SalrayWorks

wideSHOT UltraLatency

Full-HD (3G/HD-SDI) 2.16MP Mini-Broadcast POV Camera with 2.3mm 2MP Lens

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Precautions

⚠️ Do not use the camera if fumes, smoke or a strange odor is emitted from the unit, or if it seems to not function correctly. Disconnect the power source immediately and consult your supplier.

Always follow the instructions in the installation guide when applying power. Fire and equipment damage can occur if power is applied incorrectly. For the correct power supply, refer to the specification sheet.

Do not install or operate in small, unventilated areas. Heat buildup can significantly reduce the performance and operating life of the product and may cause a fire.

To prevent damage, do not drop the camera or subject it to strong shock or vibration.

If installed close to a TV, radio transmitter, magnet, electric motor transformer or audio speakers the magnetic field generated may interfere with or distort the image.

Whether or not the camera is used outdoors, never point it toward the sun. Use caution when operating the camera in the vicinity of spot lights or other bright lights and light reflecting objects.

Do not use the camera in extreme environments where high temperatures or high humidity exists. Use the camera under conditions where temperatures are between 14°F ~ 122°F (−10°C ~ 50°C), and humidity is below 90%.
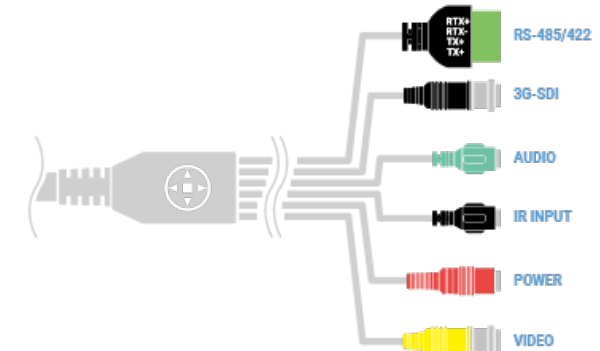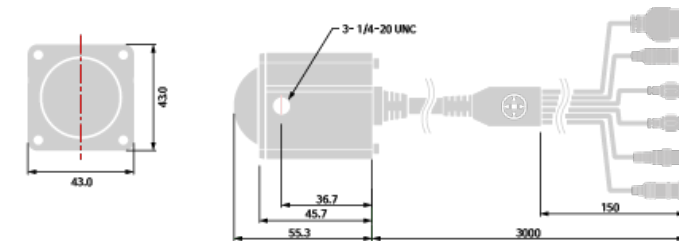
Features

· 2.16 Megapixel 1/2.8" Sony Exmor R CMOS Sensor

· 4.3mm Megapixel M12 Prime Lens installed

· Dual Frame Mode Support

  50/60 : 1080p60/50/30/25, 1080i60/50,720p60/50/30/25fps

  59.94 : 1080p59.94/29.97, 1080i59.94, 720p59.94/29.97fps

· 3G/HD-SDI (BNC) CABLE built into rear panel

· Audio Mic Stereo (TRS) input embedding

· OSD Menu Joystick, RS-422/485 connectable (VISCA)

· Weatherproof : IP67

Specification

Sensor	Image Sensor	1/2.8" Progressive Sony Exmor R CMOS (Approx. 2.16 mega)
	Scanning System	16:9 Progressive
	Sync. System	Internal
	Effective Pixel	1945 (H) X 1097 (V) approx.. 2.13M pixels
	Min. Illumination	Color : 0.1 lx (1/30 sec), B&W : 0.01 lx (1/30 sec)
Optics	Lens	4.3mm [102.2 ˚ (D) X 84.3 ˚ (H) X 44.0 ˚ (V)]
Functions	EXPOSURE	BRIGHTNESS / SHUTTER / AGC
	BACKLIGHT	HLC/BLC/WDR
	DAY & NIGHT	AUTO / COLOR / B&W / EXTERN
	WHITE BALANCE	AUTO (3,000˚K~8,000˚K) / AUTOext (1,900˚K~11,000˚K) / PRESET / MANUAL
	Electronic Shutter	NTSC: 1/30~1/30000, PAL: 1/25~1/30000, SENS-UP (~X64)
	Functions	Privacy Mask, Image Mirror, 3DNR, GAMMA Control, Lens Shading, Flickerless, Sharpness, Defog Intelligent Motion Detection
Video output	SDI (BNC)	SMPTE 292M (1.485Gbps): 1080p@25/30, 1080i@50/60, 720p@50/60, 720p@25/30 SMPTE 424M (2.97Gbps) : 1080p@50/60
Audio Input	MIC Input	Mic Level (1Vrms), 2.5V Mic bias Audio On / Off
Cotrol	RS422/485 Remote Control	VISCA (2400~115200bps)
General	Operation Temperature	−10℃ ~ 50℃
	Power Input	12VDC (7VDC to 15VDC)
	Power consumption	Max 3.6W
	Dimensions	43 (W) x 43 (H) x 59.1 (D) mm
	Net Weight	Approx. 380g

