

Production Control Software

Installation Guide

Software Version 2.4

PWA-PRC1

NOTICE TO USERS

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Table of Contents

Overview	5
Operating Environment	6
Required Equipment	6
Preparation	7
Attaching MSQ-S321 (pre-installed in the PWS-100PR1/PWS-110PR1)	8
Updating the MSQ-S321 Driver and Firmware	8
Installing the PWSK-4403 Driver (pre-installed in the PWS-100PR1/PWS-110PR1)	8
Settings When Using Two PWSK-4403 Panels	9
Configuring PRC Manager	10
Configuring Share Play Usage	11
Configuring the PWS-4500	12
Configuring the BPU4800	17
Configuring the PC	19
Taskbar Settings	19
Multi-Language Input Settings	19
Settings for Archiving/Retrieving Playlist and Cut Out Data	20
Settings for using Submonitors	23
Connections	24
2IN/2OUT (4K) with 10GbE Network	24
3IN/1OUT (4K) with 10GbE Network	25
1IN/1OUT (4K) with 10GbE Network, without PWSK-4504	26
2IN/2OUT (HD) with 1GbE Network, without PWSK-4504	27
2IN/1OUT (HD) with 1GbE Network, without PWSK-4504	28
6IN/2OUT (HD) with 1GbE Network, without PWSK-4504	29
4IN/2OUT (HD) with 1GbE Network	30
6IN/1OUT (HD) with 1GbE Network	31
HFR 2IN/1OUT (4K 2x) with 10GbE Network	32
HFR 1IN/2OUT (4K 2x) with 10GbE Network	33
HFR 5IN/2OUT (HD 4x, 3x, 2x) with 1GbE Network	34
HFR 4IN/2OUT (HD 4x, 3x, 2x) with 1GbE Network	35
HFR 3IN/2OUT (HD 4x, 3x, 2x) with 1GbE Network	36
HFR 3IN/2OUT (HD 8x, 6x) with 1GbE Network	37
HFR 3IN/1OUT (HD 8x, 6x) with 1GbE Network	38
HFR 2IN/2OUT (HD 8x, 6x) with 1GbE Network	39
Cut Out with 10GbE Network (for MSQ-S321 1pc)	40
Cut Out with 10GbE Network (for MSQ-S321 2pcs)	41
HFR + Cut Out with 10GbE Network (for MSQ-S321 1pc)	42
Cut Out with 10GbE Network, without PWSK-4504	43

BPU4800 Replay Port, Replay Port + XAVC Transcode Port.....	44
BPU4800 XAVC Transcode Port, Replay Port + XAVC Transcode Port	45
BPU4800 HD Cut Out Port	46
Connection for using Share Play Function.....	47
Submonitor Connections	48
Network Cable	49
SDI Input/Output.....	49
Installation	52
Installing	52
To uninstall	52
Starting and Exiting Program	53
Starting PRC Manager.....	53
Starting PWA-PRC1	54
Exiting PWA-PRC1	54
About Authentication	55
Executing Authentication.....	55
Setting.....	56
Displaying the Settings Screen	56
Configuration Items	56
Appendix.....	59
Trademarks.....	59

Overview

PWA-PRC1 Production Control Software is application software to control the PWS-4500 Multiport AV Storage Unit and BPU4800 Broadband Processor Unit, play-out live video at slow speeds, and manage clips/playlists.

This document explains installation of PWA-PRC1, and the necessary settings and connections to use PWA-PRC1.

The intended audience for this documentation is engineers who perform system integration and installation.

Operating Environment

Required Equipment

To use PWA-PRC1, the following equipment is required.

- PWS-100PR1, PWS-110PR1, or PWS-100MG1
- PWS-4500 Multiport AV Storage Unit, or
BPU4800 Broadband Processor Unit
- PWSK-4403 USB control device (up to two devices can be connected)
- MSQ-S321 XAVC 4K/HD codec card (pre-installed in the PWS-100PR1/PWS-110PR1)

Note

MSQ-S321 uses the Source Code of T-Kernel 2.0 under T-License 2.0 granted by T-Engine Forum (www.t-engine.org).

The following are optional equipment for file transfer and/or archive.

- PWA-MGW1 media gateway software
- PWS-100MG1 Media Gateway Station (with PWA-MGW1 installed)

Obtain the following adapters if a DisplayPort-to-HDMI adapter or DisplayPort-to-DVI adapter is required when connecting the main display.

- DisplayPort → HDMI adapter: StarTech.com DisplayPort to HDMI Active Adapter
- DisplayPort → DVI adapter: XFX MA-AP01-PD1K Active DisplayPort to DVI Adapter

For touch panel operation, prepare the following display.

- Dell S2240T

Submonitors can be used to display the settings and control status of each operation panel.

Recommended submonitor devices:

- ADTECHNO CL5585H
- Sony CLM-V55 Clip-on LCD Monitor

Use with the following AC adaptor.

AC-PW10AM

Notes

- Use the same model submonitor if using two submonitors.
- Obtain the USB external graphic adapter if using second submonitor.

Tested USB external graphic adapter:

- I-O DATA USB-RGB3/H
- StarTech.com USB32HDES Slim USB3.0 to HDMI External Video Card Multi Monitor Adapter

Preparation

Note

User's Guide, Installation Guide, Release Note are installed below in PWS-100PR1/PWS-110PR1.

C:\ProgramData\Sony\Documents\PWA-PRC1

PWA-PRC1 Software Package

Package Name: Sony_PWA-PRC1_(version)_package.zip

Copy the above file, which is downloaded from the eCSite to an arbitrary directory and extract the file there.

The following files are contained in Sony_PWA-PRC1_(version)_package.zip.

- PWA-PRC1 Installer : Sony_PWA-PRC1_(version).exe
- PWSK-4403 Driver : pwsk-4403_drv.zip
- MSQ-S321 Installer : Sony MSQ-S321_2BS PWS-100 PWS-300_(version).msi
- User's Guide (Japanese) : PWA-PRC1_UG_(version)_JP.pdf
 - (English) : PWA-PRC1_UG_(version)_GB.pdf
 - (Chinese) : PWA-PRC1_UG_(version)_CS.pdf
- Installation Guide (Japanese) : PWA-PRC1_IG_(version)_JP.pdf
 - (English) : PWA-PRC1_IG_(version)_GB.pdf
- Release Note (Japanese) : ReleaseNotes_PWA-PRC1_(version)_ja.pdf
 - (English) : ReleaseNotes_PWA-PRC1_(version)_en.pdf

Notes

- PWA-PRC1 does not support the sleep mode of PC. Do not let PC go to sleep while operating PWA-PRC1.
- Use the same Video Format and Timecode drop-frame mode settings for devices in a system.

Attaching MSQ-S321 (pre-installed in the PWS-100PR1/PWS-110PR1)

Attach MSQ-S321 if installing PWA-PRC1 in PWS-100MG1 device.

1. Install the MSQ-S321 board in the top slot of the PWS-100MG1.

Refer to the PC and MSQ-S321 service manual for details on installation and associated notes.

2. Install the MSQ-S321 device driver.

Refer to MSQ-S321's service manual for details on installation.

Note

Two MSQ-S321 boards are installed in the PWS-100PR1/PWS-110PR1.

Board No.	Mounting slot	Board ID (DIP switch S4002 settings)
Board 1	Lower	0 (Bits 1 to 4 are Off)
Board 2	Upper	1 (Bit 1 only is On)

Updating the MSQ-S321 Driver and Firmware

Use the following procedure if you need to update the driver and firmware of the MSQ-S321.

1. Double-click the Sony MSQ-S321 PWS-100 PWS-300_(version).msi installer, and follow the on-screen instructions for installation.
2. Shut down the PC (use "Shutdown," not "Restart").
3. Start the PC.

Installing the PWSK-4403 Driver (pre-installed in the PWS-100PR1/PWS-110PR1)

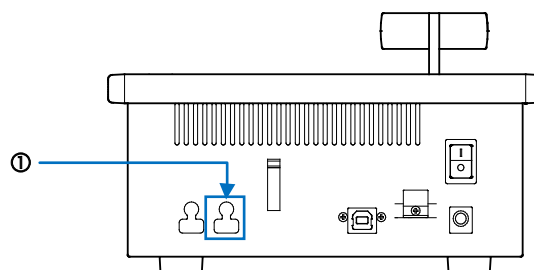
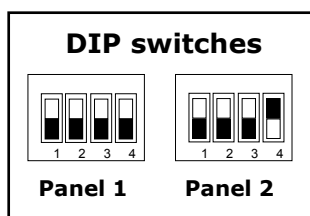
1. Connect between PWSK-4403 and PC with a USB cable.
2. Turn on PWSK-4403.
3. Decompress PWSK-4403 Driver file (pwsk-4403_drv.zip).
4. Open [Device Manager], and then click [Other devices].
5. Right-click [Unknown device], and then click [Update Driver Software...].
6. On the [Update Driver Software] window, click [Browse my computer for driver software].
7. On the [Browse For Folder] window, select the "\\pwsk-4403_drv\\package" folder and click [OK].
8. Click [Next].
9. On the [Windows Security] window, click [Install].
Driver installation starts.
10. On the [Device Manager] window, click [Universal Serial Bus Controller], and check to see "Sony Control Device Panel (version)" is recognized correctly.

Settings When Using Two PWSK-4403 Panels

Configure the following settings when using two PWSK-4403 panels.

1. Remove the cap ① from the rear of the PWSK-4403.
2. Set the DIP switches as follows.

PWSK-4403	DIP switches	
	Bit 3	Bit 4
Panel 1	OFF	OFF
Panel 2	OFF	ON



PWSK-4403 rear view

Note

If the PWSK-4403 connection is changed after starting PWA-PRC1, click [Update] under [GUI and Panel links] on the Settings screen of PWA-PRC1.

For details about the Settings screen of PWA-PRC1, refer to the User's Guide.

Configuring PRC Manager

PRC Manager software is included with PWA-PRC1. PRC Manager is software that manages the PWS-4500/BPU4800 devices, PWA-PRC1, and PWA-MGW1 on a network without using an operation screen.

Only one PRC Manager instance must be running on a network, regardless of whether there is only one PWA-PRC1 or multiple PWA-PRC1 installations on the same network.

Note

If both PWA-PRC1 and PWA-MGW1 are on the same network, do not use PRC Manager on the PWA-MGW1.

To perform management functions using PRC Manager, the PWS-4500/BPU4800 and PWA-MGW1 must have the following settings.

PWS-4500/BPU4800 settings

Click [System] – [Network], and configure the following settings in [PRCM Setting] on the displayed screen.

Item	Setting
Port Number	50000
PRCM 1 Connection	Enable
PRCM 1 IP Address	IP address of PC on which PRC Manager is installed

PWA-MGW1 settings

Click [Settings] – [PRC Manager] – [PRC Manager List] – [Add], and configure the following settings on the displayed screen.

Item	Setting
IP Address	IP address of PC on which PRC Manager is installed
Port Number	51000

PWA-PRC1 settings

If using an NMI and Share Play, different settings for PTP domain are required. If the settings need to be changed, change the PTP domain setting in [Settings] – [System] – [PRC manager].

Configuring Share Play Usage

The following configuration is required in order to use the PWA-PRC1 Share Play function.

PWS-4500/BPU4800 settings

Click [System] – [Share Play], and configure the following settings in [Share Play Network Setting] – [Primary] on the displayed screen.

