EVI-D30 (NTSC)
EVI-D31 (PAL)

The EVI-D30 and the EVI-D31 combine a high quality 1/3-inch CCD colour camera with a sophisticated pan and tilt base. They form attractive packages that are ideal for video communication and general surveillance applications. Control of the camera is via RS-232C or using the supplied infrared remote commander.

Two intelligent features set these units apart from many other currently available cameras –
Auto Tracking (AT) and Motion Detection (MD).

Component/OEM

- • High speed, wide range pan / tilter
- •• x12 optical zoom, high speed auto-focus lens
- ••• 6 Position Preset
- •••• Auto Tracking / Motion Detector
- ••••• RS-232C Serial control (VISCA™)
- •••••• IR remote commander

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AT (AUTO TRACKING) MODE

AT is a function which continually extracts a subject that the user pre-defines. After picking up pixels of similar color and brightness around the selected subject, EVI-D30/D31 extracts the target by using the subject model based on light reflection and nonlinear camera processing. There are four modes for pre-defining the subject.

- AT-PAN/TILT
  This function follows the moving subject automatically by controlling the pan & tilt motors without the use of special sensors.

- AUTO ZOOM
  This function automatically controls the zoom lens to ensure that the size of the subject remains constant.

- ATAE
  The EVI-D30/D31 employs the auto exposure and advanced backlight compensation systems to ensure that the subject remains bright even in harsh backlight conditions. Because the subject position is known, a comparison can be made between its brightness and that of the background and the camera subsequently adjusted to compensate for the conditions.

IR remote commander

MD (MOTION DETECTOR) MODE

MD basically detects the difference between the initial reference image and the current image.

The conventional technique employed in MD uses only the brightness of the video signal. The EVI-D30/D31 uses both the brightness and color which enables even an object of the same brightness as the background to be detected.

- Changes in light conditions are constantly monitored and the data in the reference image adjusted.

- A user can set two rectangular detection areas of any size and in any position of the scene.

- Once motion is detected within the preselected windows an alarm signal is output which, for example, can commence the recording on a VCR.

- This mode is made even more versatile by the ability to adjust the detection brightness, color and area.

SUPPLIED ACCESSORIES

- AC power adapter
- AV cable
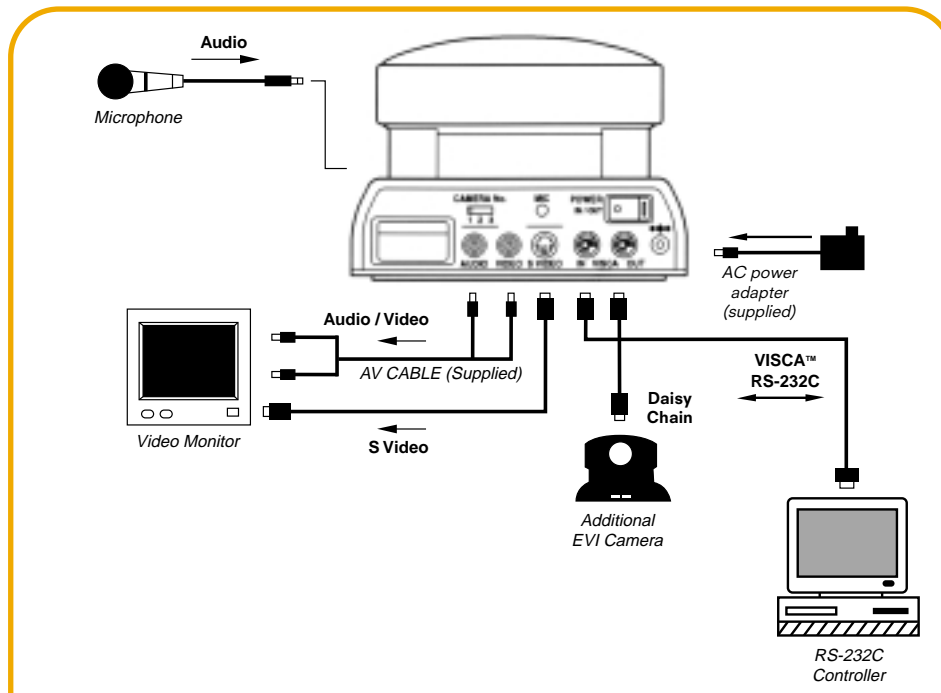- IR remote commander
- velcro tape
- operating instructions

