

Section 1 Installation

1-1. Checking ROM Version

If you have a DXC-D50/D50P/D50WS/D50WSP Color Video Camera or RCP-D50/D51 Remote Control Panel whose serial number is within the range described below, and you want to connect your DXC-D50/D50P/D50WS/D50WSP or RCP-D50/D51 to a CCU-TX50/TX50P and a CA-TX50/TX50P, you have to up-grade the software of the DXC-D50/D50P/D50WS/D50WSP and RCP-D50/D51.

For information about checking the version and up-grading the software, contact your Sony dealer or a Sony service representative.

Serial number

DXC-D50/D50WS: 100001 to 110000
 DXC-D50P/D50WSP: 400001 to 410000
 RCP-D50/D51: 100001 to 110000

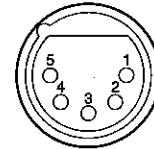
1-2. Supplied Accessories

Accessory	Sony P/N	Qt'y
Operation Manual	3-863-131-XX	1
CD-ROM PACK	3-863-421-XX	1
Warranty booklet	—	1

1-3. Connectors and Cables

1-3-1. Connector Input/Output Signals

- **PROMTER**
BNC 75 Ω 1.0 V p-p
- **RETURN OUT**
BNC 75 Ω 1.0 V p-p
- **TRIAx**
King type (for CA-TX50)
Fischer type (for CA-TX50P)
- **INTERCOM/PROGRAM (XLR 5P FEMALE)**

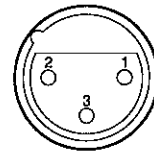


(External view)

No.	Signal	Specifications
1	INCOM MIC (G) IN	-60 dBu (DYNAMIC MIC only)
2	INCOM MIC (X) IN	
3	GND	GND for HEADPHONE
4	INCOM OUT	-0 dBu (max. 12 dBu)
5	PGM AUDIO OUT	

(0 dBu = 0.775 Vrms)

- **AUDIO IN CH1/CH2 (XLR 3P FEMALE)**

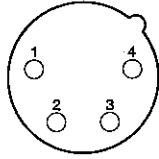


(External view)

No.	Signal	Specifications
1	MIC IN (G)	GND for MIC
2	MIC IN (X)	-60 dBu (for MIC input) 600 Ω balanced -20 dBu (for Line input) 600 Ω balanced
3	MIC IN (Y)	(Phantom: 48 V \pm 4 V)

(0 dBu = 0.775 Vrms)

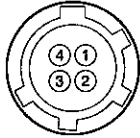
• **DC IN (XLR 4P MALE)**



(External view)

No.	Signal	Specifications
1	GND	GND for DC (+)
2	(SPARE)	No connection
3	(SPARE)	No connection
4	DC (+) IN	10.5 to 17 V DC

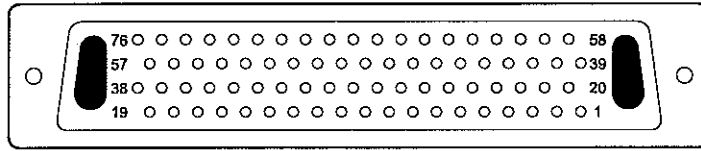
• **DC OUT (4P FEMALE)**



(External view)

No.	Signal	Specifications
1	GND	GND for UNREG
2	(SPARE)	No connection
3	(SPARE)	No connection
4	UNREG +12 V OUT	10.5 to 17 V DC, 1.5 A MAX

• CAMERA/CA (76P FEMALE)



(External view)

