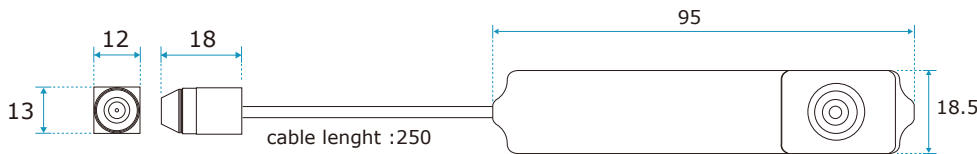


**Board Type**



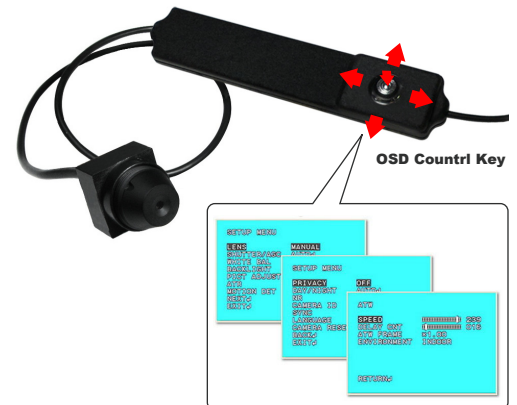
Unit : mm (± 0.5)

**Feature**

- OSD function
- Backlight compensation.
- Superb picture quality!
- High Performance.
- SONY EFFIO-E DSP
- SONY EXview HAD CCD II

**Specification**

Model	ME-1771E-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	1/3" 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)	12x13mm + 18.5x95x9.75mm, 25cm flexible cable between the mini lens and the slim camera Boar

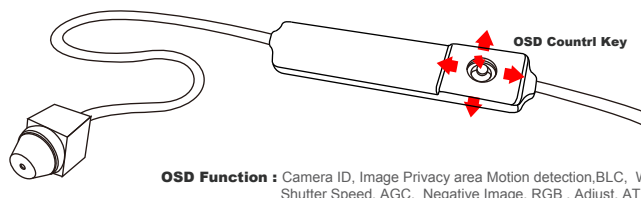


ME-1771-3C

**Ordering information**

MODEL	LENS	TYPE	MIC.	NOTE
ME-1771EY-3C	3.7mm / F2.0 Day & Night Lens	CONE	x	<b>NOTE</b> ME-1771EY A-3C Y: Day & night Lens ME-1771EY A-3C A: External Mic.
ME-1771EY-4C	4.3mm / F2.0 Day & Night Lens	CONE	x	
ME-1771EY-3F	3.7mm / F2.0 Day & Night Lens	FLAT	x	
ME-1771EY-4F	4.3mm / F2.0 Day & Night Lens	FLAT	x	
ME-1771EY-3T	3.1mm / F3.4 Day & Night Lens	SLIM	x	
ME-1771EY-4T	3.9mm / F3.9 Day & Night Lens	SLIM	x	

**1/3" Color Exview HAD CCD II (OSD) Camera**



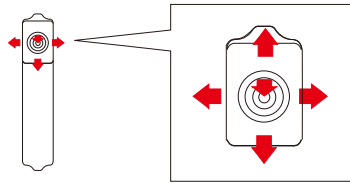
**Other information**

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



## OSD Control key

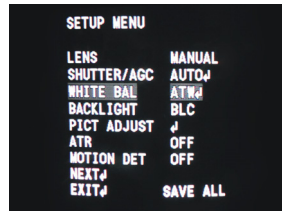
Internal osd consists of menu osd which, by pressing the enter button, displays the menu screen for setup and function toggle osd ( including motion icon display ) which assigns the main functions ( NR, BLC, ATR, Day & Night , AGC) to the four buttons (enter,up,down, left, right) as toggles.



## Using MENU

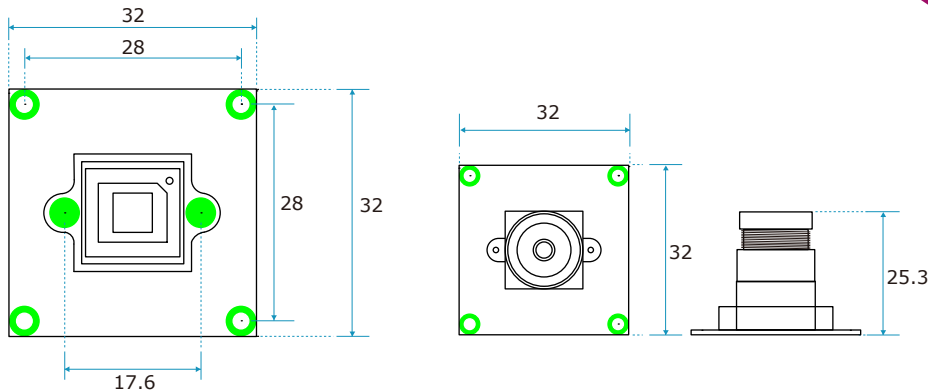
1. Using buttons (enter, down, left, right) to choose items and set it.

