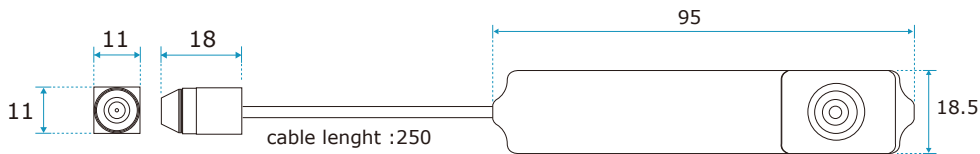


Snake camera



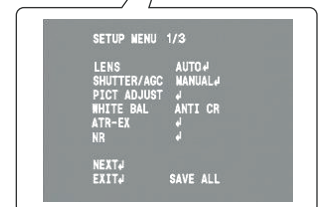
Unit : mm (± 0.5)

Feature

- Low-light Function :
AGC Slow-shutter DNR
(Noise Reduction) SENS-UP
increase minimum illumination
- Slow Shutter
- SONY EFFIO-S DSP
- SONY EXview HAD CCD II

Specification

Model	ES-1971E-3C
Pixel size	5.0um x 6.25um
Effective Image Area	5.58mm x 4.67mm
Video system	NTSC / PAL
Number of effective pixels	976x494 (NTSC) , 976x582(PAL)
Image sensor	1/4" Color Exview HAD CCD II (OSD) Camera
Resolution(TV Lines)	650 TV Lines
S/N Ratio	50 dB
Sensor scan mode	INTERLACE
Minimum illumination	0.001Lux/F2.0
Shutter Speed	1/50~1/100000 sec.
Sensitivity	2450 mV
Horizontal sync frequency	NTSC -15.734kHz, PAL - 15.625kHz
Vertical sync frequency	NTSC - 60Hz, PAL - 50Hz
Camera consumption	0.45
Video output	1Vp-p , 75ohm composite
Built - lens	3.7mm/ F2.0
Storage temperature	-30 to 60 Degree C
Working temperature	-10 to 45 Degree C
Power source	DC 6~12V
Power current	80 mA-max(DC 12V)
Dimension (mm)	11x11mm + 18.5x95x9.75mm, 25cm flexible cable between the mini lens and the slim camera Boar

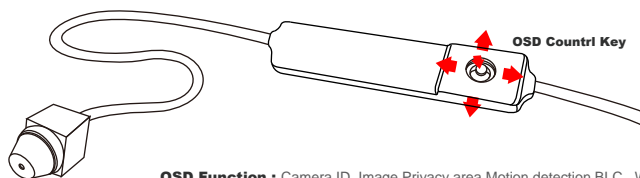


ES-1971-3C

Ordering information

MODEL	LENS	TYPE	MIC.	NOTE
ES-1971E-3C	3.7mm / F2.0	CONE	x	ES-1971EYA-3C ▲:External Mic.
ES-1971E-4C	4.3mm / F2.0	CONE	x	
ES-1971E-3F	3.7mm / F2.0	FLAT	x	
ES-1971E-4F	4.3mm / F2.0	FLAT	x	
ES-1971E-3T	3.1mm / F3.4	SLIM	x	
ES-1971E-4T	3.9mm / F3.9	SLIM	x	

1/4" Color Exview HAD CCD II (OSD) Camera



OSD Function : Camera ID, Image Privacy area Motion detection, BLC, White BAL, Shutter Speed, AGC, Negative Image, RGB, Adjust, ATR, Gamma

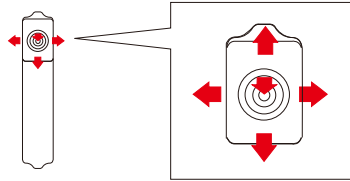
Other information

1/3" Color Exview HAD CCD II (OSD) Camera
▶ **ME-1732E**



OSD Control key

Internal osd consists of menu osd which, by pressing the enter button, displays the menu screen for setup and function toggle osd (including motion icon display) which assigns the main functions (NR, BLC, ATR, Day & Night , AGC) to the five buttons (enter, up, down, left, right) as toggles.



Using MENU

1. Using buttons (enter, down, left, right) to choose items and set it.
2. Press the MENU/ENTER button about 3 sec. to start MENU. The menu will display on the monitor.



