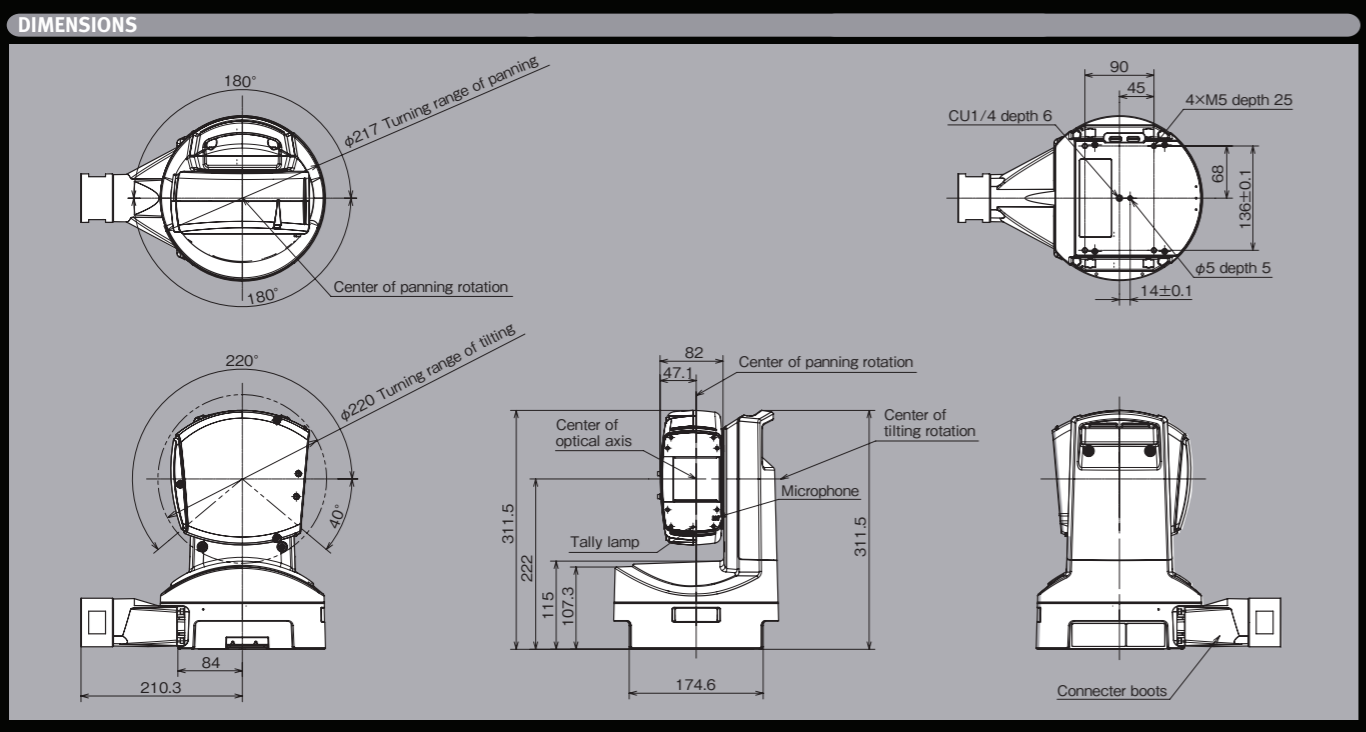


# Canon

# EVERCAM XU-81 EVERCAM XU-81W

SPECIFICATIONS	
<b>Camera &amp; Lens</b>	
Image Sensor	1/3 CMOS
Focal Length / F-No.	f=4.7-94mm / F1.6-3.5
Minimum Object Distance	1m (at Tele End)
Angle of View	W59.4° - T3.0° (1920x1080)
Zoom Ratio	20x
Digital Zoom	12x
Focusing System	AUTO / MANUAL / INF
Shutter Speed	2sec-1/10,000sec
Gain	AUTO / MANU (0~+42dB)
White Balance	AUTO / OUTDOOR / INDOOR / MANU / ATW
ND Filter	OFF / 1/32
Mounting Options	Upright / Inverted
AE Control	AUTO / MANU / NIGHT / Shutter priority / Aperture priority
ICR	ON/OFF
Minimum Illumination	0.6 lux (F1.6, 1/60sec, Full-Gain)
<b>Pan-Tilt</b>	
Operational Conditions	Indoors / Outdoors
Operational Angle	Pan: ±180° Tilt: +220°~-40°
Operating Speed	Pan/Tilt: 0.3~40°/sec (normal speed mode) Pan/Tilt: 0.3~60°/sec (high speed mode)
Preset Position	128
Stationary accuracy	±10' or less
Video Output	HD: BNC (HD-SDI) SD: BNC (Composite Monitor)
GENLOCK Input	BNC (BB Sync/HD3value Sync)
Picture Flip Function	Flip: ON/OFF
Control Interface	D-sub9 (RS-232) x RJ-45 (RS-422) x 1
Operating Temperature	Ambient -15~40°C / ~90% (non-condensing)
Control Protocol	NU Protocol
Communication Speed	9,600bps
Microphone	Waterproof Microphone: lower part of the camera / 0dBm / 600 Ω unbalanced output (with limiter)
Noise	NC30 (40°/s), NC45 (60°/s) (when Wiper, ND Filter, and IRC Filter are not in operation)
Power Source	DC12V±10%
Power Consumption	20W
Size (W×H×D)	217×311×217[mm] (without projection)
Weight	6.6kg (without ND Filter and Wiper)
HD-SDI Format	1080/59.94i   1080/50i   720/59.94p   720/50p
SD Format	NTSC/PAL (linked with the HD-SDI output)
GENLOCK	Internal/External, Auto Switching
Waterproof/Dustproof Rating	IP55
Wind-Velocity-Resistance	Normal Operation: ~15m/s Operation Possible: ~30m/s Non Destruction: ~60m/s
Models	XU-81 / XU-81W* (*XU-81W is the model with servo ND filter and wiper)
Optional Outdoor Installation	Washer



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# Canon



**INNOVATION**  
In TV Optics Since 1958

Toward 100 years anniversary

# EVERCAM XU-81 EVERCAM XU-81W

ENGINEERED TO LAST



