

# SONY®



## Camera Control Unit **CCU-D50/D50P** SDI Camera Adaptor **CA-D50**

*Providing an extremely cost-effective,  
end-to-end digital camera system solution*

### CCU-D50<sup>1</sup> Camera Control Unit

- Interfaces with Sony DXC-D35 Series digital cameras<sup>2</sup> via its associated CA-D50 Camera Adaptor.
- The output of the CA-D50 Camera Adaptor is transferred to the CCU-D50 Camera Control Unit as a component digital SDI<sup>3</sup> signal via a Sony CCZ-A 26-pin cable up to 75 m long. By using a Sony CCZ-AD 26-pin cable, lengths up to 150 m can be achieved. Using this digital SDI connection allows virtually degradation-free transmission from the camera to the CCU.
- The distance between the CA-D50 Camera Adaptor and CCU-D50 Camera Control Unit can be extended to a maximum 200 m by providing a separate low loss coaxial video cable to carry the SDI signal between the two units.
- Switchable mode to accept analog component/VBS signals from DVCAM<sup>®</sup> camcorders equipped with a 26-pin interface. Maximum cable length from the camcorder to the CCU-D50 is 300 m<sup>4</sup>.
- Outputs analog composite and one of the following: component digital SDI, analog component (Y/R-Y/B-Y or RGB), or S-video<sup>5</sup>.
- Flexible intercom connectivity allows the interfacing of 2-wire or 4-wire systems to be selected.

- Green tally indication included for use in mid to large-scale camera operations.

<sup>1</sup> In the following text, 'CCU-D50' refers to both the CCU-D50 (NTSC model) and the CCU-D50P (PAL model).

<sup>2</sup> An upgrade is required for all DXC-D30 Series cameras. DXC-D35 cameras with serial numbers earlier than 110031 and DXC-D35WS cameras with serial numbers earlier than 100395 require a software change. For further information please contact Sony customer support (POSC) at 1-800-883-6817.

<sup>3</sup> Embedded audio is not supported.

<sup>4</sup> The distance between the camcorder and the CCU-D50 may vary depending on system requirements.

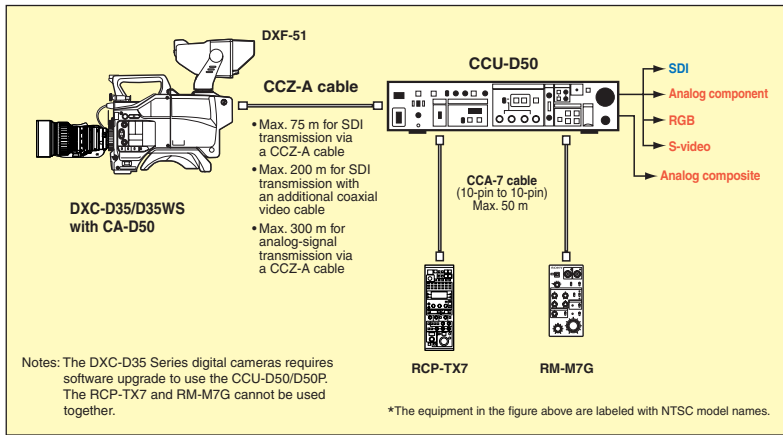
<sup>5</sup> Available output signals depend on the connected camera or camcorder.

### CA-D50 Camera Adaptor

- Designed for use with the CCU-D50 Camera Control Unit.
- Dockable to Sony DXC cameras that employ the 76-pin digital connector.
- Interfaces with 26-pin equipped Sony portable VTRs.
- Interfaces with the BKP-L551 Battery Adaptor with the appropriate service part<sup>\*</sup>.

<sup>\*</sup> Please contact your nearest Sony office.