Item	Setting
IP Address	IP address for Share Play
Subnet Mask	255.255.255.0

Click [System] – [Share Play], select the format to use in [Share Play Video Format] and configure the following settings on the displayed screen.

Item	Setting
Share Play Tx:Rx Setting	<p>Set to the following according to the set value of [Maximum Tx Number].</p> <p>2:2 (if [Maximum Tx Number] is 2 or higher)</p> <p>1:3 (if [Maximum Tx Number] is 1)</p> <p>0:4 (if [Maximum Tx Number] is 0)</p> <p>To play network clips in a playlist directly, the following settings are required.</p> <p>For 1PGM</p> <p>Local server: 2:2</p> <p>Network server: 2:2</p> <p>For 2PGM</p> <p>Local server: 1:3</p> <p>Network server: 3:1</p>

Configuring the PWS-4500

1. Configure the PWS-4500 Port A through Port D settings, according to the PGM mode used by PWA-PRC1.

When each condition is selected in the following figure (①), select the desired settings from the enabled I/O configurations.

Refer to the PWS-4500 Operation Manual for details on port settings.

Note

PWA-PRC1 does not support 1-IN, 2-IN, 3-IN, 4-IN, 2-OUT, 3-OUT, 4-OUT, 1-IN 3-OUT, 2-IN 3-OUT, and 8-IN configurations as the local server.

The screenshot shows the 'Board Setting' configuration interface for the PWS-4500. The interface is divided into several steps: Step 1 (Frequency + VQ), Step 2 (Port Type), Step 3 (Port Codec), Step 4 (Port Configuration), Step 5 (Remote), and Step 6 (Send Firm). The current step is Step 2, 'Port Type', which is further divided into 'Select Recommended Solution' and 'Definition of Port Type'.

In the 'Select Recommended Solution' section, there is a 'Select Condition' section highlighted by a red box. This section contains several radio button options for Codec, Pixel and FPS, HD Cut Out, and Preview Control. A red circle with the number 1 points to this section.

The 'Definition of Port Type' section shows a table of configurations for different codecs and port types. The table is organized into three columns: XAVC, Avid DNxHD(R), and Apple ProRes. Each column lists various port types and their corresponding configurations.

The 'Select a Combination of Port Type' section shows a grid of port configurations for Port A, Port B, Port C, and Port D. The grid is organized into five columns: 4-IN, 3-IN 1-OUT, 2-IN 2-OUT, 1-IN 3-OUT, and 4-OUT. Each cell in the grid contains a radio button and a label indicating the port type (Input or Output).

Port	4-IN	3-IN 1-OUT	2-IN 2-OUT	1-IN 3-OUT	4-OUT
Port A	Input	Input	Input	Input	Output
Port B	Input	Input	Output	Output	Output
Port C	Input	Input	Input	Output	Output
Port D	Input	Output	Output	Output	Output

2. Configure each port.

Note

PWA-PRC1 may not function properly if the following settings are not correctly made. Be sure to make the following settings.

- Make the same Video Format settings for each port.
- In Cut Out mode, make the same Format settings for PortD: Output and [Monitor Out].
- In Cut Out mode, make the same settings for [Monitor Out] for each port.
- In modes other than Cut Out mode, set [Monitor Out] to "xxp to xxI & HD-SDI" (where "xx" is the resolution) where available.

Board Setting Step 1: Frequency + I/O Step 2: Port Type Step 3: Port Codec Step 4: Port Configuration Step 5: Remote Step 6: Send Form

Common Settings

If you have set common settings of SDI Type, each port settings of SDI Type will be selected by priority.

SDI/NMI Type for Cable: ☐ HD-SDI ☐ 3G-SDI (Level A) ☒ 3G-SDI (Level B)

SDI/NMI Type for QFHD/4K: ☒ Square Division ☐ 2-Sample Interleave Division

SDI Type for 2x mode: ☒ Aligning with Horseshoe-shape Field ☐ Aligning with Field

Monitor Out: ☒ HD-SDI ☐ 3G-SDI (Level A) ☐ 3G-SDI (Level B)

Port A-1: Input: HD with 1x - 4x fps, 4K with 1x fps, Sub Recording

XAVC	HD: 1280 x 720 YPbPr 4:2:2 10bit	HD: 1920 x 1080 YPbPr 4:2:2 10bit	QFHD: 3840 x 2160 YPbPr 4:2:2 10bit		4K: 4096 x 2160 YPbPr 4:2:2 10bit	
	Class 100	Class 100	Class 300	Class 480	Class 300	Class 480
59.94i						
59.94i 2x						
59.94i 3x						
59.94i 4x						
29.97PsF						
29.97p						
59.94p						
59.94p 2x						
59.94p 3x						
59.94p 4x						

Next: 59.94p QFHD: 3840 x 2160 YPbPr 4:2:2 10bit XAVC Class 300

SDI/NMI Type for Cable: ☐ HD-SDI ☐ 3G-SDI (Level A) ☒ 3G-SDI (Level B)

SDI/NMI Type for QFHD/4K: ☒ Square Division ☐ 2-Sample Interleave Division

SDI Type for 2x mode: ☐ Aligning with Horseshoe-shape Field ☐ Aligning with Field

Monitor Out: ☒ 59.94p to 59.94i & HD-SDI ☐ 59.94p & 3G-SDI (Level A) ☐ 59.94p & 3G-SDI (Level B)

Sub Recording: ☒ Off ☐ Using Internal Signal ☐ Using External Interface

Sub Recording Configuration:

Port B-1: Output: HD and 4K

XAVC	HD: 1280 x 720 YPbPr 4:2:2 10bit	HD: 1920 x 1080 YPbPr 4:2:2 10bit	QFHD & 4K to QFHD: 3840 x 2160 YPbPr 4:2:2 10bit		4K: 4096 x 2160 YPbPr 4:2:2 10bit	
	Class 100	Class 100	Class 300	Class 480	Class 300	Class 480
59.94i						
59.94p to 59.94i						
29.97PsF						
29.97p						
59.94p						

Next: 59.94p QFHD & 4K to QFHD: 3840 x 2160 YPbPr 4:2:2 10bit XAVC Class 300

SDI/NMI Type for Cable: ☐ HD-SDI ☐ 3G-SDI (Level A) ☒ 3G-SDI (Level B)

SDI/NMI Type for QFHD/4K: ☒ Square Division ☐ 2-Sample Interleave Division

SDI Type for 2x mode: ☐ Aligning with Horseshoe-shape Field ☐ Aligning with Field

Monitor Out: ☒ 59.94p to 59.94i & HD-SDI ☐ 59.94p & 3G-SDI (Level A) ☐ 59.94p & 3G-SDI (Level B)

Sub Recording: ☒ Off ☐ Using Internal Signal ☐ Using External Interface

Sub Recording Configuration:

- Set [Chunk File] of the input port to "24H".
- TC to Input shall be in synchronization. Set [TCG Source] of the input port to "Master TC".
- Configure the correct [DF mode] for each input/output port. Do not mix DF and NDF settings.

Note

Correct operation will not occur if a TC jump exists in the recorded file.

The screenshot shows a software interface with a top navigation bar containing 'Home', 'Status', 'System', 'Port', 'File', 'Storage', 'Maintenance', and 'SNMP'. Below this is a sub-menu bar with 'Common', 'Port A-1', 'Port B-1', 'Port C-1', and 'Port D-1'. The main content area is titled 'Board A: Input: HD with 1x - 4x fps, 4K with 1x fps, Sub Recording'. Under 'Port A-1', there are buttons for 'IN' (QFHD) and 'FILE' (QFHD). Below this, it says 'Next: CAM1'. There are two 'CLOSE' buttons, each followed by video specifications: '59.94p 3840x2160 YPbPr 4:2:2 10bit XAVC' and '59.94p 3840x2160 YPbPr 4:2:2 10bit XAVC Class 300'. A large table follows, with columns for TR (1-16) and CH (1-16), each with an 'SDI' label below. Below the table is an 'Option' section with dropdown menus for 'Remote 9pin' (Off), 'Remote 25pin' (Off), and 'Chunk File' (24H). There are also 'User Specified Name' fields for 'CAM1' and a '- Template -' dropdown, followed by 'Submit' and 'Cancel' buttons. At the bottom, a 'TC' section is highlighted with a red box. It contains a 'TC Setup' area with dropdowns for 'TCG Source' (Master TC), 'REGENE Source' (TC & UB), 'RUN Mode' (Free Run), 'DF Mode' (DF), and 'TC OUT' (Regene). Below this is a 'Timer Select' dropdown (TC) and a 'Timer Set: Disabled' section with four buttons and 'Set' and 'Reset' buttons.

Home Status System **Port** File Storage Maintenance SNMP

Common Port A-1 Port B-1 Port C-1 Port D-1

Board A: Input: HD with 1x - 4x fps, 4K with 1x fps, Sub Recording

Port A-1 **IN** QFHD → **FILE** QFHD

Next: CAM1

CLOSE **IN** 59.94p 3840x2160 YPbPr 4:2:2 10bit XAVC
CLOSE **FILE** 59.94p 3840x2160 YPbPr 4:2:2 10bit XAVC Class 300

TR 1	TR 2	TR 3	TR 4	TR 5	TR 6	TR 7	TR 8	TR 9	TR 10	TR 11	TR 12	TR 13	TR 14	TR 15	TR 16
CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8	CH 9	CH 10	CH 11	CH 12	CH 13	CH 14	CH 15	CH 16
SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI

Option:

