

SONY DXC-390P
FUJINON Pan-Tilt system
The Webc@st Camera



The webc@st camera package. Don't miss a thing.

A unique promotional offer from Sony teams the DXC-390P 3CCD colour camera with a specially modified Pan-Tilt-Zoom mechanism from Fujinon to create a "web ready" remotely controllable camera system. Targeted at A/V dealers and installers wishing to create total webcasting solutions for their customers, the Webc@st package can be integrated into a suitable non-linear editing system, providing programme makers with everything they need to capture intimate "Point of View" (PoV) material without compromising broadcast quality.

The Sony DXC-390P 3CCD colour video camera has already proven immensely successful with makers of many "fly on the wall" programmes broadcast on television and the World Wide Web.

Thanks to its blend of superb picture quality and compact dimensions, the DXC-390P is an ideal choice for "PoV" programmes such as the European smash hit series

"Big Brother" where a scene must be monitored continuously with full control over camera direction and field of view, but without the intrusion of a "live" operator to disturb the action.



this is not a rehearsal.

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SONY

Webcasting solutions in a unique package

The Webc@st package

The Webc@st package comprises a Sony DXC-390P colour CCD camera, plus a Fujinon Pan-Tilt-Zoom (PTZ) mechanism with controller and cables. The PTZ has been modified especially for use with the DXC-390P, allowing control of the PTZ system and the camera lens up to 100 metres between the camera and the controller and monitor. This is ideal for situations where the programme maker is located remotely from the subject of the webcast, (e.g in another building). The Webc@st pack is available in two versions containing one or four cameras and PTZ systems controlled by a single EOP-102J-30/50DA control panel and a camera mounting pad.

Intuitive control

Compatible with the Sony DXC-390P camera (and the DXC-990P in the near future), the Fujinon control panel includes a combined pan/tilt/zoom joystick on the right, and focus wheel and speed control on the lower left edge. Resting the right hand on the softly padded wrist rest, the operator can intuitively guide and twist the joystick to the desired position and then zoom in or out.

New technology for improved camera sensitivity

The Sony DXC-390P is a 1/3 type 3-CCD color video camera which incorporates 10-bit DSP and Exwave HAD™ technology – a new Sony technology that greatly improves camera sensitivity (F8 at 2000 lx) while reducing smear.

Using a C-mount lens and providing a resolution of 800 TV lines as well as a user-friendly on-screen menu, the DXC-390P is ideal for remote shooting applications.



Fujinon CPT-1A-10D A/C Remote-controlled system

The CPT-1A-10D A/C system is a miniature remote-controlled system for indoor operation, designed to accommodate miniature CCD-cameras.

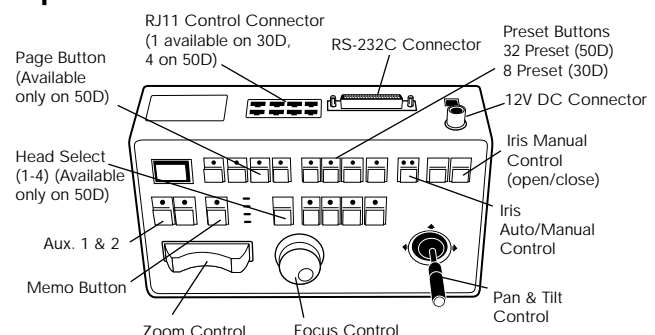
The CPT-1A-10D A/C is ideal for a huge range of applications, including standard monitoring applications or remote monitoring of places where utmost silence is required, such as churches, wedding-halls, theatres or in TV studios.