## System Configuration



## Specifications

### CCU-D50/D50P

|   | CCU-D50   | CCU-D50P   |
|---|---|--|
| <b>Input connectors</b>                       |   |  |
| GEN LOCK                                      | BNC type, loop-through, VBS or BBS, 1.0 Vp-p, 75 Ω  |  |
| SDI   | BNC type, 270 Mb/s, 0.8 Vp-p, 75 Ω  |  |
| RETURN VIDEO                                  | BNC type, loop-through, 1.0 Vp-p, 75 Ω  |  |
| PROMPTER VIDEO                                | BNC type, loop-through, 1.0 Vp-p, 75 Ω  |  |
| <b>Output connectors</b>                      |   |  |
| VBS (1, 2)                                    | BNC type, VBS, 1.0 Vp-p, 75 Ω   |  |
| Y/R-Y/B-Y                                     | BNC type, Y: 1.0 Vp-p, 75 Ω, R-Y/B-Y: 0.700 Vp-p, 75 Ω  | BNC type, Y: 1.0 Vp-p, 75 Ω, R-Y/B-Y: 0.525 Vp-p, 75 Ω |
| Y/C   | BNC type, Y: 1.0 Vp-p, 75 Ω, C: 0.286 Vp-p, 75 Ω  |  |
| R/G/B   | BNC type, 0.7 Vp-p, 75 Ω  |  |
| SYNC  | BNC type, 0.3 Vp-p, 75 Ω  |  |
| SDI (1, 2)                                    | BNC type, 270 Mb/s, 0.8 Vp-p, 75 Ω  |  |
| S-VIDEO                                       | DIN 4-pin, Y: 1.0 Vp-p, 75 Ω, C: 0.286 Vp-p, 75 Ω   DIN 4-pin, Y: 1.0 Vp-p, 75 Ω, C: 0.3 Vp-p, 75 Ω                           |  |
| MONITOR                                       | BNC type, VBS, 1.0 Vp-p, 75 Ω   |  |
| MIC   | XLR 3-pin, 600 Ω  |  |
| <b>Camera control input/output connectors</b> |   |  |
| CAMERA  | Sony Z-type 26-pin  |  |
| INTERCOM/TALLY                                | D-sub 15-pin, 4W/2W selectable, R/G TALLY, contact  |  |
| REMOTE  | 10-pin  |  |
| <b>General</b>                                |   |  |
| Power requirements                            | AC 120 V, 50/60 Hz  | AC 200/240 V, 50/60 Hz                                 |
| Power consumption                             | Approx. 1.7 A   | Approx. 0.8 A  |
| Operating temperature                         | +41 °F to +104 °F (+5 °C to +40 °C)   |  |
| Storage temperature                           | -4 °F to +131 °F (-20 °C to +55 °C)   |  |
| Dimensions                                    | 16 3/4 x 3 1/2 x 11 1/4 inches (424 (W) x 88 (H) x 283 (D) mm)  |  |
| Weight  | 13 lb 14 oz (6.3 kg)  |  |
| Supplied accessories                          | AC power cord (x 1), rack mount adaptor (x 2), rack mount screw (x 4), tally indication segment (x 1), operation manual (x 1) |  |

### Signals transferred to/output from the CCU-D50/D50P

| Camera/Camcorder          | Signals transferred to/output from the CCU             |
|---------------------------|--|
| DXC-D35/D35P/D35WS/D35WSP | VBS and one of the following: SDI, Y/R-Y/B-Y, RGB, Y/C |
| DSR-370/370P              | Y/R-Y/B-Y and VBS                                      |
| DSR-570WS/570WSP          |  |

## CCU-D50/D50P Rear Panel



## Peripheral Equipment

### RCP-TX7 Remote Control Panel

- Provides full\* camera control functions to cover extremely sophisticated operations.

\*When connecting a camera/CA-D50 to the CCU-D50.

### RM-M7G Remote Control Unit

- Compact and lightweight handheld unit intended for basic camera control operations.

### CCZ-A cables (26-pin to 26-pin)

- Six types of cable lengths available:

|                              |                                |
|------------------------------|--------------------------------|
| CCZ-A2; 6.6 feet (2.0 m)     | CCZ-A5; 16.4 feet (5.0 m)      |
| CCZ-A10; 32.8 feet (10.0 m)  | CCZ-A25; 82.0 feet (25.0 m)    |
| CCZ-A50; 164.0 feet (50.0 m) | CCZ-A100; 328.1 feet (100.0 m) |

### CCZZ-1E Extension Connector (26-pin to 26-pin)

- Extension connector for CCZ-A cable interconnection.

### CCZZ-1B Bulk-head connector (26-pin to 26-pin)

- Wall mountable type connector for CCZ-A cable interconnection.

### CA-D50

|                                | CA-D50 Camera Adaptor   |
|--------------------------------|---|
| <b>Input/Output connectors</b> |   |
| Camera interface               | Pro 76-pin DIGITAL  |
| CCU/VTR/CMA                    | Sony Z-type 26-pin  |
| SDI OUT                        | BNC type, 270 Mb/s, 0.8 Vp-p, 75 Ω                            |
| GENLOCK/PROMPTER OUT           | BNC type, 1.0 Vp-p, 75 Ω                                      |
| EARPHONE                       | Mini jack   |
| INTERCOM                       | Mini intercom jack  |
| DC IN                          | XLR-4-pin, 10.5 to 17.0 V                                     |
| <b>General</b>                 |   |
| Power requirements             | DC 12 V   |
| Power consumption              | Approx. 3.8 W   |
| Operating temperature          | +14 °F to +113 °F (-10 °C to +45 °C)                          |
| Storage temperature            | -4 °F to +131 °F (-20 °C to +55 °C)                           |
| Dimensions                     | 7 1/4 x 4 1/2 x 6 5/8 inches (113 (W) x 183 (H) x 168 (D) mm) |
| Weight                         | 2 lb 7 oz (1.1 kg)  |
| Supplied accessory             | Operation manual (x 1)  |

## CA-D50 Rear



# SONY

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