Remote 9pin Off Off

Remote 25pin Off Off

Chunk File 24H 24H

User Specified Name CAM1 CAM1 - Template - Submit Cancel

TC

TC Setup

TCG Source Master TC Master TC

REGENE Source TC & UB TC & UB

RUN Mode Free Run Free Run

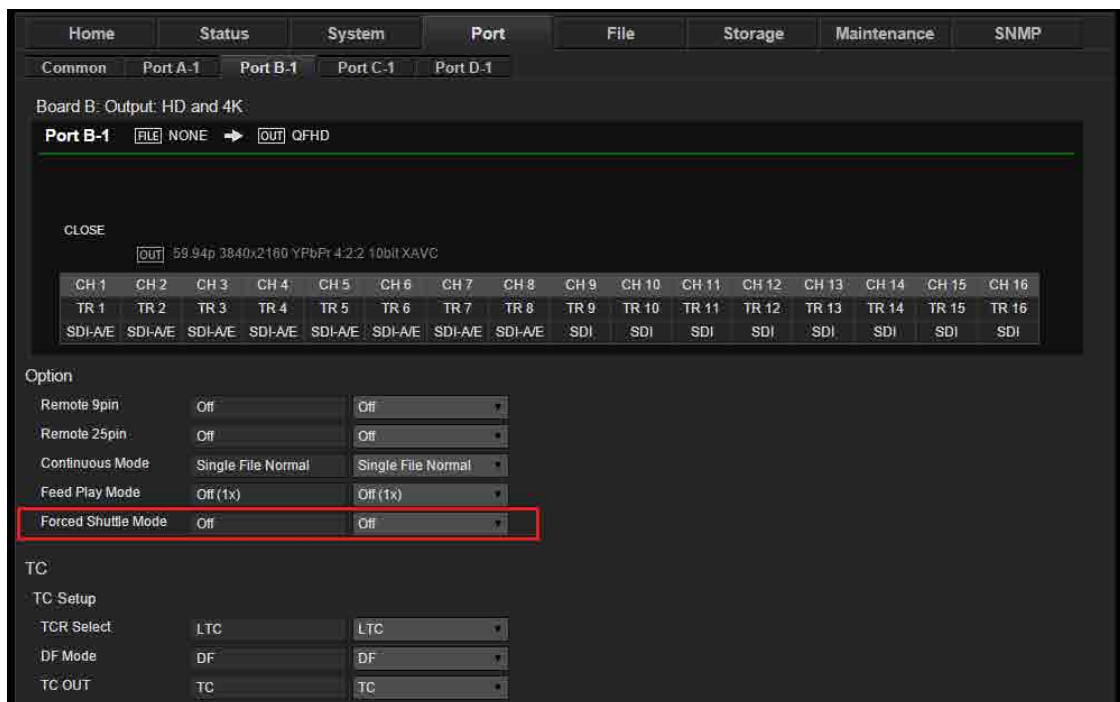
DF Mode DF DF

TC OUT Regene Regene

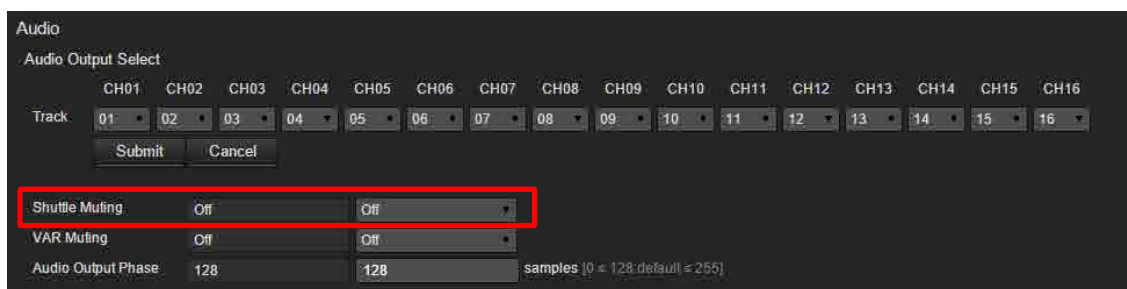
Timer Select TC TC

Timer Set: Disabled -- -- -- -- Set Reset

- Set [Forced Shuttle Mode] of the output port to "Off".



- Set [Shuttle Muting] of the output port to "On".



- When using Cut Out mode, set [Time Shifted Play] to "From Storage Only".

The screenshot shows the 'System Parameters' configuration page. The 'Time Shifted Play' setting is highlighted with a red box and is set to 'From Storage Only'. Other settings include Reference Source (Input Port A-1), Preroll Time (5 sec), Rec Inhibit (Off), Frame PB Mode (Field), Freeze PB Mode (Field1), Record File Naming (FILE + Sequential), File Delete Mode (Inhibit), Front LED Mode (On), QFHD/4K SDI with TC (SDI-1 Only), Output Port SDI-1,2,3,4 (On), No Video Output Signal (Gray), Control Inhibit (Off), Automatic Start (Off), Master TC (Internal-Preset), REGENE Source (TC & UB), and DF Mode (DF).

- When recording using Loop Recording, set all recording ports on the PWS-4500 to the same settings.

Note

If the port settings are changed, reconfigure [Create Loop Recording Area].

The screenshot shows the 'Create Loop Recording Area' configuration page. The 'Port A-1' and 'Port C-1' sections are highlighted with a red box. Both ports are assigned to '59.94p 3840x2160 YPbPr 4:2:2 10bit XAVC Class 300' and 'Memory Board: 6/16 - Size: 676 GB - Time: About 02 h 15 min'. The 'Area Information' for Port A-1 is 'Area 1' and for Port C-1 is 'Area 2'. The 'Submit' and 'Cancel' buttons are visible at the bottom of the highlighted section.

Configuring the BPU4800

Configure the input/output ports of the BPU4800.

The following four methods are supported for using ports.

Port	Description
Replay Port	Set when using as the PWA-PRC1 local server for replay control. It can also be used as a network server for Share Play connection. Clips created on the BPU4800 cannot be transferred to an external device.
XAVC Transcode Port	Set when using as a network server for Share Play connection. Clips created on the BPU4800 can be transferred to an external device. Cannot be used as the local server.
HD Cut Out Port	Set when using as the PWA-PRC1 local server for Cut Out operation. It can also be used as a network server for Share Play connection. Clips created on the BPU4800 cannot be transferred to an external device.
Replay Port + XAVC Transcode Port	This setting is selected automatically if the format is HD. It enables replay control and transcoding to XAVC files.

The playback port method selection is configured using the [Replay Port + XAVC Transcode Port] setting in the web menu of the BPU4800.

Board Setting Step 1. Port Configuration Step 2. Send Form

System Frequency
☐ 25Hz ☒ 29.97Hz

Replay Port + XAVC Transcode Port

Replay Port
 XAVC Transcode Port: 59.94p QFHD: 3840x2160
 HD Cut Out Port

HFR Data Record Port

HFR Data	HD: 1920 x 1080 16bit	QFHD: 3840 x 2160 16bit
59.94p 4x	<input type="radio"/>	<input type="radio"/>
59.94p 8x	<input type="radio"/>	<input checked="" type="radio"/>
59.94p 16x	<input type="radio"/>	<input type="radio"/>

Current 59.94p 8x QFHD: 3840 x 2160 16bit HFR Data

Replay Port

HFR Data	HD: 1920 x 1080 to HD: 1280 x 720 16bit	HD: 1920 x 1080 16bit	QFHD: 3840 x 2160 16bit
59.94p to 59.94i	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
59.94p	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Slot 1 Configuration 59.94p QFHD: 3840 x 2160 HFR Data 3G-SDI (Level B) SQD

Slot 2 Configuration 59.94i HD: 1920x1080 HD-SDI

Slot 3 Configuration 59.94i HD: 1920x1080 HD-SDI

Back Next Cancel

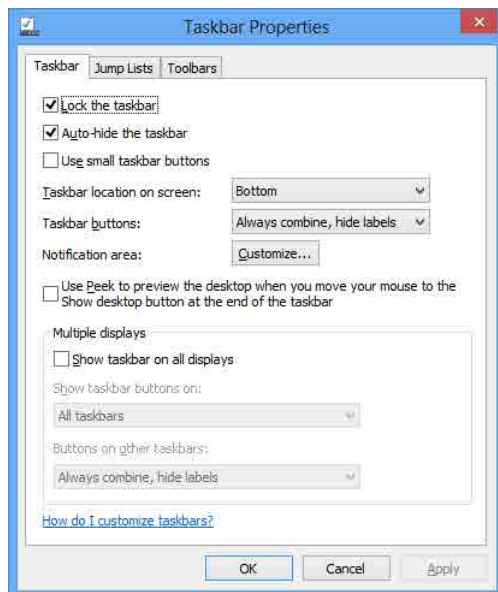
Notes

- When HD Cut Out Port is selected, make sure the Format of the slot used for connection with the PWS-100PR1/PWS-110PR1 is the same as the Format of Slot 1 Replay (Slot 1 is set using the web menu, and the slot used for PWS-100PR1/PWS-110PR1 connection is set using the BPU menu).
- Set each port to the correct [DF Mode] setting. Do not mix DF and NDF settings.
- Set the [Forced Shuttle Mode] setting of the Replay port to [Off].
- When HD Cut Out Port is selected, set [Time Shifted Play] to [From Storage Only].

Configuring the PC

Taskbar Settings

1. Right-click the taskbar and select [Properties].
2. In the [Taskbar Properties] dialog, turn [Auto-hide the taskbar] on.
3. If using a submonitor, turn [Show taskbar on all displays] off under [Multiple displays].



Multi-Language Input Settings

PWA-PRC1 supports English, Japanese, and Chinese character input. To enter clip names, playlist names, and server names in a language other than English, configure the following settings.

1. Select [Control Panel] – [Language].
2. Click [Add Language].
3. Select the language to add.
For example, to enter text in Japanese, select “Japanese”.
4. Click the [Add] button.
5. Repeat steps 3 and 4 to add any additional languages.

To switch the input language

Press the Windows + space key combination. The languages added above appear in a menu. Select a language to change the input language.

Settings for Archiving/Retrieving Playlist and Cut Out Data

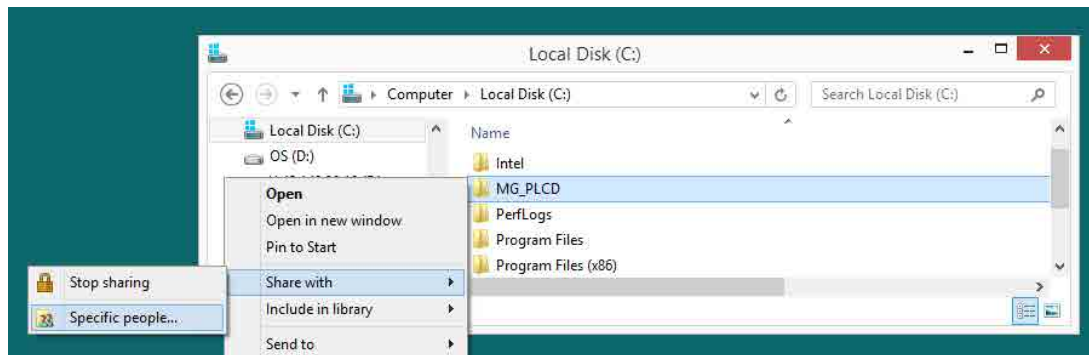
Shared folder settings are required when archiving playlist and cut out data created using PWA-PRC1, and when retrieving from the PWA-MGW1 service.

1. PWA-MGW1 shared folder settings

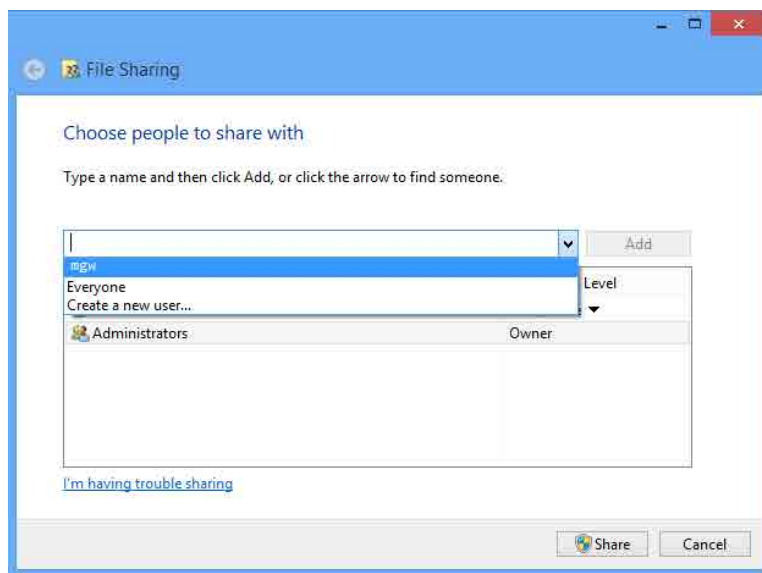
- (1) Right-click the C:\MG_PLCD folder on the PC on which PWA-MGW1 is installed, and select [Share with] → [Specific people...].

