Camera & Lens

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° (1920×1080)

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)

Pan-Tilt

SPECIFICATIONS

DIMENSIONS
EVERCAM XU-81

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) × RJ-45 (RS-422) × 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 / 600Ω 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-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

1-800-OK-CANON
pro.usa.canon.com
Canon U.S.A., Inc.
One Canon Park
Melville, NY 11747 U.S.A.

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PRINTED IN U.S.A.
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.

**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.

**Low-light Capability/Super Sensitivity Mode**

The XU-81 and XU-81W have high sensitivity at the lowest subject brightness of 0.6 lx*, 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/W 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.

**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 tightness and durability.

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

**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 the 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/W 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 are designed 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**

- RS-232C
- DC Power Supply
- Power
- Optional Server
- DC Power Supply
- Internet

 SYSTEM CONFIGURATION EXAMPLES

**For Short Distance Control**

- Video Signal (SD/HD-SDI)
- DC Power Supply*
- Optional Server*
- Control Panel*

**For Long Distance Control**

- Video Signal (SD/HD-SDI)
- DC Power Supply*
- RS-232 or RS-422**
- O/E Converter**

*Optional items from third party vendors.