OPTIONAL ACCESSORY

- Conversion lens VCL-0637W
  0.6 x wide conversion

CONNECTION

Audio → Microphone

AC power adapter (supplied)

Audio / Video ← AV CABLE (Supplied)

S Video ←

Video Monitor

VISCA™ RS-232C

Daisy Chain

Additional EVI Camera

RS-232C Controller

● Controllable Functions

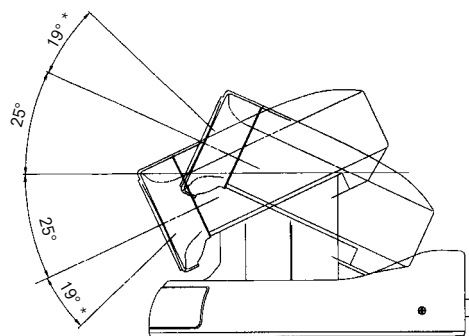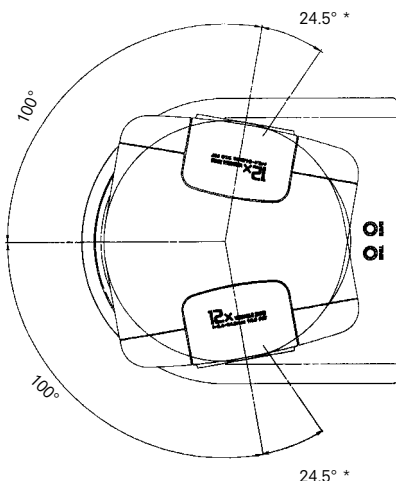|	Remote Commander	VISCA™ RS-232C		Remote Commander	VISCA™ RS-232C
Power ON / OFF	Yes	Yes	Gain Preset / Detect	No	Yes
Zoom Tele / Wide	Yes	Yes	Position Preset / Reset	Yes	Yes
Zoom Fast Tele / Wide	Yes	Yes	Position Detect	No	Yes
Zoom Position Preset / Detect	No	Yes	Pan / Tilter Operate	Yes	Yes
Auto Focus On / Off	Yes	Yes	Pan / Tilter Absolute Position Operate	No	Yes
Focus Far Near	No	Yes	Pan / Tilter Relative Position Operate	No	Yes
Focus Position Preset / Detect	No	Yes	Pan / Tilter Position Detect	Yes	Yes
White Balance Select / Detect	No	Yes	Pan / Tilter Home Position	Yes	Yes
Back Light Compensation On / Off	Yes	Yes	Pan / Tilter Reset	Yes	Yes
Back Light Compensation	No	Yes	AT Mode Preset / Reset	Yes	Yes
Preset / Detect	No	Yes	AT Mode Detect	No	Yes
Bright Control Up / Down	No	Yes	MD Mode Preset / Reset	Yes	Yes
Shutter Speed Preset / Detect	No	Yes	MD Mode Detect	No	Yes
Iris Preset / Detect	No	Yes			

VISCA™

EVI-D30/D31 can be controlled by RS-232C serial control using VISCA™ *.
VISCA™ is an acronym of Video System Control Architecture.
It is a network protocol designed to inter-face a wide variety of video equipment to computer. Under VISCA™ , up to 7 EVI-D30/D31 can be connected to one controller using RS-232C communication.
RS-232C parameters are communications speed of 9600 baud, data length of 8 bits, 1 stop bit, and no parity.