Note

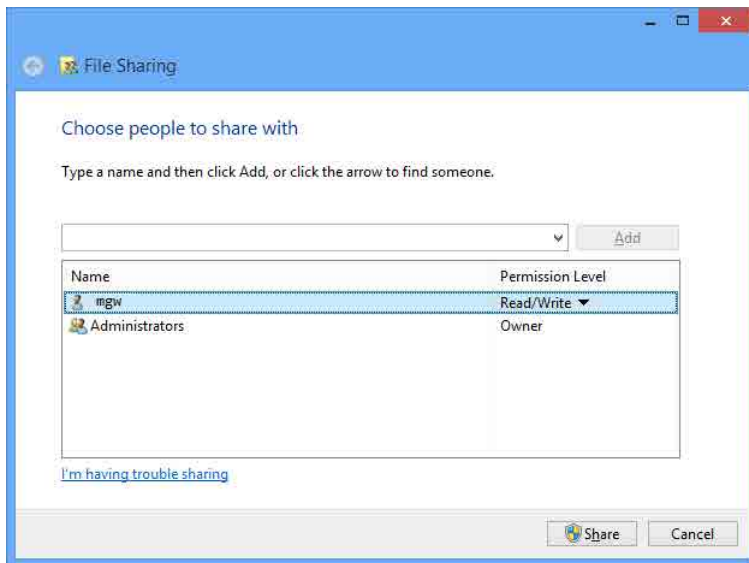
The “MG_PLCD” folder is created when PWA-MGW1 starts.



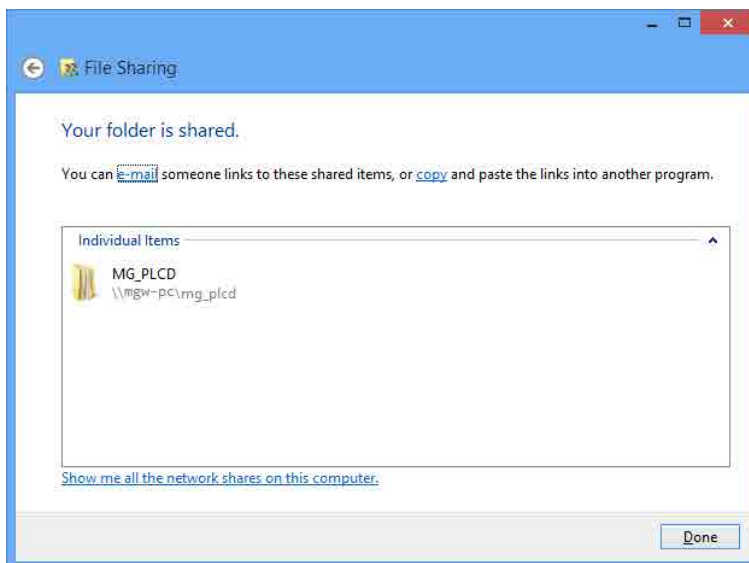
- (2) In the [File Sharing] dialog, select the account to permit sharing, and click the [Add] button.



- (3) Set [Permission Level] to "Read/Write."
- (4) Click the [Share] button.



- (5) Check the setting in the confirmation dialog, and click the [Done] button.
The "MG_PLCD" folder becomes shared.



2. Access credentials on the PC running PRC Manager

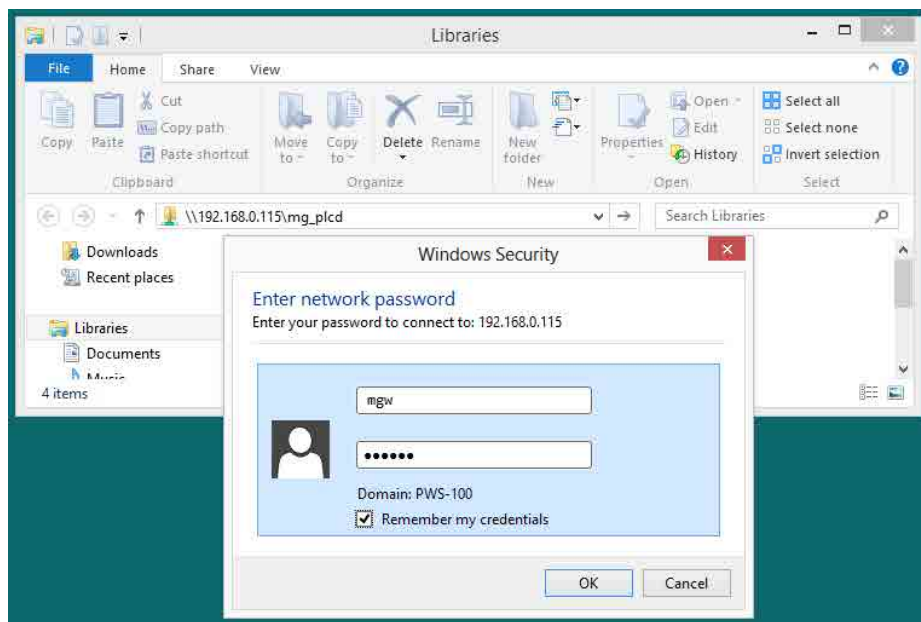
- (1) Open Explorer, enter "\\IP address of PC with PWA-MGW1 installed\mg_plcd," and press the [Enter] key.

The [Windows Security] dialog appears.

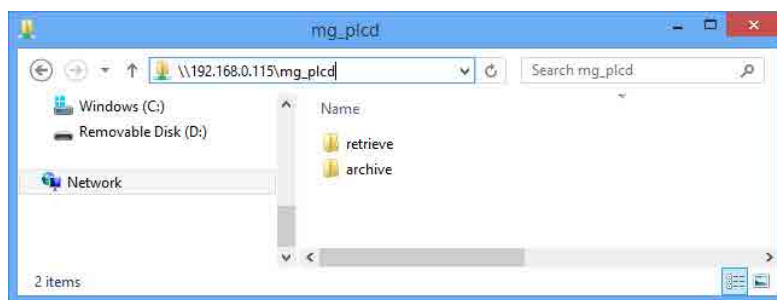
If the contents of the "MG_PLCD" folder are displayed, the folder access credentials have already been configured, and the following configuration is not required.

- (2) Enter the account name and password for which "MG_PLCD" folder sharing was configured in "1. PWA-MGW1 shared folder settings."

(3) Place a check mark in the [Remember my credentials] checkbox, and click the [OK] button.



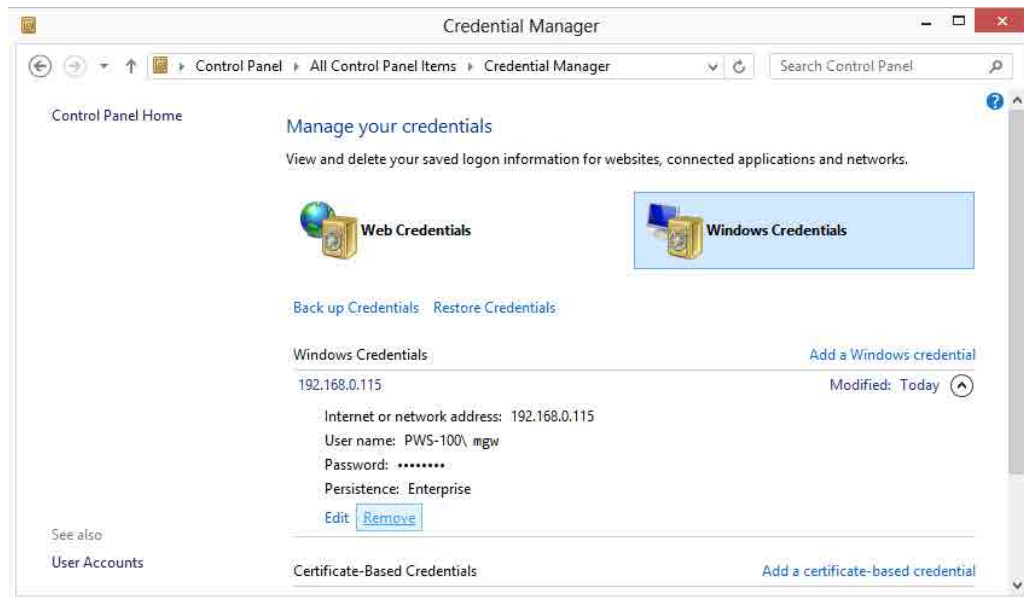
(4) Check that "archive" and "retrieve" folders appear inside the "MG_PLCD" folder.



To remove access credentials settings

- (1) Open [Control Panel] -> [Credential Manager].
- (2) Click [Windows Credentials].
- (3) Click the down arrow (V) to display the corresponding access credentials, and click [Remove].

The access settings are deleted.



Settings for using Submonitors

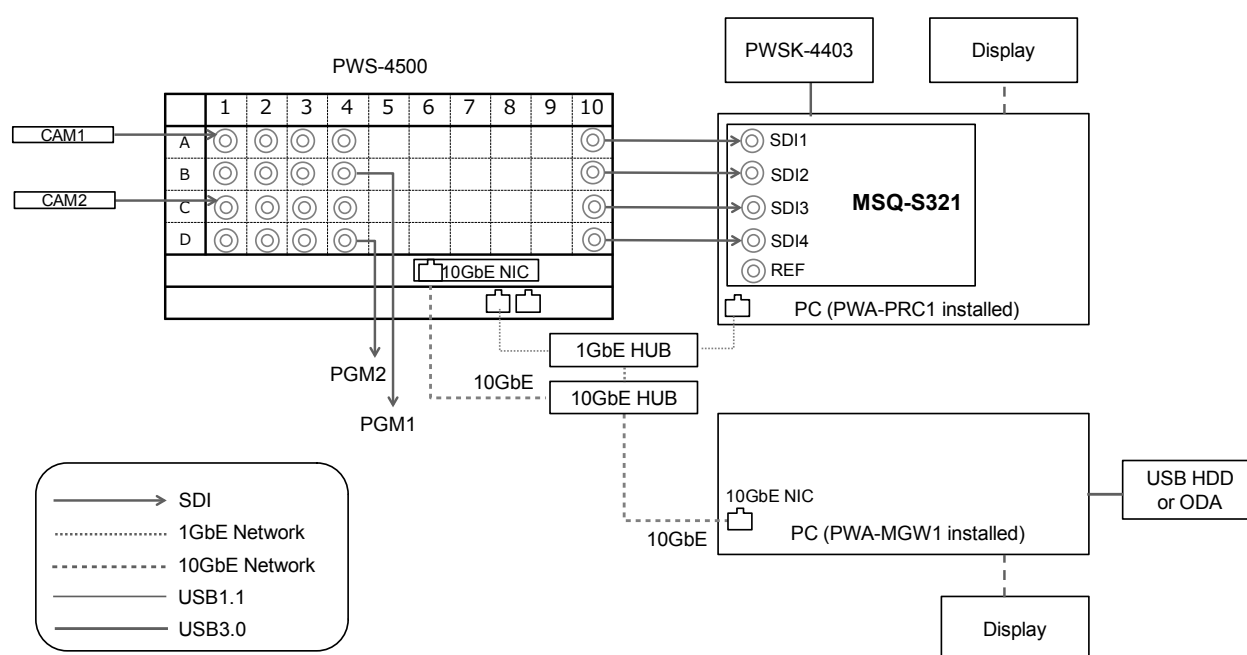
1. Right-click on the desktop and select [Screen Resolution] from the menu displayed.
2. Set [Resolutions] as follows.
 - ADTECHNO CL5585H: 1280x720
 - Sony CLM-V55 Clip-on LCD Monitor: 1280x768

Connections

Notes

- In configurations that require two MSQ-S321 boards, only PWS-100PR1/PWS-110PR1 connection is supported.
- In the following figures, MSQ-S321 or MSQ-S321(1) refers to the lower slot and MSQ-S321(2) refers to the upper slot.

