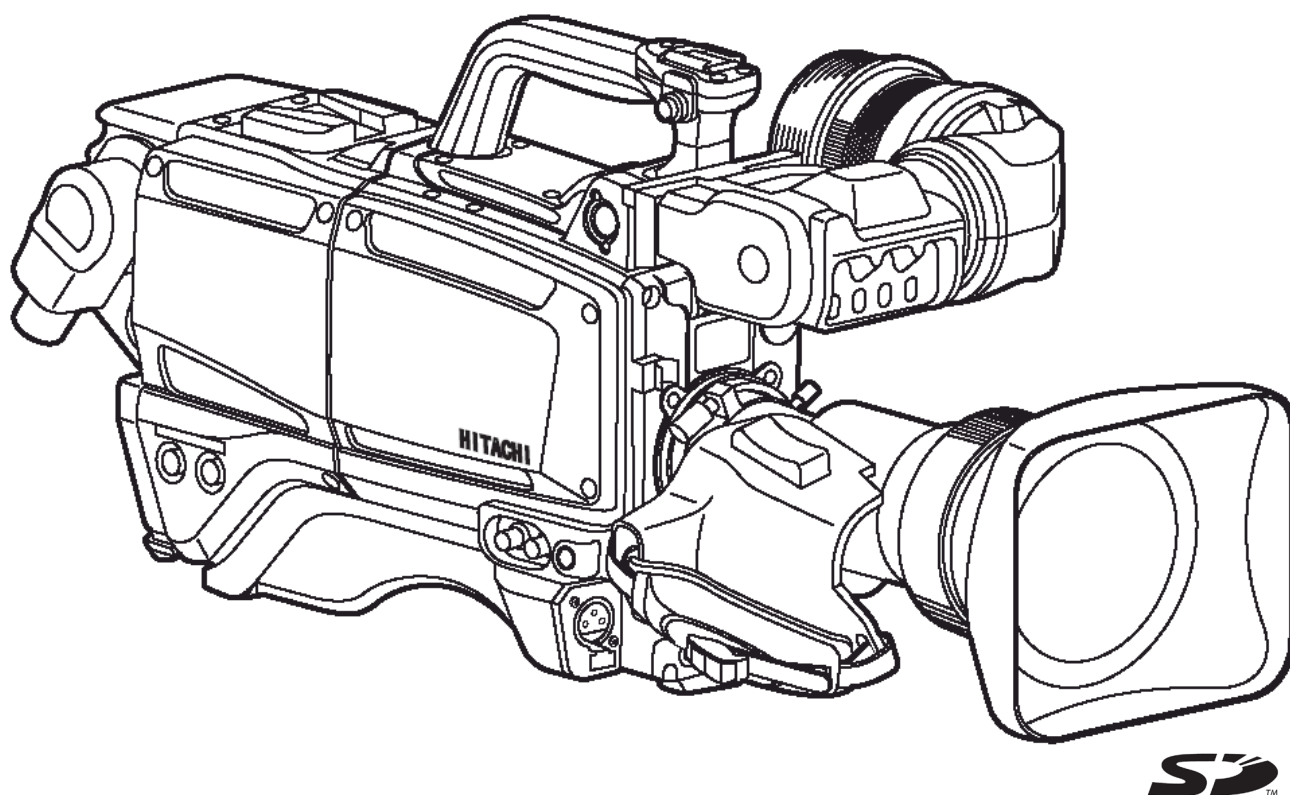


Additional Information

HITACHI

HD COLOR CAMERA
SK-UHD4000-S7

OPERATING INSTRUCTIONS



Please read these additional Information and operating instructions carefully for proper operation and keep them for future reference.

Hitachi Kokusai Electric Inc.

New Functions

The color camera SK-UHD4000-S7 has the additional new functions to the standard model by connection with the CU-UHD4000-S7.

- Various signal output formats are available from the camera head when on stand-alone operation.
1080p, 1080i, 720p, 29.97PsF (59.94Hz), 23.98PsF (59.94Hz) and 25PsF (50Hz)
- Return SDI output signal with embedded audio from the camera head.
The return signal with embedded audio is output from HD-SDI2 connector in the camera adaptor CA-UHF4000-S7.
- The following can be assigned as listening channels L, R, L+R on the camera person's headset earpieces.
 - INCOM Channel-1 / Channel-2
 - PGM Audio Channel-1 / Channel-2
 - Return SDI embedded Audio (Group-1 A/B).
- Optical level display
The operating optical levels of the camera head and CCU are display in the CHECK MENU.

