

SONY®

CAMERA OPERATING SOFTWARE

HZC-PSFP1

HZC-PRVP1

USER'S GUIDE English

1st Edition (Revised 2)

Overview

The HZC-PSFP1 and HZC-PRVP1 Camera Operating Software is optional software that enables the Sony HDC-P1 HD Multi Purpose Camera to support additional output formats.

The HZC-PSFP1 Camera Operating Software supports 1080/29.97PsF, 1080/25PsF, 1080/23.98PsF, and 1080/24PsF formats.

The HZC-PRVP1 Camera Operating Software supports 1080/59.94P and 1080/50P formats.

The following three formats are supported for 1080/59.94P and 1080/50P output.

- Dual Link (SDI 1: LINK-A, SDI 2: LINK-B)
- 3G-SDI LEVEL-A (SDI 1)
- 3G-SDI LEVEL-B (SDI 1)

Notes

- When using the HZC-PRVP1, check beforehand that the HDC-P1 HD Multi Purpose Camera software version is 1.14 or later and PLD version (DPR1, DPR2) is 1.03 or later.
- For HDC-P1 cameras with serial numbers 109999 and below, only the HD-SDI (Dual Link) format is available for 1080/59.94P and 1080/50P output.

Installation

1 Create a key file.

Create a text file that includes the software installation key and change the filename to “hdcpl.key.”

Note that the extension is “.key.”

Key file format

- You can describe multiple installation keys in a single key file (hdcpl.key). Invalid keys are ignored in the installation process.
- Describe only one installation key on a single line.
- Any description between “#” or “;” and the line break is read as a comment.

Example of hdcpl.key

```
# A Studio
# CAM1
c51caee92a3d1d77

# CAM2
2897f1db294d70ae

; Studio B
bd9dc931db917f25 ; CAM1
6fe3ebd3f4ba3635 ; CAM2
```

2 Copy the key file.

Create \MSSONY\PRO\CAMERA\HDCP1 folder on a “Memory Stick Duo” and copy “hdcpl.key” to that folder.

For information on usable types of “Memory Stick Duo,” refer to the OPERATION MANUAL of the camera.

3 Install the key file.

Insert the “Memory Stick Duo” into the “Memory Stick Duo” slot of the camera, and install the key file on the camera using the <OPTION KEY> page of the MAINTENANCE menu.

For details on menu operations, refer to the OPERATION MANUAL of the camera.

```

<OPTION KEY>      M22 TOP
  →READ (MS →CAM)
INSTALLED OPTION

```

When the key file is installed on the camera, the name of the installed key file appears in the <OPTION KEY> page's INSTALLED OPTION column. The illustrations below give an example of the indication when HZC-PSFP1 is installed. The indication will vary depending on the key file that you install.

Model	Indication
HZC-PSFP1	PsF ADDITION
HZC-PRVP1	1080P ADDITION

```

<OPTION KEY>      M22 TOP
  →READ (MS →CAM)
INSTALLED OPTION
  PsF ADDITION

```

4 Confirm the result of installation.

Restart the camera and check the OPTION display on the <SERIAL NO.> page of the DIAGNOSIS menu. When the installation is successfully completed, the OPTION column indicates the following:

```

<SERIAL NO.>      D06 TOP
MODEL: HDC-P1
NO   : 100001
OPTION:
  PsF ADDITION

```

HZC-PSFP1

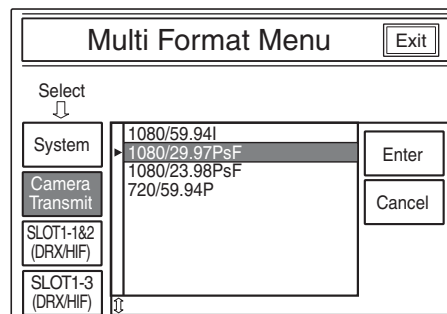
By installing HZC-PSFP1, in addition to 1080/59.94i, 1080/50i, 720/59.94P, and 720/50P formats, you can use 1080/29.97PsF, 1080/25PsF, 1080/23.98PsF, and 1080/24PsF formats.

To select a format, use the menu of the MSU (Master Setup Unit) when the camera is connected to the system, or use the menu of the camera when the camera is used on a stand-alone basis.

As an example, the following describes how to select 1080/29.97PsF format.

When the camera is connected to the system

Select "Camera Transmit" on the Multi Format Menu page of the MSU, then select "1080/29.97PsF."



For details on menu operations, refer to the OPERATION MANUAL of the MSU.

When the camera is used on a stand-alone basis

Select "29.97PsF" on the <OUTPUT FORMAT> page of the MAINTENANCE menu.

```

<OUTPUT FORMAT> M07 TOP
CURRENT
1080-59.94i    [4:2:2]

[1080]
  59.94i        50i
  →29.97PsF     25PsF
  23.98PsF      24PsF

[720]
  59.94P        50P

```

For details on menu operations, refer to the OPERATION MANUAL of the camera.