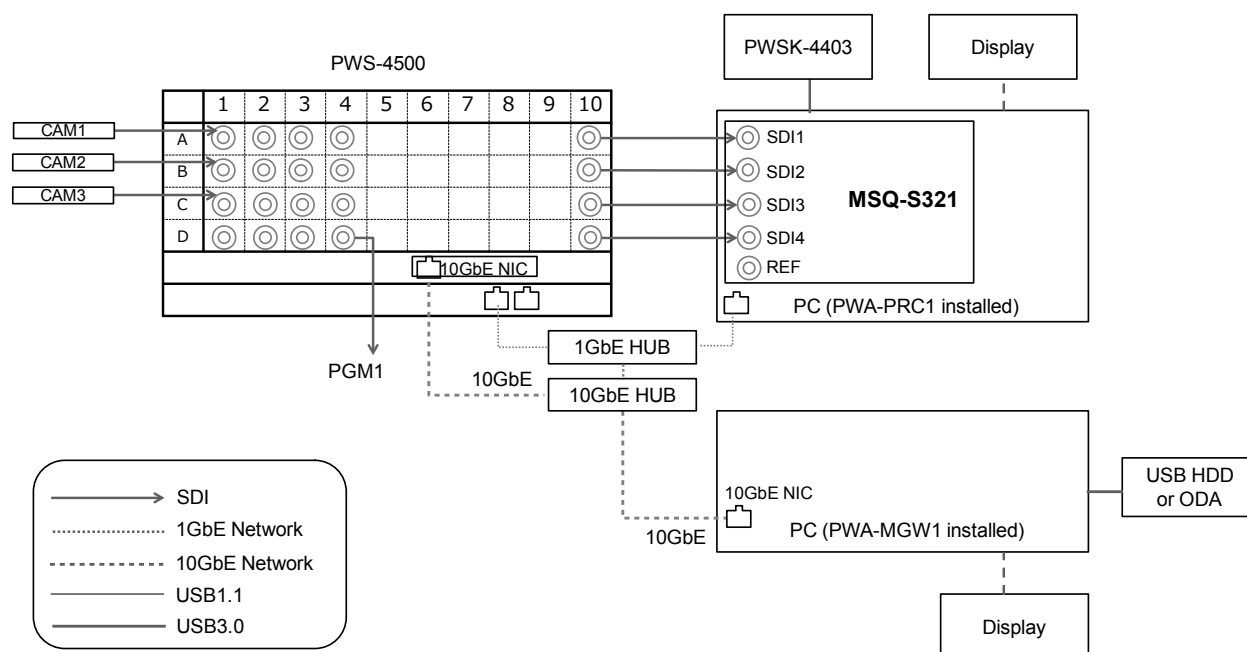
2IN/2OUT (4K) with 10GbE Network



PWA-PRC1 settings

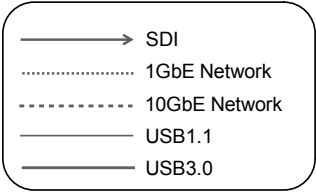
[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

3IN/1OUT (4K) with 10GbE Network



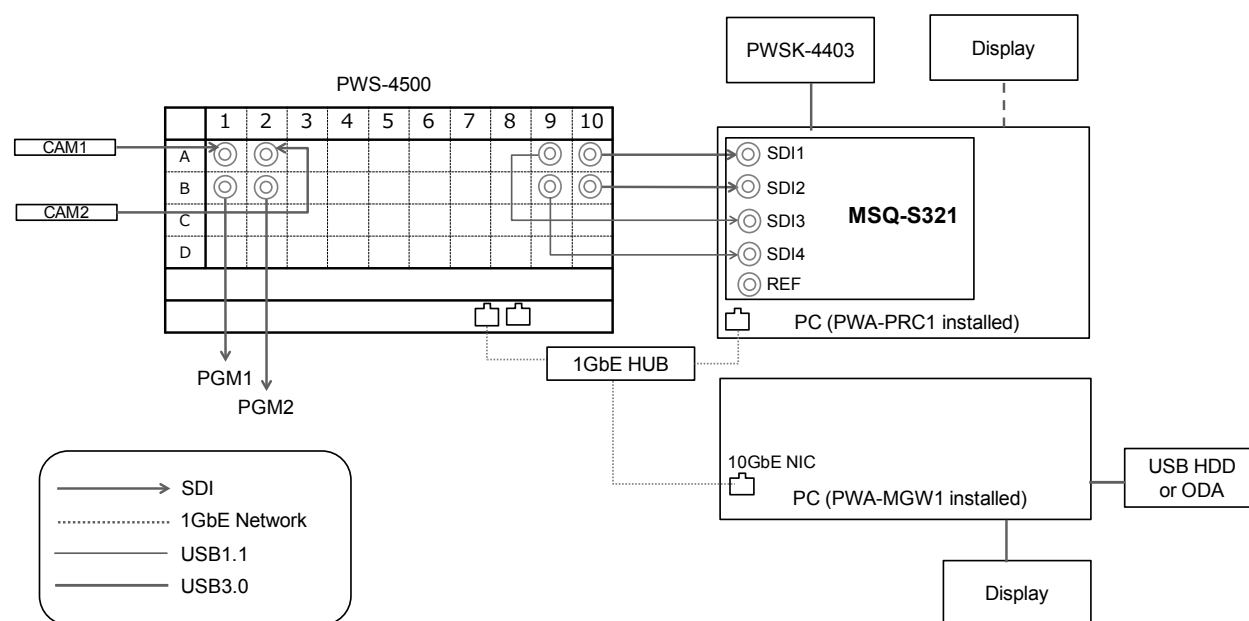
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address



[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

2IN/2OUT (HD) with 1GbE Network, without PWSK-4504



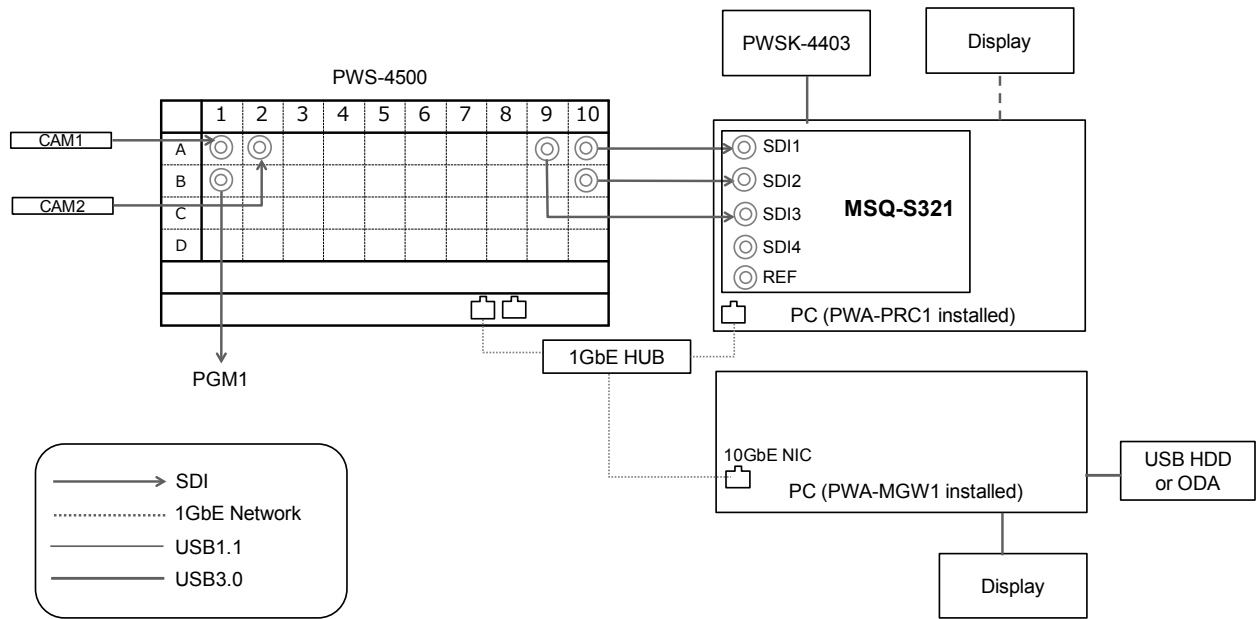
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

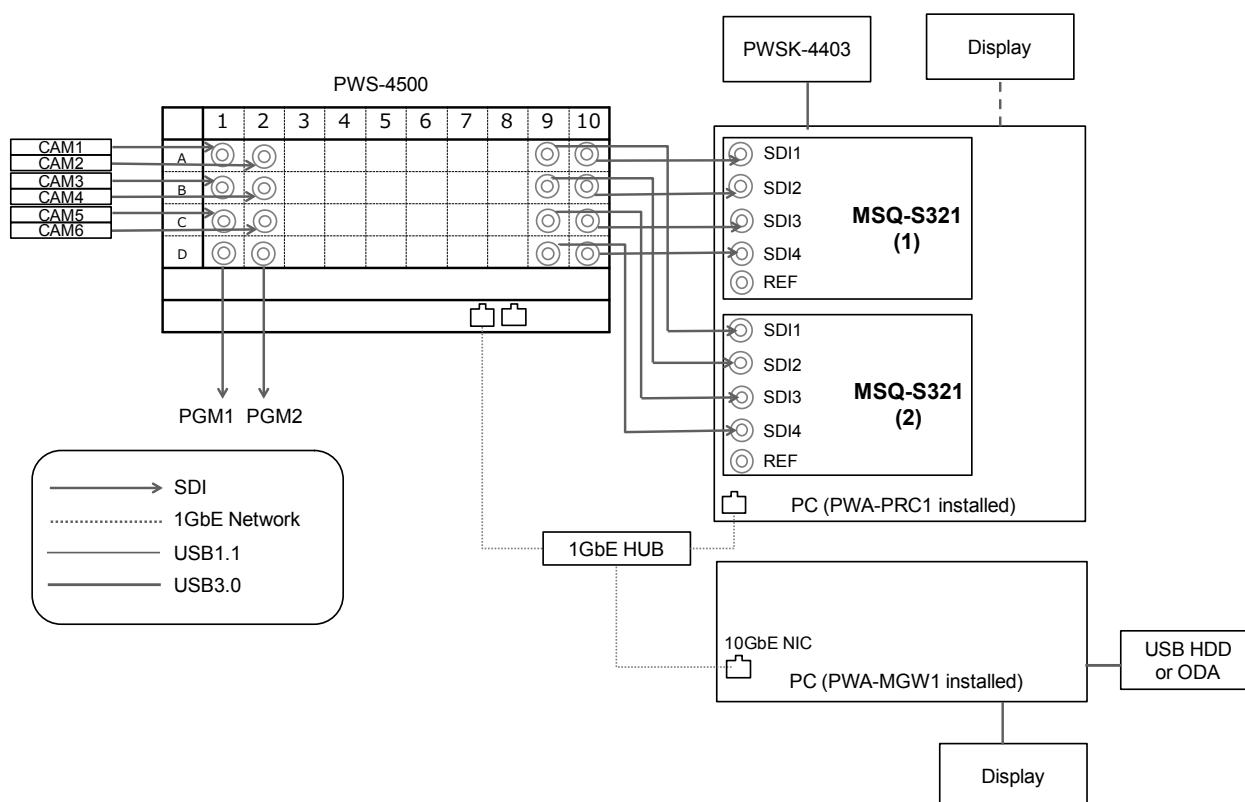
2IN/1OUT (HD) with 1GbE Network, without PWSK-4504