Features include:

- Easy wiring by using a regular two-wire telephone cable for wiring tasks between the operation unit and head.
- The distance between the operation unit and head is extendable to up to 100 meters by using cable or virtually up to infinity by using the modem setup.
- The pan and tilt angles can be set both on the head and on the operation unit. This simplifies adjustments of the heads in areas which are remote or difficult to access.
- Up to 4 heads can be controlled from a single operation unit. Simultaneous control may be performed for a single head, a certain group of heads or the entire group of heads.
- The CPT-1A-10D A/C system incorporates the same well-reputed DC-servo technology which is used in Fujinon's high-grade Pan/Tilt-Head systems. This ensures reliability, stability and smooth low-noise operation.
- This DC-servo technology also permits high repeatability of movements for precise and accurate repetition of stored positions.
- The Pan/Tilt head is available in two versions: the CPT-1A-10DA and CPT-1A-10DC. The CPT-1A-10DC has the additional features of transmitting power supply and genlock signal to the DXC-390P.
- Demonstration software is also available to control all functions via the RS-232C connector of the EOP-102J-30/50DA.

Operation Unit EOP-102J-30/50DA



Fujinon Pan-Tilt System Technical Data



	CPT-1A-10D A/C
Mechanics	
Control method	DC servo system
Max. load capacity	4 kg
Max. tolerable torque	60 N-cm
Speed-ratio	1:30
Accuracy of positioning	less than +/- 10'
Level of noise	less than NC40
Installation	Stationary
Max. pan range	+/- 135°
Max. tilt range	+/- 95°
Max pan/tilt speed	9°/s
Functions	
Setting of pan/tilt-angle	remotely from EOP & manually on head
Normal-Reverse	reverses direction of movements
Connectors f/ input/output	
Control signal in/out	7-pin
Lens control	12-pin
Auxiliary	6-pin
Genlock	BNC
Add. Power	3-pin Tajimi R03-R3f
Camera power	CPT-1A-10DC only
Genlock connector	CPT-1A-10DC only
Power source	CPS-401A-10DA (15V DC)
Power consumption	max. 40W (head only)
Temperature range (Operation)	-10 to +50 °C
Temperature range (Storage)	-20 to +60 °C
Dimensions (approx. w/o connectors)	215(H) x 120(W) x 76(D) mm

	EOP-102J-30DA	EOP-102J-50DA
Number of heads	1	4
Manual control		
Pan/Tilt	Joystick	
Zoom	Seesaw, variable speed	
Focus	rotary knob	
Iris	auto by camera, manually with pushbuttons (const. Speed)	
Pre-Set Control (Shot-Box)		
Presets for	Pan/Tilt, Zoom, Focus	
Number of presets	8	8 for each head
Additional functions		
Setting of pan/tilt-angle	remotely	
AUX-switch	Yes	
Head select	No	Yes
Connector f/ expansion	Yes	No
Connectors f/ input/output		
Control signal in/out	RS-232C/ Mini-DIN	
Head select signal out	n/a	12-pin
Connector f/ expansion	12-pin	n/a
DC-in	5.5 mm female	
Power source	12V DC dedicated power-supply	
Power consumption	5W	
Temperature range (Operation)	-5 to +45 °C	
Temperature range (Storage)	-20 to +50 °C	
Dimensions (approx. w/o control elements)	50(H) x 210(W) x 110(D) mm	
Mass	0.8 kg	

Cable	Length
UHD -344A-005	5m
UHD -344A-010	10m
UHD -344A-020	20m
UHD -344A-030	30m
UHD -344A-050	50m
UHD -344A-100	100m

UHD-344A Series Connector-Cable EOP to Head:
(total distance between head and EOP must not exceed 100 m)

Optional Accessories



CMA-D3CE

Camera Adaptor

- Recommended when distance between camera and monitor exceeds 20 m and power is not supplied to camera from the PTZ head (case of CPT-1A-10DA).
- Supplies DC power and transmits video/sync signal between the adaptor and the DXC-390P with CCZ-A cable and CCMC-3MZ cable.
- Connects with optional RM-C950 remote control unit.
- Composite, Y/C or RGB video signal output.