Pin No.	Signal	Specifications
1	REC TALLY OUT	$Z_i \geq 600 \Omega$
2	S.D. (V/D) OUT	H: 5 V L: 0 ± 0.5 V
3	SCL VTR OUT	$Z_i \geq 47 \text{ k}\Omega$ $Z_o \leq 1 \text{ k}\Omega$
4	GENLOCK (G) OUT	VBS: 1.0 V p-p $Z_i \geq 1 \text{ k}\Omega$
5	SYNC (G) OUT	H: 4.0 to 5.5 V p-p : NEGATIVE L: 0 ± 0.4 V dc $Z_o \leq 2 \text{ k}\Omega$
6	PB (G) OUT	1.0 V p-p $Z_i \geq 10 \text{ k}\Omega$
7	PB (Y) (X) OUT	1.0 V p-p, NEGATIVE, $Z_i \geq 1 \text{ k}\Omega$
8	VBS (CA) (G) IN	1.0 V p-p, SYNC NEGATIVE $Z_o = 75 \Omega \pm 5 \%$
9	VTR/CCU IN	VTR: 0 ± 0.25 V, $Z_o \leq 1 \text{ k}\Omega$ CCU: 5.0 ± 0.5 V
10	C (X) IN	NTSC: 0.286 V p-p $\pm 10 \%$ PAL: 0.300 V p-p $\pm 10 \%$ $Z_o \leq 75 \Omega \pm 5 \%$
11	Y (X) IN	1.0 V p-p, SYNC NEGATIVE $Z_o \leq 75 \Omega \pm 5 \%$
12	R/R-Y (CA) IN	R/G/B 1.4 V p-p, POSITIVE
13	B/B-Y (CA) IN	$Z_o \leq 75 \Omega \pm 5 \%$ COMPONENT IN *1
14	SKIN GATE IN	Gate area (H: 4 to 5.5 V dc) Non gate area (L: 0 ± 0.2 V dc)
15	+5.0 V IN	± 0.1 V
16	AGND	REG, GND
17	EXT DC OUT	10.6 V to 17.0 V dc
18	EXT DC GND	GND for ± 12 V dc
19	DCLK (X) IN	
20	VTR TRIG IN	
21	S.D. (C/V) IN	H: 5 V L: 0 ± 0.5 V
22	CS VTR OUT	$Z_i \geq 47 \text{ k}\Omega$ $Z_o \leq 1 \text{ k}\Omega$
23	GENLOCK (X) OUT	$Z_i \geq 1 \text{ k}\Omega$

Pin No.	Signal	Specifications
24	SYNC (X) OUT	H: 4.0 to 5.5 V p-p : NEGATIVE L: 0 ± 0.4 V dc $Z_o \leq 2 \text{ k}\Omega$
25	PB (VBS) (X) OUT	$Z_i \geq 10 \text{ k}\Omega$
26	CFV RESET I/O	H: 4.0 to 5.5 V p-p, $Z_o \leq 2 \text{ k}\Omega$ L: 0 ± 0.4 V dc
27	VBS (CA) (X) IN	1.0 V p-p, SYNC NEGATIVE $Z_o = 75 \Omega \pm 5 \%$
28	C (G) IN	NTSC: 0.286 V p-p $\pm 10 \%$ PAL: 0.300 V p-p $\pm 10 \%$ $Z_o \leq 75 \Omega \pm 5 \%$
29	Y (G) IN	1.0 V p-p, SYNC NEGATIVE $Z_o \leq 75 \Omega \pm 5 \%$
30	COMP GND	R/G/B 1.4 V p-p, POSITIVE
31	G/Y (CA) IN	$Z_o \leq 75 \Omega \pm 5 \%$ COMPONENT OUT *1
32	BATT S.DATA OUT	
33	+9.0 V IN	8.3 V to 9.1 V
34	-5.0 V IN	± 0.1 V
35	EXT DC OUT	10.6 V to 17.0 V dc
36	EXT DC GND	GND for ± 12 V dc
37	DCF IN	
38	DCLK GND	
39	MODE ID OUT	
40	MIC1 (G) IN	OPEN: COMP, GND: R/G/B
41	AUDIO LEV IN	H: 4 to 5.5 V dc L: 0 ± 0.2 V dc, 1 k Ω
42	(SPARE)	
43	DIGI/ANA OUT	H: Analog L: Digital
44	(SPARE)	
45	(SPARE)	
46	(SPARE)	
47	(SPARE)	
48	(SPARE)	
49	(SPARE)	
50	(SPARE)	

Pin No.	Signal	Specifications
51	(SPARE)	
52	DCLK GND	H: 3 ± 0.2 V dc
53	BYRY (0) IN	L: 0 ± 0.2 V dc
54	BYRY (2) IN	
55	BYRY (4) IN	
56	BYRY (6) IN	
57	BYRY (8) IN	
58	MIC1 (X) IN	-20 dBm, $Z_o \leq 100 \Omega$
59	MIC1 (Y) IN	
60	(SPARE)	
61	(SPARE)	
62	76P ID	
63	(SPARE)	
64	(SPARE)	
65	(SPARE)	
66	(SPARE)	
67	(SPARE)	
68	(SPARE)	
69	(SPARE)	
70	(SPARE)	
71	(SPARE)	
72	BYRY (1) OUT	H: 3 ± 0.2 V dc
73	BYRY (3) OUT	L: 0 ± 0.2 V dc
74	BYRY (5) OUT	
75	BYRY (7) OUT	
76	BYRY (9) OUT	

*1

	UC	CE
Y	0.714 V p-p	0.700 V p-p
R-Y	0.700 V p-p	0.525 V p-p
B-Y	0.700 V p-p	0.525 V p-p

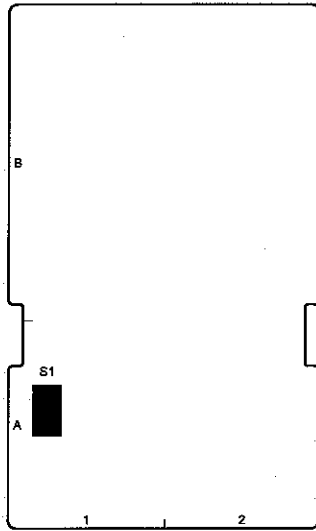
1-3-2. Connection Connector

Connection made with the connector panels during installation or service, should be made with the connectors/complete cable assemblies specified in the following list, or equivalent parts.