These New Functions are available with the following version or later version.

CPU software version: V1.00C or later version.

VIDEO processor software version: V1.207 or later version.

CA-UHF4000-S7 software version: V4.000 or later version.

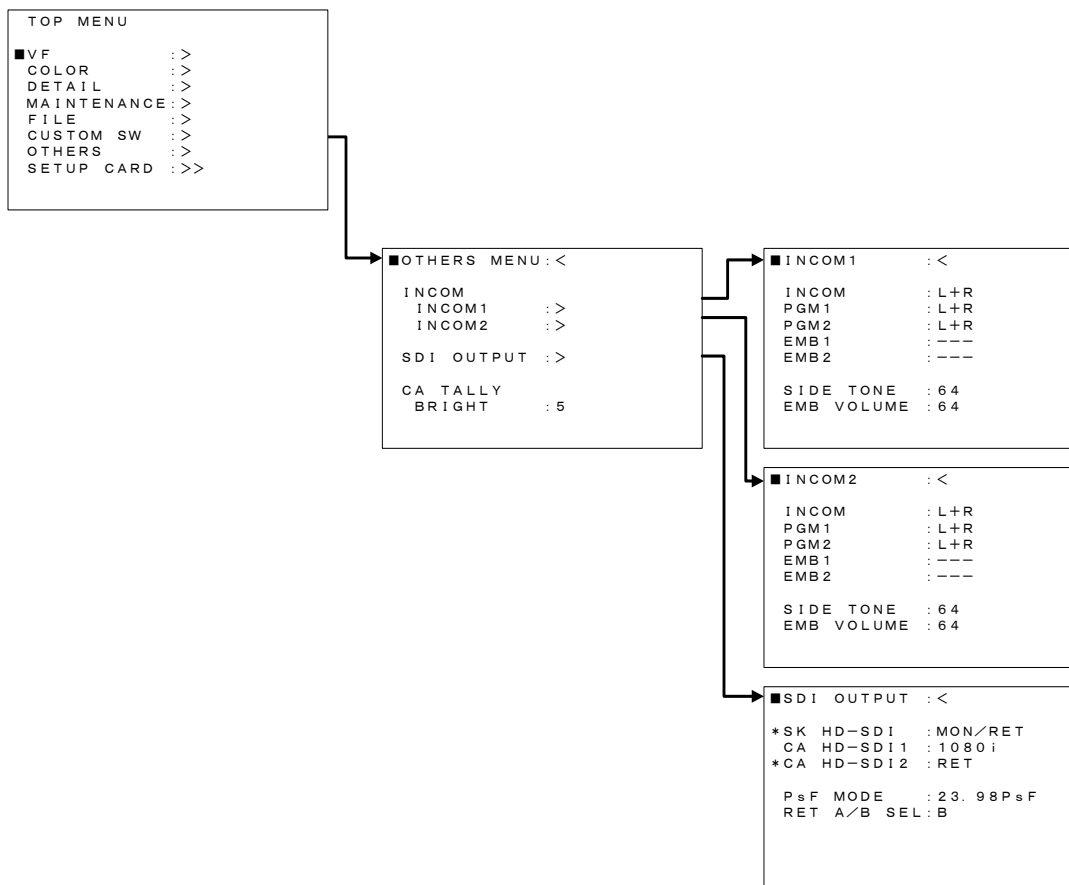
The software versions are displayed in CHECK2 menu page of the camera head.

Function menu

New functions are sets in the **OTHERS** and the optical level is indicated in the **CHECK screen** and the **viewfinder screen**..

1. OTHERS MENU

INCOM lines are assigned to a headset and CA output signals are set.



1.1 OTHERS MENU (main menu) & description

Item	Setting	Initial setting	Description
INCOM1			Moves to INCOM1 menu.
INCOM2			Moves to INCOM2 menu.
SDI OUTPUT			Moves to SDI OUTPUT menu
CA TALLY BRIGHT	1 to 10	5	Adjusts the brightness of TALLY lamp on Camera Adaptor.

Function menu

1.2 INCOM1 and INCOM2 menu (OTHERS sub menu) & description

■ INCOM1	: <
INCOM	: L+R
PGM1	: L+R
PGM2	: L+R
EMB1	: ---
EMB2	: ---
SIDE TONE	: 64
EMB VOLUME	: 64

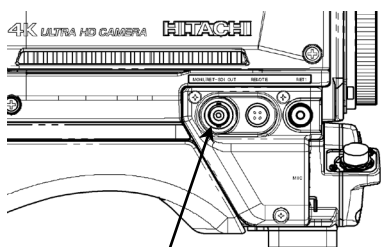
INCOM2 menu is same as INCOM1.