The global trend in recent years has been for video production to be increasingly made in HD (High Definition), and users have become more and more vocal in their demands for HD images, not only from broadcast stations, but also in various other fields where Remote Control Pan-Tilt Cameras are used such as conference halls, educational institutions, churches and surveillance locations. In order to satisfy these demands, Canon has combined its highly advanced technology, developed over many years, to successfully engineer the EVERCAM XU-81 and XU-81W.

The XU-81 and XU-81W feature a 1/3" CMOS imaging sensor with 2.1 megapixels and an optical 20x zoom lens (along with the 12x digital zoom) that supports AF (Auto Focus). They achieve astounding performance that enables them to be used in high end production applications. Along with the aluminum die-cast body, they also feature a dust-proof and water-proof construction, and are small and lightweight enough to be carried around. These features allow these multi-use products, with their excellent durability, to be installed in virtually any location, whether indoors or outdoors.

Canon is firmly committed to researching and developing cutting-edge technological innovations in an effort to deliver innovative products capable of reproducing some of the world's most beautiful images.



Indoor Event Broadcasting



Weather POV



Video Conference



Outdoor Event Broadcasting



Traffic POV



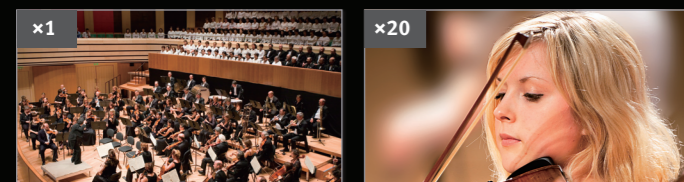
House of Worship

## PRODUCT FEATURES

### High Quality HDTV/SDTV Video Images

The XU-81 and XU-81W have a 1/3" CMOS imaging sensor with 2.1 megapixels. Utilizing an optical 20x HD zoom lens (along with the 12x digital zoom), it captures exceptional, high-quality images in full-HDTV format.

Dynamic range compensation allows for shooting in environments with a high contrast of light and shade (such as a building lobby on a sunny day) by automatically correcting the contrast of the video according to the range of scene illumination.



Simulated image

### Durability, Water-proof and Dust-proof for Indoor/Outdoor Applications

The XU-81 and XU-81W are designed with durability and air-tightness, which allow it to be used both indoors and outdoors. These models satisfy the IP55 dust-proof and water-proof rating, allowing them to be permanently installed in indoor locations with high levels of dust or in outdoor locations exposed to the wind, rain and other harsh environments. Aluminum die-cast is used for the body to achieve both lightness and durability.