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

6IN/2OUT (HD) with 1GbE Network, without PWSK-4504



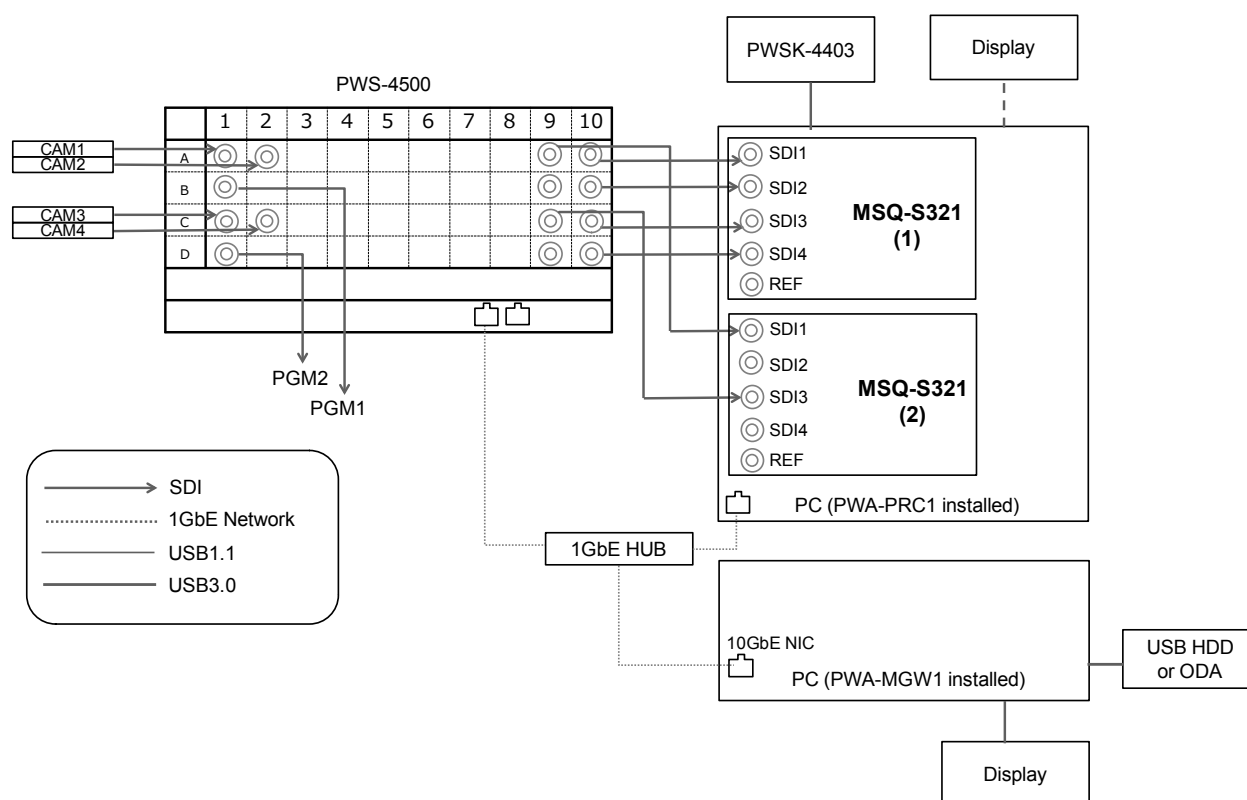
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

4IN/2OUT (HD) with 1GbE Network



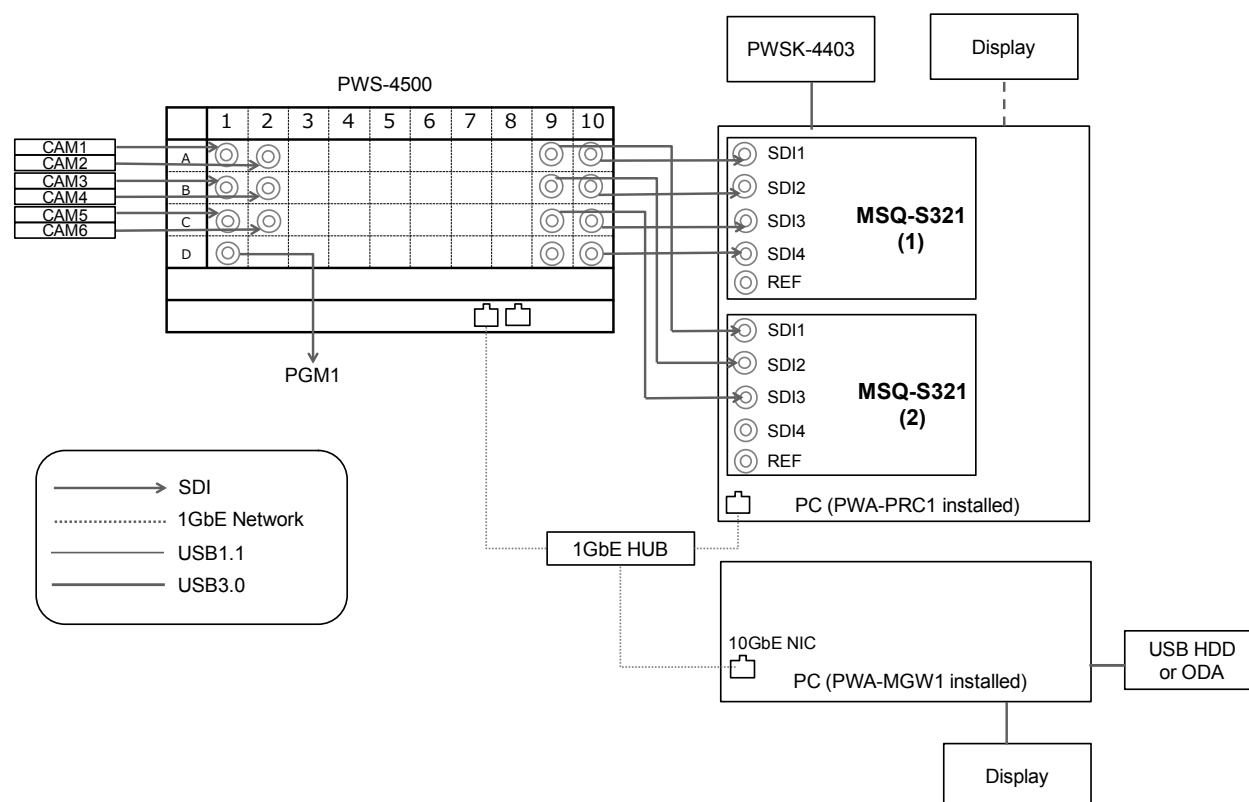
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

6IN/10OUT (HD) with 1GbE Network



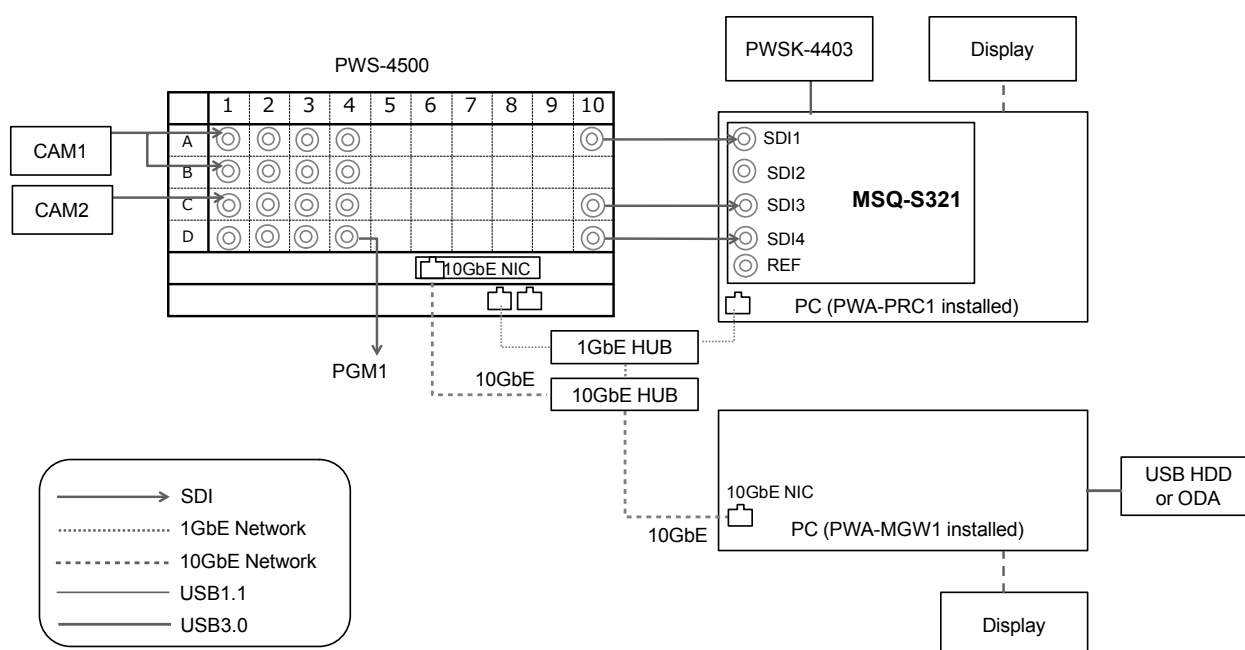
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