Requires embedded audio GROUP-1 Channels 1/2 to be input as return SDI at the CCU.

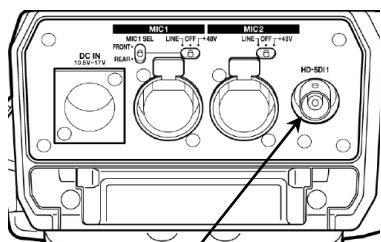
Item	Setting	Initial setting	Description
INCOM	---, L, R, L+R	L+R	Assigns INCOM listening line to a headset.
PGM1	---, L, R, L+R	L+R	Assigns PGM1 audio line to a headset.
PGM2	---, L, R, L+R	L+R	Assigns PGM2 audio line to a headset.
EMB1	---, L, R, L+R	---	Assigns the embedded audio channel 1 in the return signal to a headset.
EMB2	---, L, R, L+R	---	Assigns the embedded audio channel 2 in the return signal to a headset.
SIDE TONE	0 to 127	64	Adjusts INCOM1 side tone level.
EMB VOLUME	0 to 127	64	Adjusts the embedded audio level.

1.3 SDI OUTPUT menu (OTHERS sub-menu) & description

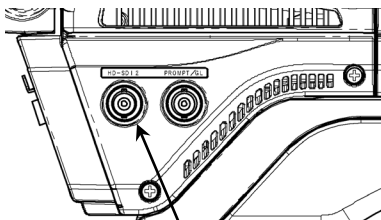
■ SDI OUTPUT	: <
*SK HD-SDI	: MON/RET
CA HD-SDI1	: 1080i
*CA HD-SDI2	: RET
P s F MODE	: 23.98 P s F
RET A/B SEL	: B



SK HD-SDI connector



CA HD-SDI1 connector



CA HD-SDI2 connector

• Stand alone operation

Item	Setting	Initial setting	Description
SK HD-SDI	MON/RET, 1080p, 1080i, 720p, 1080PsF	MON/RET	Sets SK HD-SDI format
CA HD-SDI1	1080p, 1080i, 720p, 1080PsF	1080i	Sets HD-SDI1 format.
CA HD-SDI2	1080p, 1080i, 720p, 1080PsF	1080i	Sets HD-SDI2 format
P s F MODE	[59.94Hz mode] 23.98PsF, [50Hz mode] 25PsF	[59.94Hz mode] 23.98PsF, [50Hz mode] 25PsF	Sets PsF(Segmented Frame) frequency, when setting SK HD-SDI or CA HD-SDI1/2 to 1080PsF
RET A/B SEL	—	—	Disable

• CCU operation

Item	Setting	Initial setting	Description
SK HD-SDI	MON/RET	MON/RET	Fixed MON/RET
CA HD-SDI1	1080p, 1080i, —	1080i	Sets CA HD-SDI1 format.
CA HD-SDI2	—	RET	Fixed RET
P s F MODE	—	—	Disable
RET A/B SEL	A, B	B	Selects from RET A and RET B. The return signal selected by RET SW in the CA is output when setting RET A. The return signal selected in CCU menu is output when setting RET B

Function menu

2. VF MENU

The operating optical receiver level of the camera head and CCU can be checked in CHECK screen.

CHECK screen

```
CS-1 SW      : ZEBRA
CA CS SW     : -----
LENS VTR     : TALK
HANDLE 1:RET-1 2:TALK
INCOM SW     : INCOM1
VIDEO CTEMP: 3200K
CAM OPT LEV: [■■■■]
CCU OPT LEV: [■■■■]
```

```
CS-1 SW      : ZEBRA
CA CS SW     : -----
LENS VTR     : TALK
HANDLE 1:RET-1 2:TALK
SA CS-1 SW   : MARKER1
SA CS-2 SW   : MARKER2
INCOM SW     : INCOM1
VIDEO CTEMP: 3200K
CAM OPT LEV: [■■■■]
CCU OPT LEV: [■■■■]
```

With no Studio Adaptor

With Studio Adaptor

Item	Description	
CAM OPT LEV	■■■■■,	■■■■■: normal1,
CCU OPT LEV	■■■■■,	■■■■■ : normal2,
	■■■	■■■ : Warning
	■,	■ : Alarm
Segment indicator is same as CCU LED optical indicators.		

The indicator digits of the optical level are same as the VF screen.