Connector name	Connection connectors/cables
PROMPTER RETURN OUT (BNC)	1-569-370-12 Plug, BNC
INTERCOM/PROGRAM (5P FEMALE)	1-508-370-11 XLR, 5P Male or CANNON XLR-5-12C equivalent
AUDIO IN (3P FEMALE)	1-508-084-00 XLR, 3P Male or CANNON XLR-3-12C equivalent
DC IN (4P MALE)	1-508-362-00 XLR, 4P Female or CANNON XLR-4-11C equivalent or Cable assembly 1-551-577-00 Cable with XLR plugs
DC OUT (4P MALE)	1-566-425-11 Plug, 4P Male or HIROSE HR10A-7P-4P equivalent

1-4. Switch Settings

CN-2646 board



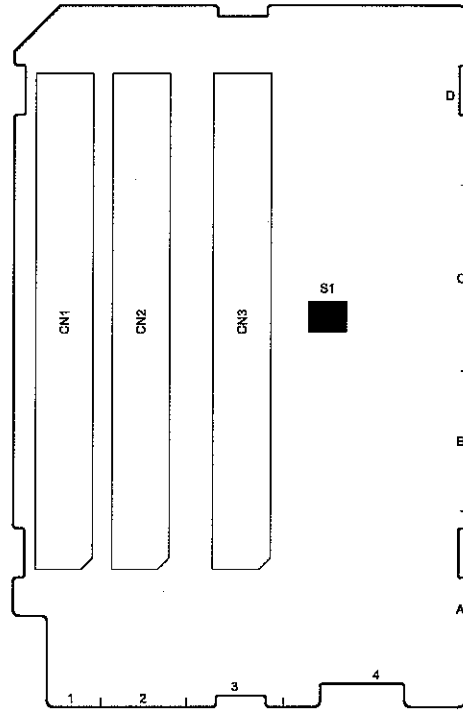
CN-2646 BOARD (A SIDE)

Note

A character string in the parentheses shows switch address (location) on the board.

- S1 (A-1): RET/VBS switch
RET: Return video signal from the camera control unit is output.
VBS: Video signal from the camera control unit is output.
Factory setting: RET

MB-1061 board



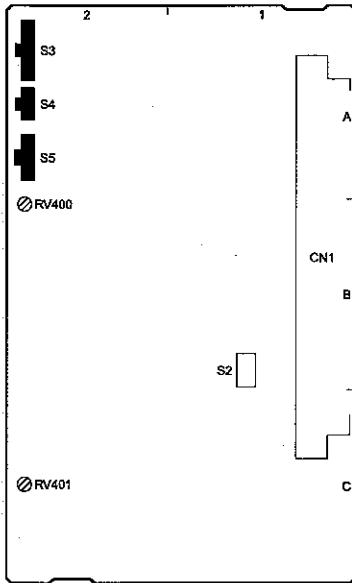
MB-1061 BOARD (A SIDE)

Note

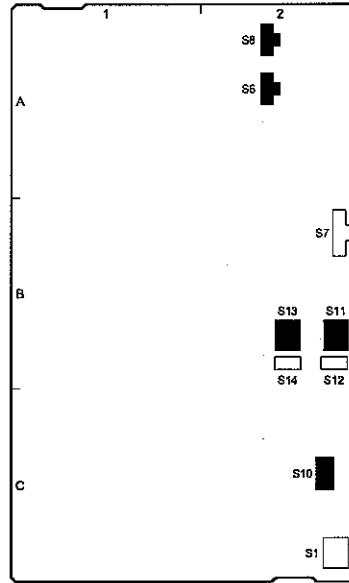
A character string in the parentheses shows switch address (location) on the board.

- S1 (C-4): Not used

MA-128 board



MA-128A BOARD (A SIDE)



MA-128A BOARD (B SIDE)

Notes

- A character string in the parentheses shows switch address (location) on the board.
- Never change the setting of the factory use switches.