2. The internal OSD menu display is hidden by performing the "EXIT" operation on the menu screen. Similarly, by setting the timeout time (in seconds) using the MENU parameter, it can be hidden automatically when no operations have been undertaken for the specified period of time.



Function	Option	Description
<u>LENS</u>	MANUAL DC ←	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>WHITE BAL</u>	ATW, PUSH, USER1, USER2, ANTI CR, MANUAL, PUSH LOCK	This function is used to set the white balance operation mode.
<u>BACKLIGHT</u>	OFF, BLC, HLC	This function is used to set the backlight compensation operation.
<u>PICT ADJUST</u>	←	This function is used to set the image adjustment items.
<u>ATR</u>	OFF ON ←	This function is used to set the ATR operation
<u>MOTION DET</u>	OFF ON ←	This function is used to set the motion detection operation.
<u>PRIVACY</u>	OFF ON ←	This function is used to set up to eight privacy masks. When monitoring frames are used for motion detection, the maximum number of masks which can be used is four.
<u>DAY/NIGHT</u>	AUTO ← COLOR B/W ←	This function is used to set the Day/Night function.
<u>NR function</u>	←	This function is used to set the noise reduction.
<u>CAMERA ID</u>	OFF ON ←	This function is used to set the camera ID
<u>SYNC</u>	INT LL ←	This function is used to display the current synchronization mode. When the line lock mode is being used as the synchronization mode, it is possible to adjust the phase in the vertical direction. The synchronization mode cannot be switched using the internal OSD menu.
<u>LANGUAGE</u>	ENGLISH 繁体 DEUTSCH FRANCAIS РУССКИЙ PORTUGUES ESPANOL	This function is used to select the language in which to display the internal OSD menu.
<u>CAMERA RESET</u>	NONE	This function initializes all the internal OSD menu settings together
<u>SAVE ALL</u>	←	This function is used to save the various settings of the internal OSD menu. SAVE ALL is always displayed on the bottom line of the top menu. Its display position cannot be changed.

**Board Type**



Unit : mm (± 0.5)

**Feature**

- OSD function
- Backlight compensation.
- Superb picture quality!
- High Performance.
- SONY EFFIO-E DSP
- SONY EXview HAD CCD II

**Specification**

Model	ME-1732GE
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	1/3" 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	3.6mm/ F2.0
Storage temperature	-30 to 60 Degree C
Working temperature	-10 to 45 Degree C
Power source	DC 5~12V
Power current	80 mA-max(DC 12V)
Dimension (mm)	32 x 32mm



ME-1732GE

**Ordering information**

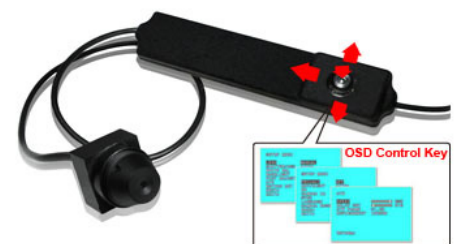
MODEL	LENS	TYPE	MIC.
ME-1732E-3C	3.7mm / F2.0	CONE	x
ME-1732E-4C	4.3mm / F2.0	CONE	x
ME-1732E-3F	3.7mm / F2.0	FLAT	x
ME-1732E-4F	4.3mm / F2.0	FLAT	x
ME-1732E-3T	3.1mm / F3.4	SLIM	x
ME-1732E-4T	3.9mm / F3.9	SLIM	x
ME-1732GE	3.7mm / F2.0	G-type	x

**NOTE**

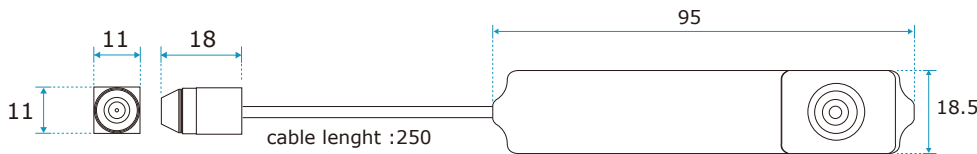
ME-1732EA **E : OSD Function** : Camera ID, Image Privacy area Motion detection,BLC, White BAL, Shutter Speed, AGC, Negative Image, RGB , Adjust, H Mirror, Gamma ....

