COLOR BLOCK CAMERA EVI-400/401 EVI-400DR/401DR

Component/OEM

SONY



Outline

The EVI-400 and EVI-401 are color block cameras that combine a 1/3 type CCD with Super HADTM technology (380k/440k pixels) with a 12x optical zoom.

Equipped with functions not found in previous models, these cameras also feature a compact design for easy installation. Incorporating Super HAD CCD technology, these cameras achieve high sensitivity

(minimum object illumination of 1 lx). An EEPROM chip contains the pre-programmed factory default camera settings so the camera setting can be stored without battery backup.

In addition to the standard RS-232C, these cameras feature a TTL level interface to enable a non-computer device to control camera settings. The EVI-400DR and EVI-401DR provide additional features such as a digital zoom with a standard 2x zoom (max. 8x) and a V-Lock function which allows the camera to be controlled externally, thus extending the potential range of applications for these cameras.

Features

- ●1/3 type CCD with Super HAD[™] technology (380k/440k pixels)
- High Sensitivity (1 lx at 50 IRE, High Gain Mode)
- Compact Size (47 mm x 55.4 mm x 82.5 mm)
- ●12x Optical Zoom
- ●2x(max. 8x) Digital Zoom (EVI-400DR/401DR)
- External Synchronization, V-Lock (EVI- 400DR /401DR)
- •5 Position Presets + Factory Default Preset (EEPROM)
- ●VISCA[™]/RS-232C Control
- TTL Level Interface
- * VISCA is an acronym of Video System Control Architecture. It is a network protocol designed to interface a wide variety of equipment to computer.

Camera Control

Camera functions can be controlled remotely

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Direct Interface

Transmission signal levels for VISCA interface can be set to $0{\sim}0.3V$ (low) and $4.5{\sim}5.0V$ (high).

Control Circuit Board

Depending on the type of "add-on" control circuit board, the functions listed above are controllable. An MD-78 CN104 (27P) connector is used for connection with a 27pin flat cable. For details of the circuit design and specifications, refer to the instruction manual.

Autofocus

○Interval AF

The autofocusing mechanism is activated repeatedly at regular intervals, but the interval (latency) can be set.

The autofocusing mechanism is activated when zooming begins; after a given period of time autofocusing stops. The duration of autofocusing can be set.

One Push AF

After sending a trigger command through the VISCA interface, the autofocus function works only for the time period set.

◇AF Sensitivity

The autofocus function can be set to a lower sensitivity. To adjust for changes in the illumination conditions, repetitious autofocusing can be controlled.

AE Gain

A maximum gain value can be selected. High Gain Mode offers a maximum 10 dB increase in sensitivity. A minimum object illuminance of 1 Ix is achievable in High Gain mode.

Position Preset

Five preset camera settings can be stored semipermanently in EEPROM (electrically erasable and programmable ROM).

Factory Preset

The factory default settings can be changed by custom settings without using the position preset function. Custom settings available include: (1) digital zoom magnification; (2) zoom speed; (3) zoom limiter settings (tele-scopic/wide); and (4) close focusing limiter settings. Details are available upon request.

User Support (EEPROM set)

The EEPROM (electrically erasable and programmable ROM) has address space in which users can store user defined settings. Date of manufacture, ID, and other data are also recorded and can be retrieved.

External Synchronization (V-Lock Synchronization)

V-Phase can be synchronized externally by inputting a V-Lock signal via a CN700 connector to the MD-78 circuit board. (EVI-400DR/401DR)

Note:

V-Lock synchronization is a simplified synchronization method, so unlike VBS Gen-lock, color signals cannot be synchronized.



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-CN301

Pin Assignments

CN30)1 (Power)
1	DC IN (6~12V)
2	GND

CN001 (Video Out)

1	GND
2	C OUT
3	GND
4	Y OUT
5	GND
6	VBS OUT

CN700 (External Sync.)

1	VL PULSE IN
2	FREQ PULSE IN
3	GND

CN204 (VISCA[™] / Direct)

1	TXD IN_RS
2	DTR IN_RS
3	DSR IN_RS
4	RXD IN_RS
5	TXD IN_DIRECT
6	DTR IN_DIRECT
7	DSR IN_DIRECT
8	RXD IN_DIRECT
9	GND
10	AF LED

CN104 (External Control) Refer to the instruction manual.