S1 (C-2): Not used

S3 (A-2): CARBON/DYNAMIC switch
Selects a microphone type of the headset connected to the INTERCOM connector.
CARBON: Carbon microphone
DYNAMIC: Dynamic microphone
Factory setting: DYNAMIC

S4 (A-2): ON/OFF (UNBAL) switch
Selects ON or OFF according to the microphone type of the headset connected to the INTERCOM connector.
ON: When using CARBON or UNBALANCE type headset.
OFF: Normal mode
Factory setting: OFF

S5 (A-2): +/-/- switch

Sets the intercom audio level at the INCOM 1 connector to be sent to CCU.

+: Approx. 6 dB gain increase compared to the typical gain.

0: Typical gain

-: Approx. 6 dB gain decrease compared to the typical gain.

Factory setting: 0

S6 (A-2): ON/OFF switch

Controls ON/OFF of the MIC input monitoring function using the headset connected to the INTERCOM connector.

ON: Monitorable

OFF: Not monitorable

Factory setting: OFF

S7 (B-7): Not used

S8 (A-2): ON/OFF(SER MIX) switch

ON:

OFF:

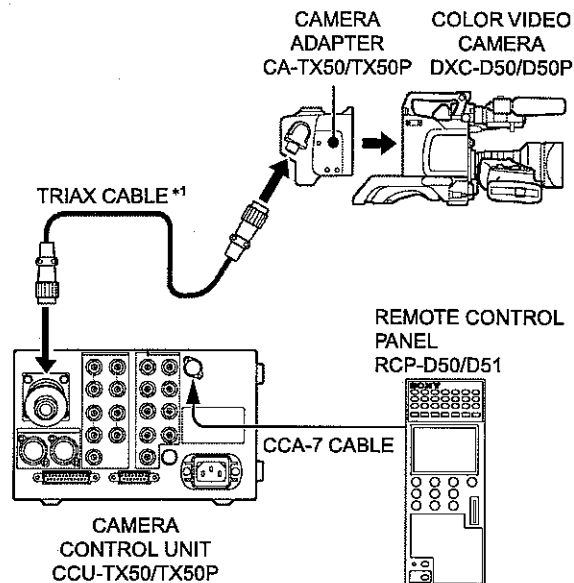
Factory setting: OFF

S10 (C-2): RTS/NORM switch
 S10 is set when RTS kit is connected to the INCOM 1 connector.
 RTS: RTS CH1 can be used as INCOM 1 connector.
 NORM: Normal mode
 Factory setting: NORM

S11 (B-2): INCOM1 Set switch
 INC1 ENG:
 Factory setting: ON
 INC2 PRD:
 Factory setting: OFF
 PGM1:
 Factory setting: OFF
 PGM2:
 Factory setting: OFF

S13 (B-2): PGM1 Set switch
 INC1 ENG:
 Factory setting: OFF
 INC2 PRD:
 Factory setting: OFF
 PGM1:
 Factory setting: ON
 PGM2:
 Factory setting: OFF

1-5. Instance of System Configuration



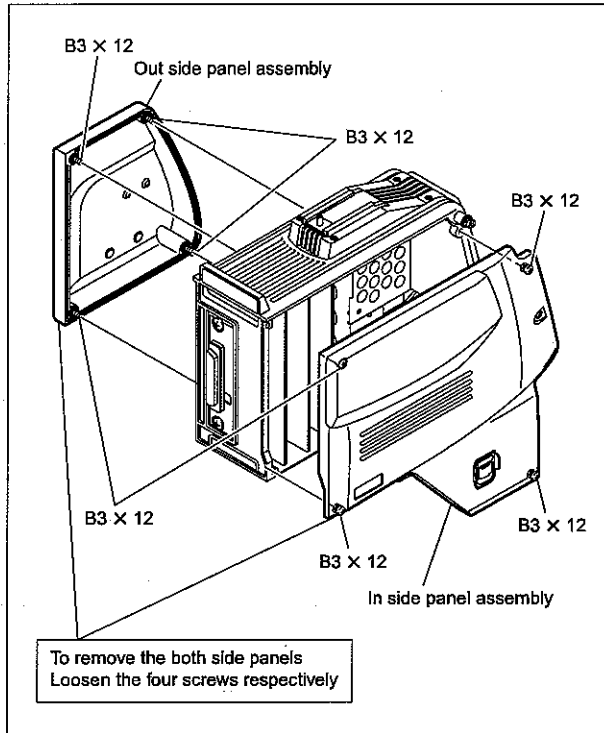
*1: TRIAX Cable length

Diameter	Maximum length	
	CCU-TX50	
8.5 mm	750 m	
14.5 mm	1500 m	

Diameter	Cable-length limitation for prompter signal transmission	
	CCU → CAM CAM → CCU	
	CCU → CAM	CAM → CCU
8.5 mm	300 m	300 m
14.5 mm	300 m	600 m

Section 2 Service Overview

2-1. Removing the Cabinet



2-2. Location of Printed Wiring Boards