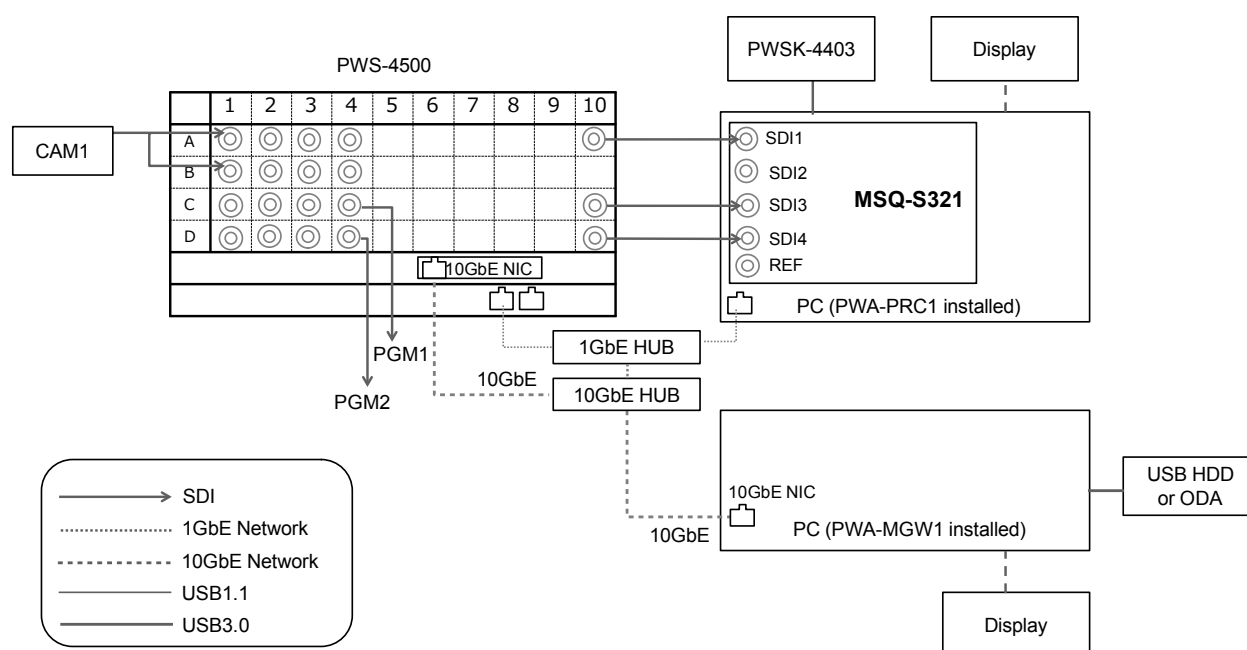
HFR 2IN/10UT (4K 2x) with 10GbE Network



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

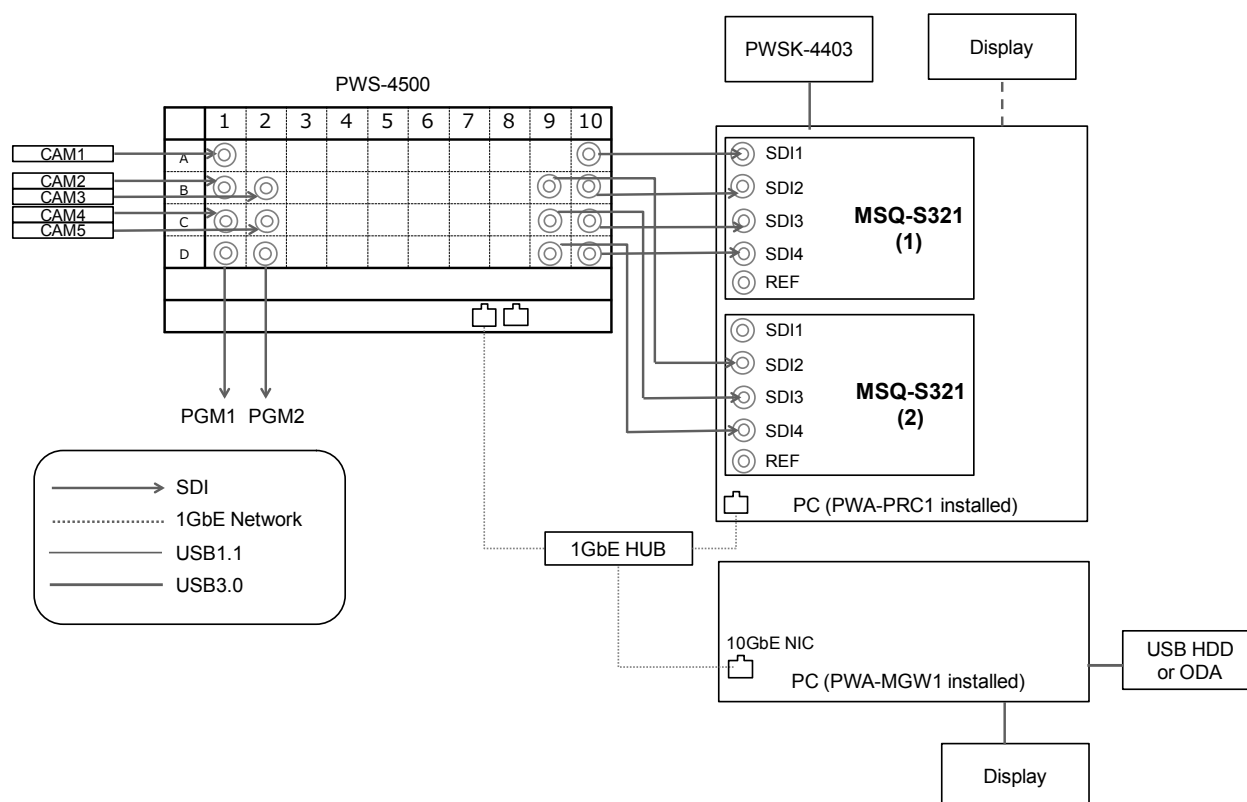
HFR 1IN/2OUT (4K 2x) with 10GbE Network



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

HFR 5IN/20UT (HD 4x, 3x, 2x) with 1GbE Network



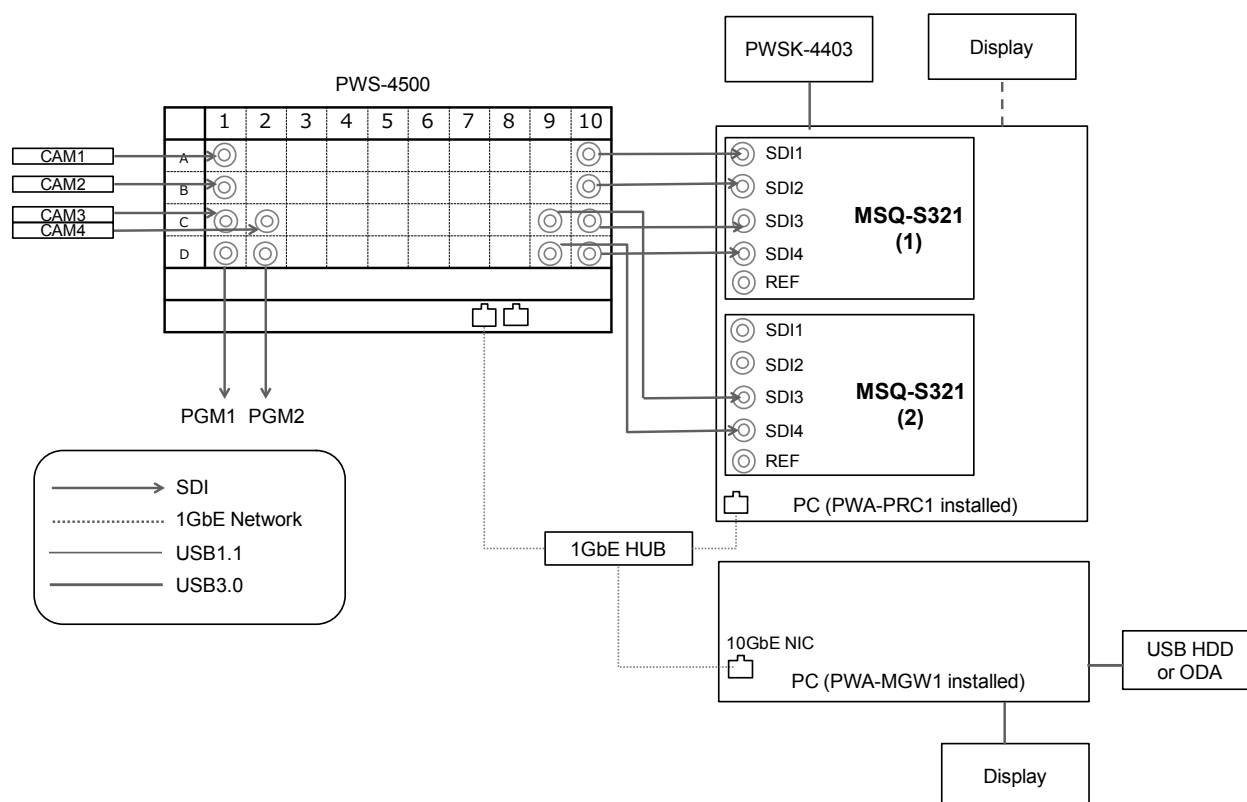
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 4IN/2OUT (HD 4x, 3x, 2x) with 1GbE Network



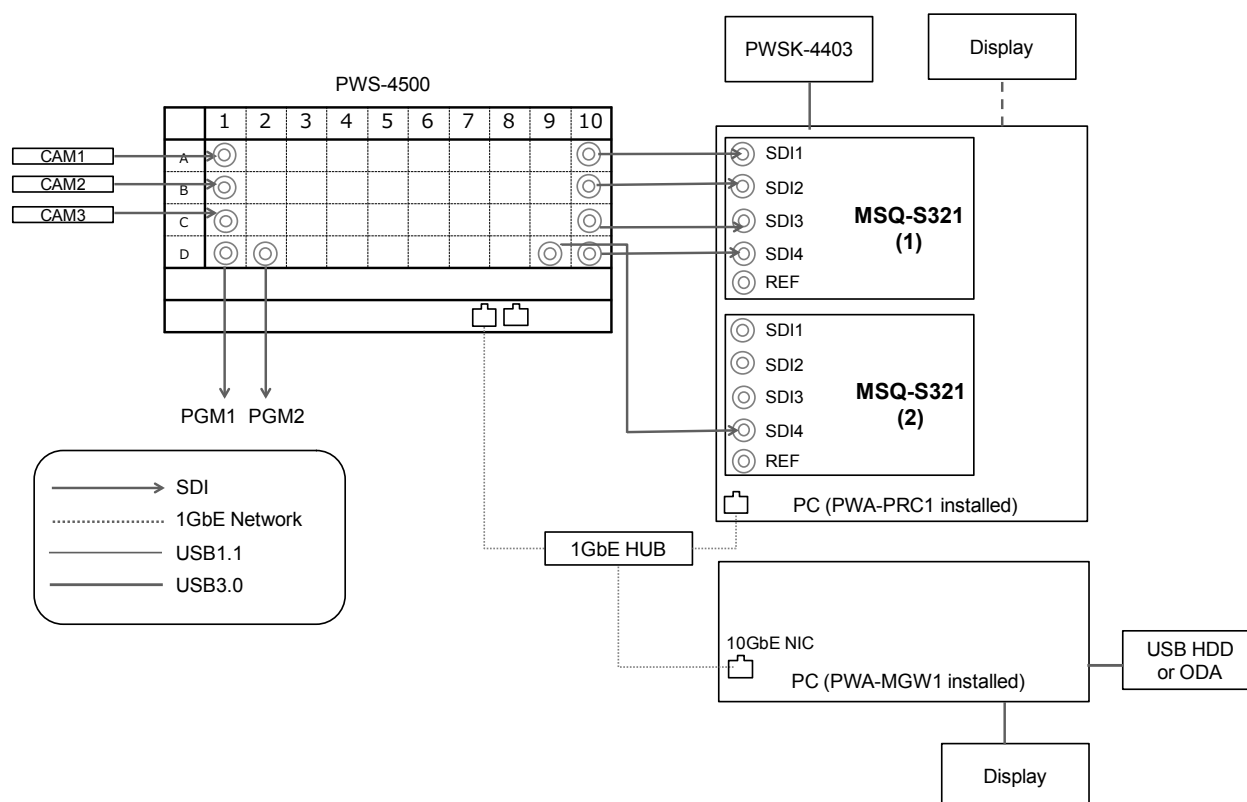
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 3IN/2OUT (HD 4x, 3x, 2x) with 1GbE Network