Dimensions

wideSHOT Menu Tree

SETUP	1st SUB MENU	2nd SUB MENU	DESCRIPTION
<Focus/Zoom>	Digital Zoom (Not supported for low latency models)	1.0X ~ 16.0X	Enlarge digitally the video output up to 16X.
	Edge Det.	On/Off	Edge detection allows you to easily adjust focus.
<White Balance>	Mode	Auto/ATW/One Push/Manual	**AUTO** : Color temperature is automatically adjusted to 3,000°K ~ 8,000°K **ATW** : Continuously adjusts camera color balance in accordance with any change in color temperature. Compensates for color temperature changes within the range of 1,900K to 11,000K. **One Push** : Color temperature will be manually adjusted by pushing the OSD button. Place the white paper in front of the camera when OSD button is pressed to obtain the optimum result. **Manual** : Select color temperature from 3000°K, 5000°K or 8000°K.
<AE Mode>	Iris (Only supported for CVS/CVH models)	ELC/ALC	Change the Iris Function.
	Shutter Speed	Auto/Manual/Flicker	**Auto** : Shutter controls exposure automatically. Shutter control has the exposure control priority. **Manual** : Shutter speed is fixed. The exposure control priority is given to other resources. Use this function when you experience picture flicker, this happens when there is a conflict with the installed lighting frequency.
	Brightness	0 ~ 20	Adjust the screen brightness. The bright control function adjusts gain, to keep a brightness level.
	Gain Limit	0 ~ 10	A function which controls the amplification/gain process automatically if the illumination falls under the usable level. Camera raises up gain to selected gain limit when dark conditions.
	Image Range	Full/Comp/User	Change video image range.
<Picture>	Slow Shutter (Not supported for low latency models)	OFF, X2~64	When luminance condition is low, SENS-UP can adjust the picture quality by maintaining the light level. Minimum slow shutter limit is down to x64.
	Backlight	Off/HLC/BLC/WDR* (*Not supported for low latency models)	**HLC** : Highlight the bright area with a masking box with a selected color. Adjust the masking level (0~20). **BLC** : Enable a back light compensation feature. **WDR** : Enable user to view both object and background more clearly when background is too bright. (LOW, MIDDLE, HIGH).
	Image Stablizer (Not supported for low latency models)	On/Off	**Range** This function will reduce image blurriness due to vibrations caused by hand shake. The image will be digitally zoomed in to compensate the shifted pixels. Set the digital zoom level for image stabilizing. (Max. 30% : x1.4 Digital Zoom) **FILTER** Select the level of correction hold filter for the worst case of image. HIGH: Less image correction. Low: More image correction. **AUTO** OFF: Disable the auto centering function. FULL: The camera will correct the blurriness due to vibrations caused by both hand shake. HALF: The camera will correct the blurriness due to vibrations caused by hand shake.
	Digital WDR	Off/Low/Middle/High	Brightness correction of the dark image area.
	Color Space	HD-CbCr/ SD-CbCr/YUV	Change video color space.
	<Day/Night>	Auto/Color/Night	**AUTO** : Auto mode allows to switch between COLOR and B&W automatically depending on day and night. **COLOR** : The camera keeps color mode constantly. **Night** : The camera keeps black/white mode constantly.
<Image>	Image Flip	On/Off	Video output is rotated vertically.
	Image Mirror	On/Off	Video output is rotated horizontally.
	Defog Mode	On/Off	**Auto** : This feature will help increase visibility in extreme weather conditions, such as fog, rain or in a very strong luminous intensity. **Manual** : Set the level of defogging function (LOW, MIDDLE, HIGH).
	Color Bar	On/Off	Change the color bar on or off.
	Noise Reduction	Off/Low/Middle/High	This feature will reduce the video noise at low ambient light.
	Gamma	0.45/0.55/0.65/0.75	This feature will adjust video output brightness (0.45 ~ 0.75).
	Aperture	0 ~ 10	Adjust the sharpness of the image. As you increase this value, the picture outline becomes stronger and clearer.
	Shading	On/Off	This feature will correct the inconsistent brightness level in the image.
<Color>	Saturation	0 ~ 20	0~20 Adjust the color level value for a fine color tune.
	Color Matrix	RY Gain Neg./RY Gain Pos./RY Hue Neg./RY Hue Pos./ BY Gain Neg./BY Gain Pos./BY Hue Neg./BY Hue Pos.	Change the value of Color Hue/ Gain.
<Motion/Audio>	Motion	On/Off	This feature will observe the object movement by motion zone and sensitivity that are pre-set with sub menu.
	<Audio>	Off/Line/MIC	Change the Audio input.
<Display>	Cam Title	Off/Right up/Left up	The camera title can be entered and it will appear over the video output.
<System Info.>	<Comunication>	Cam ID/Baudrate	**Cam ID** : Select the camera ID number for RS-422/485 communication. **Baudrate** : Set the baud rate of RS-485 communication (2400, 4800, 9600, 19200, 38400, 57600, 115200).
	<Output>	Frame Rate/FREQ./SDI Mode	**Frame rate** : Change video output format. **FERQ** : Change video output frequency. **SDI Mode** : change On or Off. When the frame rate changes, it changes automatically.
	<Addition Info.>	Factory Default	Reset the camera settings to the factory default.