HZC-PRVP1

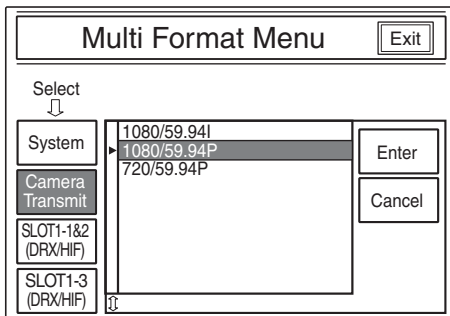
By installing HZC-PRVP1, in addition to 1080/59.94i, 1080/50i, 720/59.94P, and 720/50P formats, you can use 1080/59.94P and 1080/50P formats.

To select a format, use the menu of the MSU (Master Setup Unit) when the camera is connected to the system, or use the menu of the camera when the camera is used on a stand-alone basis.

As an example, the following describes how to select 1080/59.94P format.

When the camera is connected to the system

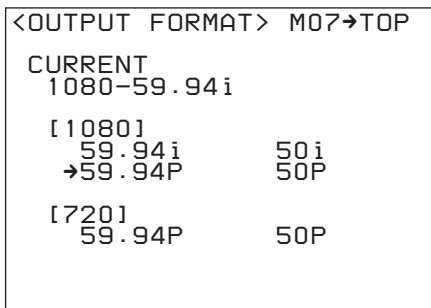
Select “Camera Transmit” on the Multi Format Menu page of the MSU, then select “1080/59.94P.”



For details on menu operations, refer to the *OPERATION MANUAL* of the MSU.

When the camera is used on a stand-alone basis

Select “59.94P” on the <OUTPUT FORMAT> page of the MAINTENANCE menu.



For details on menu operations, refer to the *OPERATION MANUAL* of the camera.

Notes

- The following functions are restricted when 1080/59.94P or 1080/50P is selected for OUTPUT FORMAT.

Menu page	Setting
M11 : <IMAGE INVERTER>	
H MIRROR	(OFF)
V MIRROR	(OFF)
DELAY MODE	(OFF)

- The following functions are restricted when 1080/59.94P or 1080/50P is selected for OUTPUT FORMAT and HD-SDI is selected for SDI OUT.

Menu page	Setting
02 : <VF MARKER>	(OFF)
03 : <VF DETAIL>	(OFF)
04 : <FOCUS ASSIST>	
INDICATOR	(OFF)
AREA MARKER	(OFF)
05 : <ZEBRA>	(OFF)
06 : <CURSOR>	(OFF)

Settings

Configuring the Camera Output

The video signal that is output from the unit can be configured in the menu.

Configuring SDI 1/2 output

When 1080/59.94P or 1080-50P is selected for OUTPUT FORMAT

Menu page and page number	Item	Setting	Output
<SDI OUT> M10	OUTPUT	HD-SDI	Dual Link (SDI 1: LINK-A, SDI 2: LINK-B)
		3G-SDI	3G-SDI (SDI 1) LEVEL A/B is configured with the "LEVEL" item.
	LEVEL	LEVEL A	3G-SDI (SDI 1) LEVEL-A
		LEVEL B	3G-SDI (SDI 1) LEVEL-B

Note

- When 3G-SDI is selected, the SDI 2 output will be in HD-SDI format.
- 3G-SDI can be selected for HDC-P1 cameras with serial numbers 110001 and above.
HD-SDI (Dual Link) and SD-SDI can be selected for units with serial numbers 109999 and below.

When a format other than 1080/59.94P or 1080-50P is selected for OUTPUT FORMAT

Menu page and page number	Item	Setting	Output
<SDI OUT> M10	OUTPUT	HD-SDI	HD-SDI (SDI 1/SDI 2)
		SD-SDI	SD-SDI (SDI 1/SDI 2)

Notes

- The settings are applied to both SDI 1 and SDI 2.
- The SDI outputs are used for SDI 1=MAIN and SDI 2=MONITOR respectively, and OSD can only be

displayed for SDI 2.

However, when 1080/59.94P or 1080-50P is selected for OUTPUT FORMAT and HD SDI (DUAL LINK) is selected for SDI OUT, OSD will be displayed for both the SDI 1 and SDI 2 outputs depending on the DISPLAY/MENU switch setting.

External Synchronization Signals and Formats that can be Input to the GENLOCK IN Connector

HD signals (tri-level sync) and SD signals (Black Burst) are supported.

The external synchronization signals and formats that are supported for each format are as follows.

OUTPUT FORMAT	GENLOCK IN	
	HD signal	SD signal
1080/59.94i	1080/59.94i	NTSC (Black Burst)
1080/29.97PsF		
1080/59.94P		
1080/23.98PsF	1080/23.98PsF	—
720/59.94P	720/59.94P	NTSC (Black Burst)
1080/50i	1080/50i	PAL (Black Burst)
1080/25PsF		
1080/50P		
1080/24PsF	1080/24PsF	—
720/50P	720/50P	PAL (Black Burst)