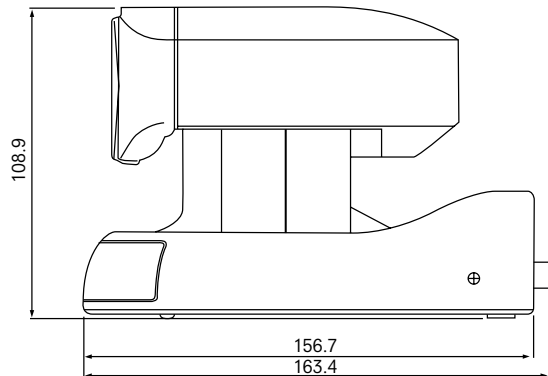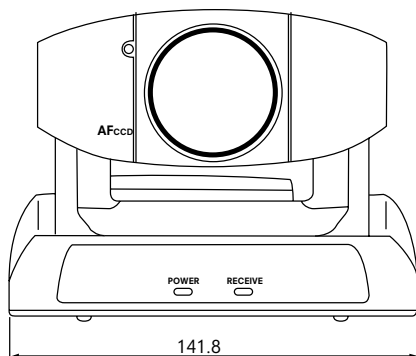* VISCA™ is a trademark of Sony Corporation.

PAN/TILT RANGE

24.5° *
100°
100°
24.5° *

19° *
25°
25°
19° *

*Angle of view

SPECIFICATIONS

	EVI-D30	EVI-D31
Video Signal	NTSC	PAL
Image Sensor	1/3-inch IT CCD	
Effective Pixels	768 (H) X 492 (V)	752 (H) X 585 (V)
Horizontal Resolution	460 TV lines	450 TV lines
Vertical Resolution	350 TV lines	400 TV lines
Lens	×12 Power Zoom, to f=5.4 to 64.8 mm, F1.8 to F2.7	
Angle of View (H)	4.3 to 48.8 degrees	
Shortest Subject Dist	10 mm (WIDE end), 800 mm (TELE end)	
Minimum Illumination	7 lx (F1.8)	
Illumination Range	7 to 100,000 lx	
Auto Exposure	Auto Iris, AGC	
Shutter Speed	1/60 to 1/10,000 (VISCA™ control)	1/50 to 1/10,000 (VISCA™ control)
Gain	Auto/Manual (VISCA™ control)	
White Balance	ATW / One Push Hold, Indoor Preset, Outdoor Preset (VISCA™ control)	
S / N Ratio	more than 48 dB	
Pan / Tilt	Horizontal ±100° (Max speed 80° / sec), Vertical ±25° (Max speed 50° / sec)	
Video Output	RCA pin jack, 1Vp-p, 75 Ω unbalanced	
S Video Output	4 pin mini DIN	
Audio Output	RCA pin jack (monaural), Rated output 327 mV, Output impedance less than 2.2 kΩ	
Control Terminal	RS-232C, 8 pin mini DIN, 9600 bps, Data 8 bit, Stop 1 bit	
Microphone Input Terminal	Mini jack (monaural) (Ø3.5), Rated input 0.775 mV DC3V for low impedance microphone, Input Impedance more than 10 kΩ	
Power Terminal	DC IN 13.5 V (EIAJ unified polarity type)	
Power Requirements	DC 12 to 14 V	
Power Consumption	11 W	
Operating Temperature	0 to 40° C	
Storage Temperature	-20 to 60° C	
Dimensions	Camera 142 (W) x 109 (H) x 164 (D) mm, Remote Commander 56 (W) x 26 (H) x 210 (D) mm	
Mass	Camera 1200g, Remote Commander 109 g	
Supplied Accessories	AC power adapter (x1), AV cable (x1), IR remote commander (x1), velcro tape (x1), operating instruction (x1)	

DIMENSIONS

AF CCD

141.8

108.9

156.7

163.4

Unit : mm

CA EVI-D30/31/GB-25/02/2000

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