

## EVI-HD1

The High-Definition, All-in-One, Pan/Tilt/Zoom (PTZ) EVI-HD1 Color Video Camera Brings Scenes to Life



### Overview

Sony, a leader in developing PTZ cameras and a long standing leader in HD technology, is combining its strengths with the introduction of its first high-definition PTZ camera. Joining the popular EVI family, this unique camera allows you to take your first step towards HD migration with the flexibility to output analog or digital video signals – from standard definition (SD) to full high definition (HD). Conference rooms everywhere are making the transition to HD, and the Sony EVI-HD1 makes this change effortless.

The EVI-HD1 HD Color Video Camera employs a 1/3-type HD CMOS image sensor boasting two million effective pixels and can be used in combination with any number of codecs and other systems to produce high-quality, high-resolution images. The EVI-HD1 inherits many outstanding features from the popular EVI-D100 PTZ camera and couples these with superb HD picture quality.

With its wide field of view, built-in 10x optical zoom lens, 16:9 aspect ratio image and high-speed, quiet pan/tilt operation, the EVI-HD1 can cover subjects across wide areas, with minimal disturbance.

Combining convenient features such as auto focus/auto exposure, 6-position presets, and external/remote control, the

EVI-HD1 camera is ideal for applications such as videoconferencing, distance learning, and corporate training.

## Features

### **Superb Picture Quality – 2-Megapixel HD CMOS Sensor**

The EVI-HD1 incorporates a 1/3-type HD CMOS sensor (a total of two million effective pixels) providing outstanding picture quality and high resolution images.

### **Wide-Range, Quiet, and Quick Pan/Tilt Mechanism**

By adopting a newly developed direct drive motor mechanism, the EVI-HD1 camera is extremely quiet, moves smoothly and quickly to designated positions and can cover a wide shooting range.

Max. pan speed: 300 degrees/s (range  $\pm$  100 degrees)

Max. tilt speed: 125 degrees/s (range  $\pm$  25 degrees)

### **Multi-Format Video Outputs from NTSC/PAL to Full HD**

The EVI-HD1 provides full high-definition video in 1080i format. And for applications that require different formats, the EVI-HD1 offers a full range signals from SD to HD.

### **High-Quality Image Transmission via HD-SDI**

The EVI-HD1 comes equipped with an HD-SDI interface terminal (SMPTE 292M compliant) that allows for long-distance transmission of high-quality HD images without degrading the picture quality.

### **RS-232C Remote Control (VISCA protocol)**

All camera settings and pan/tilt/zoom control functions can be performed remotely at high communication speeds via the RS-232C interface (VISCATM protocol).

### **40x Zoom Ratio (10x Optical + 4x Digital)**

The fast and stable auto-focus zoom lens on the EVI-HD1 has an impressive 40x zoom ratio.

### **Wide-Viewing Angle (70 degrees)**

The EVI-HD1 incorporates a newly developed wide-angle lens for wide field-of-view image capture, a plus for small to medium-sized conference rooms.

### **Six-Position Presets**

The EVI-HD1 can store up to six preset values for pan/tilt/zoom, focus position, exposure mode, and white balance mode and can even retain these settings when the camera is shut off.

### **Multi-Function IR Remote Commander Unit**

The easy-to-use supplied Remote Commander™ unit for the EVI-HD1 is useful for basic settings and pan/tilt/zoom camera control.

## Specifications

### Camera

Image Sensor

1/3-type CMOS

Image Sensor

(Number of Effective  
Pixels)

Approx. 2M pixels (16:9)

Signal System

NTSC, PAL

Signal System

720p/59.94, 720p/50, 720p/29.97,  
720p/25

1080i/59.94, 1080i/50, 1080p/29.97,  
1080p/25,

|                                 |  |
|---------------------------------|--|
| Minimum Illumination<br>(50IRE) | 15lx (F1.8)  |
| S/N Ratio                       | 50 dB  |
| Gain                            | Auto/Manual (-3 dB to +18 dB)                            |
| Shutter Speed                   | 1/2 to 1/10,000 sec.                                     |
| Exposure Control                | Auto, Manual, Priority AE, Exposure compensation, Blight |
| White Balance                   | Auto, Indoor, Outdoor, One-push auto, Manual             |
| Optical Zoom                    | 10x  |
| Digital Zoom                    | 4x   |
| Focusing System                 | Auto/Manual  |
| Horizontal Viewing Angle        | 70 degrees (wide) to 8 degrees (tele)                    |
| Focal Length                    | F1.8 to F2.1<br>f=-3.4mm (wide) to 33.9mm (tele)         |
| Minimum Object Distance         | 100mm (wide)   |
| Pan/Tilt Angle                  | Pan: $\pm 100^\circ$ , Tilt: $\pm 25^\circ$              |
| Pan/Tilt Speed (Max.)           | Pan: 300°/sec, Tilt: 125°/sec                            |

|                 |   |
|-----------------|---|
| Preset Position | 6 |
|-----------------|---|

## Camera Features

|          |    |
|----------|----|
| Auto ICR | No |
|----------|----|

|        |    |
|--------|----|
| Wide-D | No |
|--------|----|

|                     |    |
|---------------------|----|
| Image Stabilization | No |
|---------------------|----|

|            |    |
|------------|----|
| Image Flip | No |
|------------|----|

|                |    |
|----------------|----|
| Auto Power Off | No |
|----------------|----|

|                 |    |
|-----------------|----|
| Night Power Off | No |
|-----------------|----|

## Interface

|                 |                                    |
|-----------------|------------------------------------|
| Hd Video Output | HD-SDI, Analog Component (Y/Pb/Pr) |
|-----------------|------------------------------------|

|                 |          |
|-----------------|----------|
| Sd Video Output | VBS, Y/C |
|-----------------|----------|

|                          |                          |
|--------------------------|--------------------------|
| Camera Control Interface | RS-232C (8-pin mini DIN) |
|--------------------------|--------------------------|

|              |     |
|--------------|-----|
| Sync. System | INT |
|--------------|-----|

## General

|                    |   |
|--------------------|---|
| Power Requirements | DC 12V (10.8 to 13.0V DC)<br>Max. 30 W (at DC 12 V) |
|--------------------|---|

|                                 |   |
|---------------------------------|---|
| Operating Temperature           | 32°F to 104°F<br>0°C to 40°C  |
| Storage Temperature             | -4°F to +140°F<br>-20°C to +60°C  |
| Dimensions (W x H x D)<br>*[1]  | 259 x 150 x 169 mm<br>10 1/4 x 6 x 6 3/4 inches   |
| Mass                            | 4 lb 7 oz<br>2 kg   |
| Body Color                      | Gray  |
| Wide Conversion Lens Attachable | No  |
| Mountable Angle                 | $\pm 15^\circ$  |
| Ceiling Mount                   | No  |
| Supplied Accessories            | Operating instruction (1)<br>IR remote commander unit (1)<br>AC power cable (1)<br>AC adaptor (1) |

## Notes

|      |   |
|------|---|
| Note | *[1] The values for dimensions are approximate. |
|------|---|

## Gallery