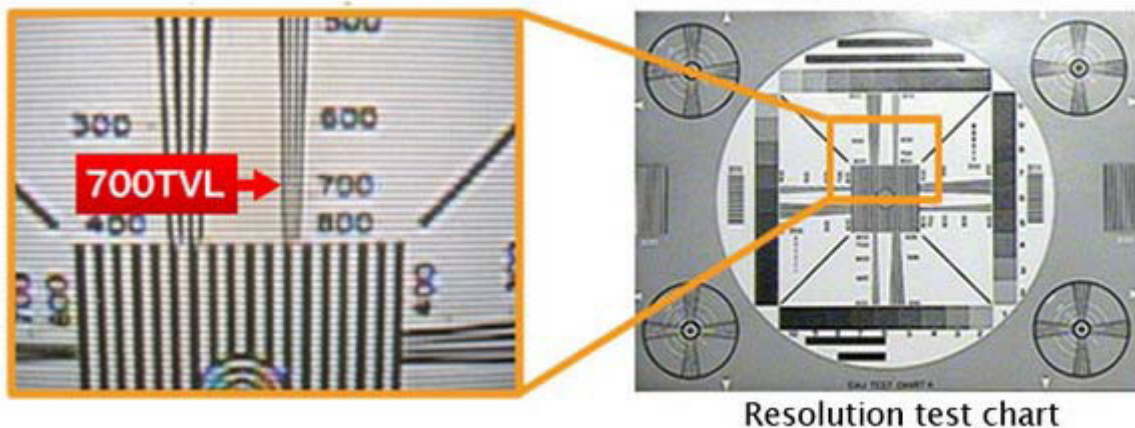
Function	Option	Description
<u>LENS</u>	MANUAL AUTO	This function is used to set the mechanical iris of the lens.
<u>SHUTTER/AGC</u>	AUTO MANUAL	This function is used to set AUTO or MANUAL
<u>PICT ADJUST</u>	MIRROR, CONTRAST, SHARPNESS, HUE, R-GAIN & B-GAIN.	This function is used to set the MIRROR, CONTRAST, SHARPNESS, HUE, R-GAIN & B-GAIN.
<u>WHITE BAL</u>	ANTI CR, MANUAL, PUSH LOCK, ATW, PUSH, USER1 & USER2.	This function is used to set the ANTI CR, MANUAL, PUSH LOCK, ATW, PUSH, USER1 & USER2.
<u>ATR-EX</u>	MODE CONTRAST	This function is used to set the NORMAL & LIGHT in the MODE, and LOW, MIDLOW, MID, MIDHIGH & HIGH in the contrast
<u>NR function</u>	←	In sub menu, you can select LEVEL mode to be OFF, LOW, MIDLOW, MIN, MIDHIGH & HIGH.
<u>HLC/BLC</u>		In sub menu, you can select HLC mode to be OFF, ON & AUTO. The CLIP LEVEL can be adjusted within the range 0~255 The SCALE can be adjusted within the range 0~15 When you select BLC mode to be OFF & ON.
<u>DAY/NIGHT</u>	EXT ← AUTO ←	This menu sets DAY/NIGHT function that switches camera working on the daytime or night-time conditions. You can select EXT & AUTO.
<u>EZOOM</u>	←	In sub menu, you can set the MAG to be 0~255, and you also can press the LEFT/RIGHT button to adjust the image to PAN / TILT
<u>DIS (Digital Image Stabilizer)</u>	OFF ON	Suppress shaking function. When you selected the DIS function. You can select OFF & ON.
<u>PRIVACY</u>	←	This function is used to set the AREA SEL, MODE, POSITION, COLOR, TRANSP, MOSAIC
<u>MOTION DET</u>	OFF ON ←	This function is used to set the DETECT SENSE, MONITOR AREA
<u>CAMERA ID</u>		Sets the camera title to appear on display with up to 52 characters.
<u>LANGUAGE</u>		ENGLISH, JAPAN, SIMPLIFIED CHINESE, TRADITIONAL CHINESE
<u>CAMERA RESET</u>		To reset to the default setting.
<u>SAVE ALL & EXIT</u>		When you select SAVE ALL & EXIT to quit the menu after changing the setting, the system will be updated with the settings.

Advanced Features

Hight color Reproduction
More excellent color reproduction
Wide range ATW [1,800 K to 10,500 K]



Hight Resolution
Confirmed maximum resolution to achieve the **700TVL**. !!



Present OSD Menu & Exposure Control for IR Light
OSD function provides preset menus in 8 languages.(EN, FR, DE, ES, POR, CN, RU, JP)



Snake Camera

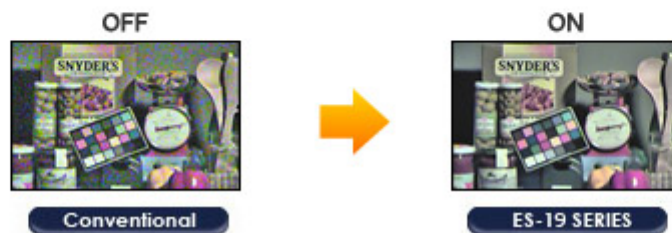
Noise Reduction-OSD FUNCTION

Effio-S" come with two noise reduction (NR) functions, one is space-based (2D-NR) and the time-based (3D-NR).

2D-NR



2D+3D-NR



ATR (Adaptive Tone Reproduction)-OSD FUNCTION

Gradation compensation to improve image contrast
Improvement of loss of dark detail and overexposure area



Low-light Function & Slow Shutter

Low-light Function :AGC Slow-shutter DNR(Noise Reduction)SENS-UP increase minimum il



Conventional



ES-19 SERIES