RM-C950

Remote Control Unit

- Full remote control of the DXC-390P camera functions and lens zoom / focus / iris functions via RS-232C.
- Useful to remote control the camera setting menus.



T14x5.5DA D58

- Special C-mount lens available from Fujinon, with modified connector to be controlled by EOP-102J-30/50DA controller (zoom and focus).

Mount	1/3 type C mount
Focal length	5.5 to 77 mm
Zoom ratio	14 x
Zoom control	Manual / Remote switchable
Iris control	Manual / Remote switchable
Maximum aperture ratio	1.4
Minimum object distance	1.0 m
Macro	Yes
Filter thread	M 62, P=0.75 mm
Mass	900 g



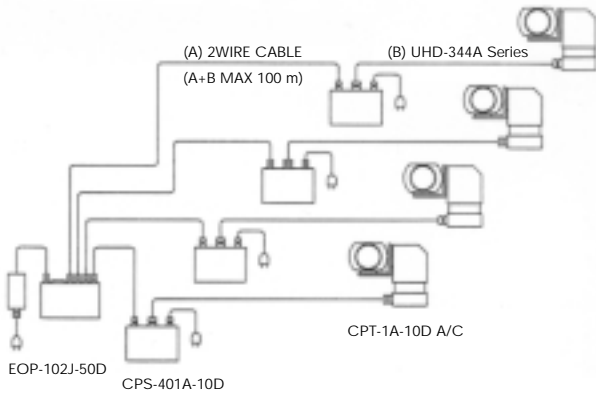
CCMC-3MZ

CCZ-A2/5/10/25/50/100

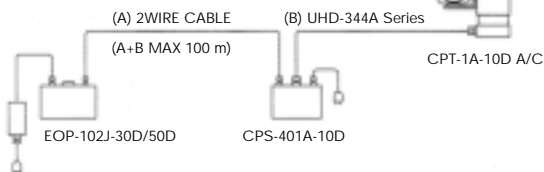
- For CMA-D3CE connection.
- Capable of connecting cables
- Supplied with interconnection adaptor CCZZ-1E.
- Transmits video signal up to 100m

Configuration examples

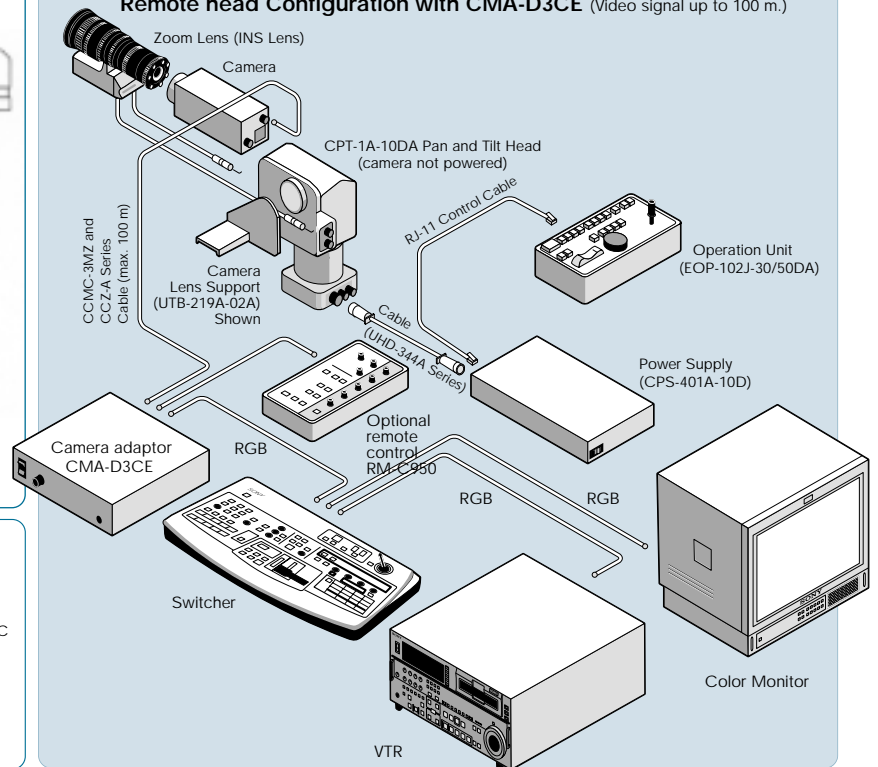
Multi head Control



Single head Control



Remote head Configuration with CMA-D3CE (Video signal up to 100 m.)