CN206

(Zoom, Focus Control / User Port in /Out)

0000	
1	ZOOM WIDE
2	ZOOM TELE
3	AF ON/OFF
4	FOCUS NEAR
5	FOCUS FAR
6	GND
7	AF LED
8	USER PORT IN 1
9	USER PORT IN 2
10	USER PORT OUT 1
11	USER PORT OUT 2

Accessory cables

The EVI-400/401 is shipped with 5 cables, and the EVI-400DR / 401DR is shipped with 6 cables in the unit packaging box. \bigcirc To control the camera via RS-232C, see the RS-232C Command List and the demonstration software.

Accessory



Wide Conversion Lens(Optional)
VCL-0637W
0.6x Wide Conversion



Filter Attachment Adaptor (Optional Accessory) • LO-400F



 \$\Phi\$37mm Adaptor Lens (Optional)

Conversion lenses for Sony Camcorders having 37mm screw can be used with the EVI-400/401/ 400DR/401DR

The RS-232 Control Protocol and Command List is provided by Sony on an "AS-IS BASIS" without warranty of any kind. Sony does not warrant any particular result from the use of this Control Protocol and Command List and disclaims and excludes all warranties, express or implied, with respect to that Control Protocol and Command List, including, but not limited to, any or all implied warranties of merchantability or fitness for a particular purpose. In fact, Sony specifically acknowledges that software developed based on this Control Protocol and Command List may cause malfunction or damage to hardware and software used with it (including Sony hardware and software) and specifically disclaims any liability for any such malfunction or damage. This Control Protocol and Command List should be used with caution.

Specifications

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	EVI-400 (NTSC)	EVI-401 (PAL)	EVI-400DR (NTSC)	EVI-401DR (PAL)
Image Sensor		1/3 type Sup	er HAD CCDTM	
Effective Picture Elements	768 (H) ×494 (V)	752 (H) × 582 (V)	768 (H) ×494 (∨)	752 (H) × 582 (V)
Horizontal Resolution (center) Vertical Resolution (center)	more than 460TV lines more than 350TV lines	more than 450TV lines more than 400TV lines	more than 460TV lines more than 350TV lines	more than 450TV lines more than 400TV lines
Lens	12x zoom,	f = 5.4 to 64.8, F = 1.8 to 2.7, W	/ide Macro, Autofocus (Inner Foo	cus System)
Digital Zoom	2x (total x 24 wi 8x max. (total 96)		2x (total x 24 wit 8x max. (total 96x	h optical zoom) with optical zoom)
Angle of view (H) (V)	approx. 48.8° (wide end) to approx. 4.4° (tele end) approx. 37.6° (wide end) to approx. 3.3° (tele end)			
Lens Construction	9 elements in 6 groups (incl. 2 aspherical lenses)			
Min. Working Distance	10 mm (wide end), 800 mm (tele end)			
Video Out (75 Ω Terminated)	Y: 1.0 V p-p sync negative C: 0.286 V p-p VBS: 1.0 V p-p composite	Y: 1.0 V p-p sync negative C: 0.3 V p-p VBS: 1.0 V p-p composite	Y: 1.0 V p-p sync negative C: 0.286 V p-p VBS: 1.0 V p-p composite	Y: 1.0 V p-p sync negative C: 0.3 V p-p VBS: 1.0 V p-p composite
Sync. System	Internal Internal			External
External Sync. (V-Lock)	High: 3.0 to 5.5 V Impendance: 94KΩ(typical value) Low: less than 0.3 V Frequency deviation: ±1%			
Minimum Illumination	1 lx (typical value) F 1.8 (at 50 IRE)			
S/N Ratio	more than 48dB			
White Balance	ATW, One push WB, Indoor Preset, Outdoor Preset			
Focus	Auto Focus, Manual Focus, One push trigger AF, Zoom trigger AF, Interval AF			
Electronic Shutter	27 steps (1/60 to 1/10,000 s)	28 steps (1/50 to 1/10,000 s)	27 steps (1/60 to 1/10,000 s)	28 steps (1/50 to 1/10,000 s)
Operating temp./humidity	0 to 50°C ∕-20 to 60 °C			
Operating temp./humidity	30 to 85%/20 to 90%			
Power Requirements	6 to12 Vdc. 2.4W (inactive motor) / 3.2W (active motor) 6 to12 Vdc. 2.6W (inactive motor) / 3.5W (active motor)			
Dimensions (W/H/D)	47×55.4×82.5mm			
Weight	175g 176g			
Supplied Accessories	2P and 3P (White), 3P (Red, excl. EVI-401), 6P, 10P, and 11P Harnesses			

Dimensions



(Unit:mm)

Sony Electronics Inc. Broadcast and Professional Company 1 Sony Drive Park Ridge, NJ 07656 www.sony.com/videocameras 1-800-686-SONY

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