For outdoor applications the XU-81W model, which includes a servo ND filter and wiper unit, is available. In addition, the XU-81W can be equipped with an optional washer.



XU-81W

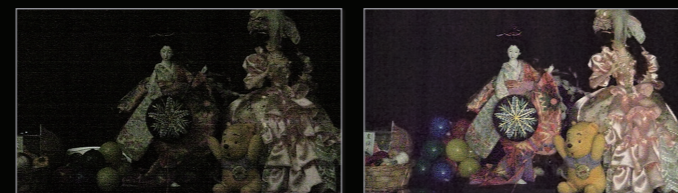
### Low-light Capability/Super Sensitivity Mode

The XU-81 and XU-81W have high sensitivity at the lowest subject brightness of 0.6 lux\*, and its super sensitivity mode even enables shooting in darker locations or at night time.

(\* F1.6, 1/60, Full-gain)

When shooting under low-light conditions, the XU-81/81W can acquire extra brightness by using the slow-shutter function (frame accumulation).

The black & white mode without the IR cut filter will also support shooting in near-darkness.



Previous model

XU-81/81W

Comparison between XU-81/81W and a previous model under the same 3 lux brightness conditions. (F1.6, 1/60, Full-gain)

### Optimized Design for Broadcast Applications

The XU-81 and XU-81W incorporate high operability optimized for broadcast applications. By pressing a single pre-set button on operation panel (provided optionally), the camera head pans and tilts very smoothly while simultaneously zooming, allowing for on-air movements similar to manually-operated cameras. Also, the XU-81/81W utilizes HD-SDI output, the standard in the broadcast market, which enables it to acquire beautiful, important images from a distance of up to 100m.

### Fast, Quiet, and Precise Pan & Tilt Movements

The XU-81 and XU-81W are exceptional PTZ cameras that combine smooth, fast, and highly precise movement. In normal mode, operational movement has a noise rating of NC<30, making it extremely suitable for quiet indoor environments. In high speed mode, the movements of the pan-tilt mechanism are accelerated by 50%, which is valuable in circumstances where higher speed is required.

### Upright/Inverted Mounting Option

The XU-81 and XU-81W can be mounted upright or inverted (ceiling mount). In either position, the picture image will automatically flip when the tilt angle reaches 90°.



### Compact Size and Weight

The XU-81 and XU-81W include a handle for convenient portability, and weigh only 14.5 lbs/6.6 kg, making setup almost effortless.

### Locally Switchable Output/Control

Users have the ability to select either the 1080i or 720p HD output to match their existing systems. Additionally, control can be toggled between RS-232 and RS-422, making the XU-81 and XU-81W extremely adaptable to new and existing multi-camera environments.

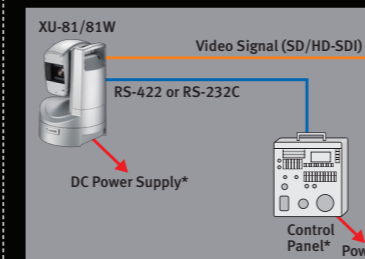
### Interface



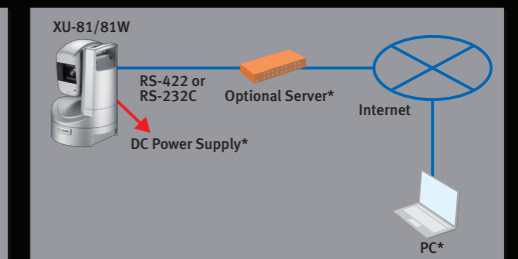
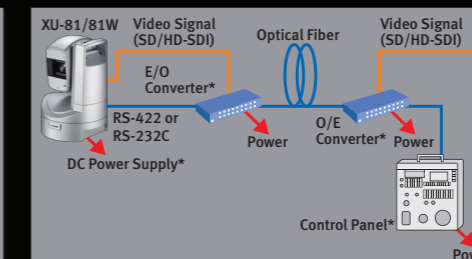
- |               |                |
|---------------|----------------|
| 1 MODE SWITCH | 6 AUDIO OUTPUT |
| 2 POWER LED   | 7 VBS OUTPUT   |
| 3 DC IN       | 8 SYNC INPUT   |
| 4 RS-232C     | 9 HD-SDI       |
| 5 AUX1-6      | 10 RS-422      |

### SYSTEM CONFIGURATION EXAMPLES

#### For Short Distance Control



#### For Long Distance Control



\*Optional items from third party vendors.