Many different configurations are available, with or without remote video. Please contact your local Sony office for details.

DXC-390P Specifications

Pick-up device	1/3 type IT (Interline Transfer) CCD
Effective picture elements	752 (H) x 582 (V)
Sensing area	4.8 (H) x 3.6 (V) mm
Scanning system	2:1 interlaced, 625 lines
Horizontal frequency	15.625 kHz
Vertical frequency	50 Hz
Sync system	Internal or External with VBS, HD / VD
Phase control	H / SC phase control
Horizontal resolution	800 TV lines
Sensitivity	F8.0 at 2000 lx
Minimum illumination	4 lx (F2, GAIN: HYPER)
S/N ratio	61 dB
Gain	STEP/ AGC/ HYPER selectable
Electronic shutter	OFF/ STEP/ VARIABLE/ CCD IRIS selectable
Lens	Remote (Auto or Manual) / Video selectable
AE area	Multi/ Large/ Medium/ Spot/ Slit/ Manual selectable
AE level	Variable
AE speed	Fast/ Mid/ Slow selectable
AE detect	Average/ Peak selectable
Contrast Effect	Manual/ DynaLatitude/ DCC+ selectable
Knee Point	High/ Normal/ Low selectable (Contrast Effect: Manual)
Black stretch	Variable (Contrast Effect: Manual)
Gamma	ON/ OFF Variable
Pedestal	Master and R/B Manual adjustable
Black balance	ABB
White balance	AWB/ ATW NORMAL/ ATW WIDE/ MANUAL/ 3200K/ 5600K selectable AWB or ATW R/B Paint, MANUAL R/B Gain
ATW area	NORMAL/ MANU selectable
ATW speed	FAST/ NORMAL/ SLOW selectable
Detail level	ON/ OFF (Variable at ON)

Detail Frequency	HIGH/ MID/ LOW selectable
Linear matrix	ON/ OFF
Linear matrix MODE	STANDARD/ R Enhance/ G Enhance/ B Enhance/ Manual selectable
Partial Enhance	ALL/ IN/ OUT selectable
CCD integration mode	FIELD/ FRAME selectable
Shading Compensation	OFF / ON (Manual control)
Trigger Polarity	Positive edge trigger / Negative edge trigger selectable
Baud rate	19200/ 9600/ 4800/ 2400/ 1200 selectable
Sync	RGB/ G/ OFF selectable
Strobe	ON/ OFF
User File	A/ B switchable (Two pattern memories)
Scene File	STANDARD/ MICROSCOPE/ FULL AUTO/ STROBE / FILE A or B
Output signal	VBS / RGB / SYNC / Y / C
Operating temperature	-5°C to 45°C
Storage temperature	-20°C to 60°C
Power requirements	DC 10.5 V to 15.0 V
Power consumption	Approx. 7.6 W
Dimensions	56(W) x 50(H) x 128(D) mm (2 1/4 x 2 x 5 1/8 inches) (Excluding projecting parts)
Mass	Approx. 370 g (13 oz)
Connectors	Lens (6 pin) RGB / SYNC (9 pin D-sub) DC IN / VBS (12 pin) VIDEO OUT (BNC) TRIGGER IN (BNC) REMOTE (8 pin mini DIN)

Supplied accessories

Lens cap (x1)
Tripod adapter (x1)
Operation manual (x1)
Panel sheet for RM-C950



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