**Other information**

**1/3" Color Exview HAD CCD II (OSD) Camera**  
▶ **ME-1771E**



**Snake camera**



Unit : mm (± 0.5)

**Feature**

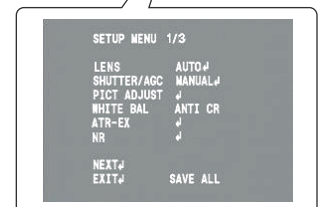
- Low-light Function :  
AGC Slow-shutter DNR  
(Noise Reduction) SENS-UP  
increase minimum illumination
- Slow Shutter
- SONY EFFIO-S DSP
- SONY EXview HAD CCD II

**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



OSD Countrl Key

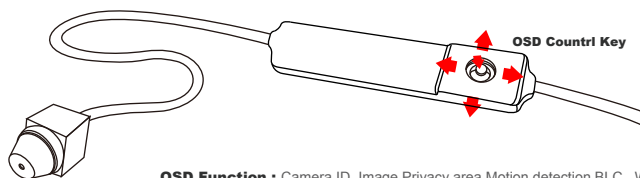


ES-1971-3C

**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 ....

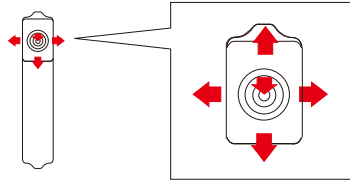
**Other information**

**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.



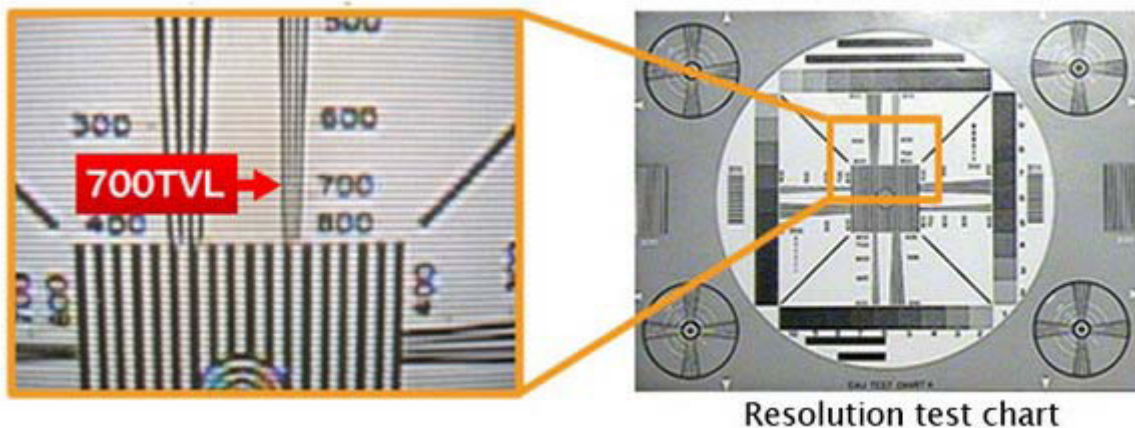
Function	Option	Description
<u>LENS</u>	MANUAL AUTO	This function is used to set the mechanical iris of the lens.
<u>SHUTTER/AGC</u>	AUTO MANUAL	This function is used to set AUTO or MANUAL
<u>PICT ADJUST</u>	MIRROR, CONTRAST, SHARPNESS, HUE, R-GAIN& B-GAIN.	This function is used to set the MIRROR, CONTRAST, 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 &amp; EXIT</u>		When you select SAVE ALL & EXIT to quit the menu after changing the setting, the system will be update with the settings.

## Advanced Features

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



- ▶ High Resolution
- ▶ Confirmed maximum resolution to achieve **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**

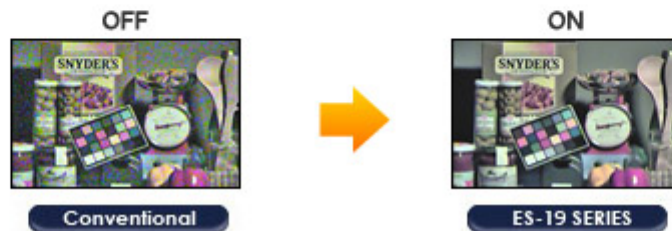
▶ Noise Reduction-OSD FUNCTION

▶ 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