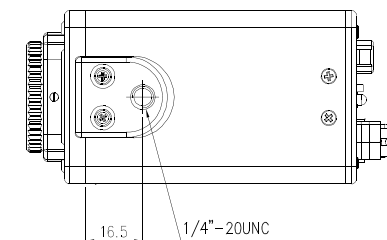
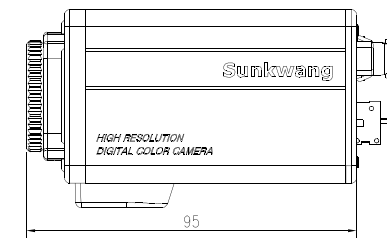
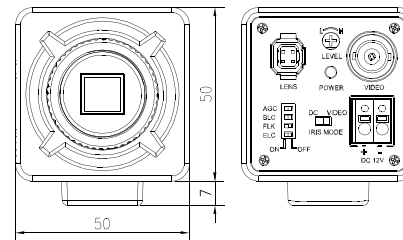
**FLK** : Flickerless On/Off switch – If there is a frequency gap between TV-type and lighting, flicker can be reduced by the flickerless function. So, you should use this function in the area not using 60Hz AC power on NTSC.  
[Electric shutter speed is fixed as 1/100 sec(NTSC)]

⚠ You should use the auto iris lens for this function

**ELC** : Automatic electric shutter On/Off switch –ELC function is selectable according to the lens you are using. Please set the "ELC" to "ON" for the manual iris lens or the "ELC" to "Off" for the auto iris lens. (When you set the "Flicker" to "OFF" electric shutter speed for "ELC On" will be changed automatically within 1/60[NTSC] or 1/50[PAL]~1/100,000 sec and electric shutter speed for "ELC Off" will be fixed as 1/60[NTSC] or 1/50[PAL] sec.)

⚠ "AGC High Off", "BLC Off", "FLK Off" and "ELC Off" are default values.

## Dimension



## Specification

Model No.	SK-B160	SK-B160X
Type	COLOR CCD CAMERA	
Image Sensor	1/3" SONY COLOR SUPER HAD CCD	1/3" SONY COLOR EXVIEW HAD CCD
Effective Pixel	768(H) X 492(V)(NTSC), 752(H) X 582(V)(PAL)	
Cell Size	6,5μm(H) X 6,25μm(V)(NTSC), 6,35μm(H) X 7,43μm(V)(PAL)	
Resolution	550 TV-Line(HQ1)	
TV Type	NTSC / PAL	
Sync. Type	Internal	
Scanning System	2:1 Interlace	
Video Output	1,0Vp-p(Sync,negative) Termination 75Ω	
Gamma	γ = 0,45	
Min. Illumination	0,5 Lux (F/1,2 Video level 40 IRE) 0,1 Lux (F/1,2 Video level 40 IRE)	0,1 Lux(F/1,2 Video level 40 IRE, AGC High) 0,05 Lux(F/1,2 Video level 40 IRE, AGC High)
S/N Ratio	45dB or more(AGC off)	
Shutter Speed	ELC On : 1/60(1/50) ~ 1/100,000sec ELC Off : 1/60(1/50)sec FLK On : 1/100(1/120)sec	
Iris Lens	ELC / DC / VIDEO	
BLC	ON / OFF	
AGC High	ON / OFF	
Flickerless	ON / OFF	
White Balance	ATW	
Anti Color rolling	Built-in	
Power supply	Regulated 12V DC	
Current Consumption	180mA(12V DC)	
Reverse Polarity Protection	Yes	
Lens	C or CS Mount	
Operation Temp.	-10°C ~ +50°C	
Preservation Temp.	-20°C ~ +60°C	
Dimension	50(W) X 50(H) X 95(L)mm	
Weight	Approx. 200g	

※ Note : All specification is subject to change without notice.

## Troubleshooting guide

Before calling service, check the following points for possible misuse.

Problem	Check point
Too dark or bright picture	Readjust the Contrast or Brightness controls on the monitor.
No Power	Check for power connection.
Poor picture quality	Clean the camera lens Readjust lens focus.
Shrinking picture	Check the condition of the Power sources.

If you can't correct the problem after going through this chart, contact a service professional for further assistance.