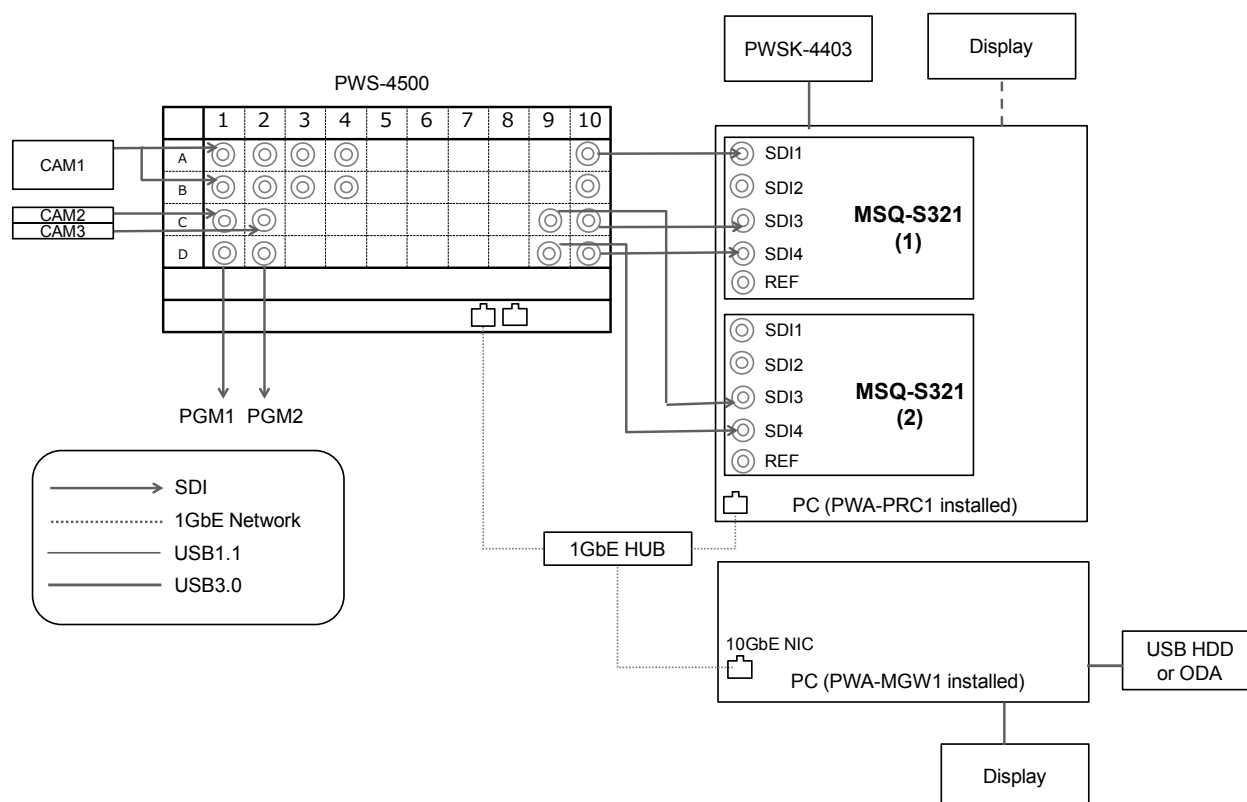
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 3IN/2OUT (HD 8x, 6x) with 1GbE Network



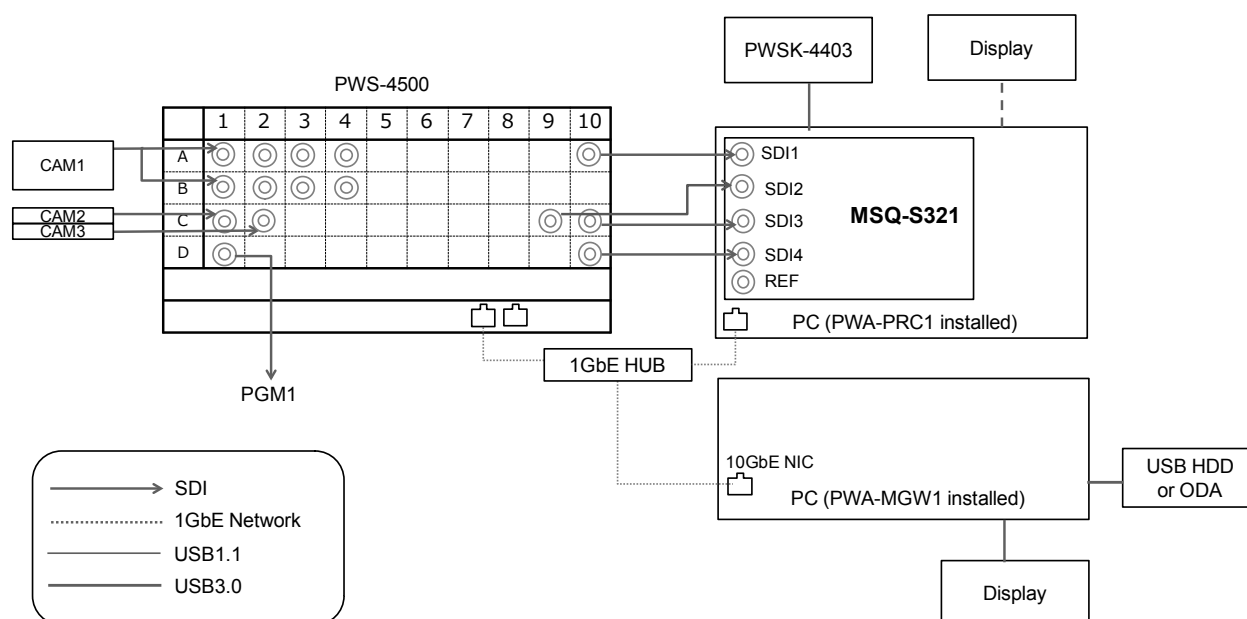
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 3IN/10OUT (HD 8x, 6x) with 1GbE Network



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

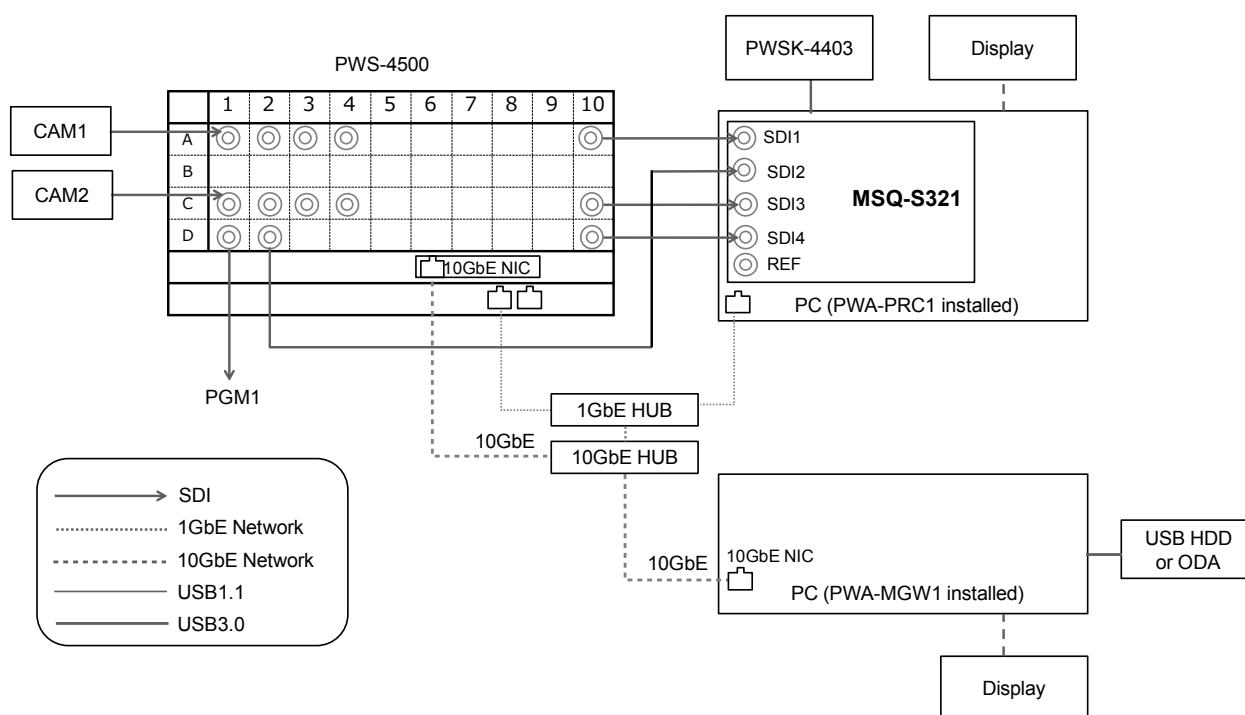
For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.



Note

39

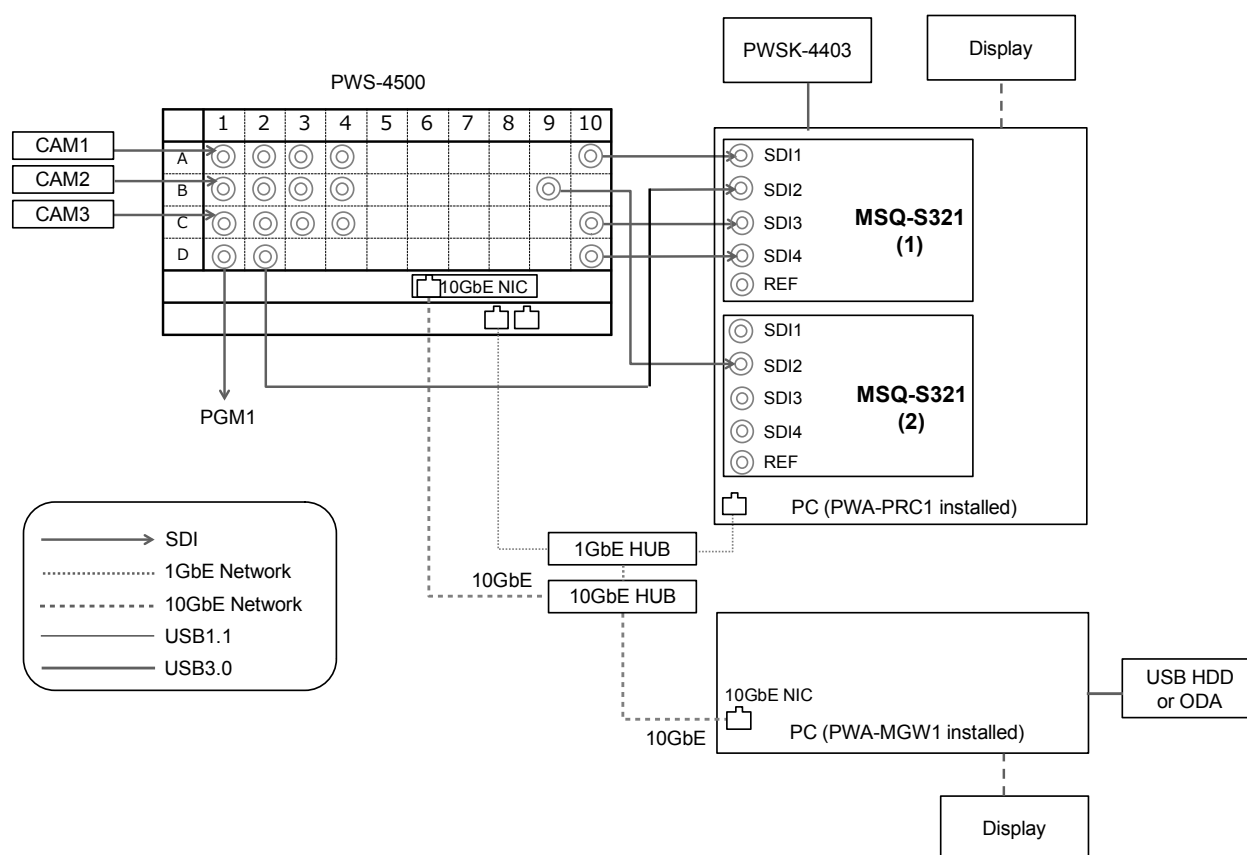
Cut Out with 10GbE Network (for MSQ-S321 1pc)



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

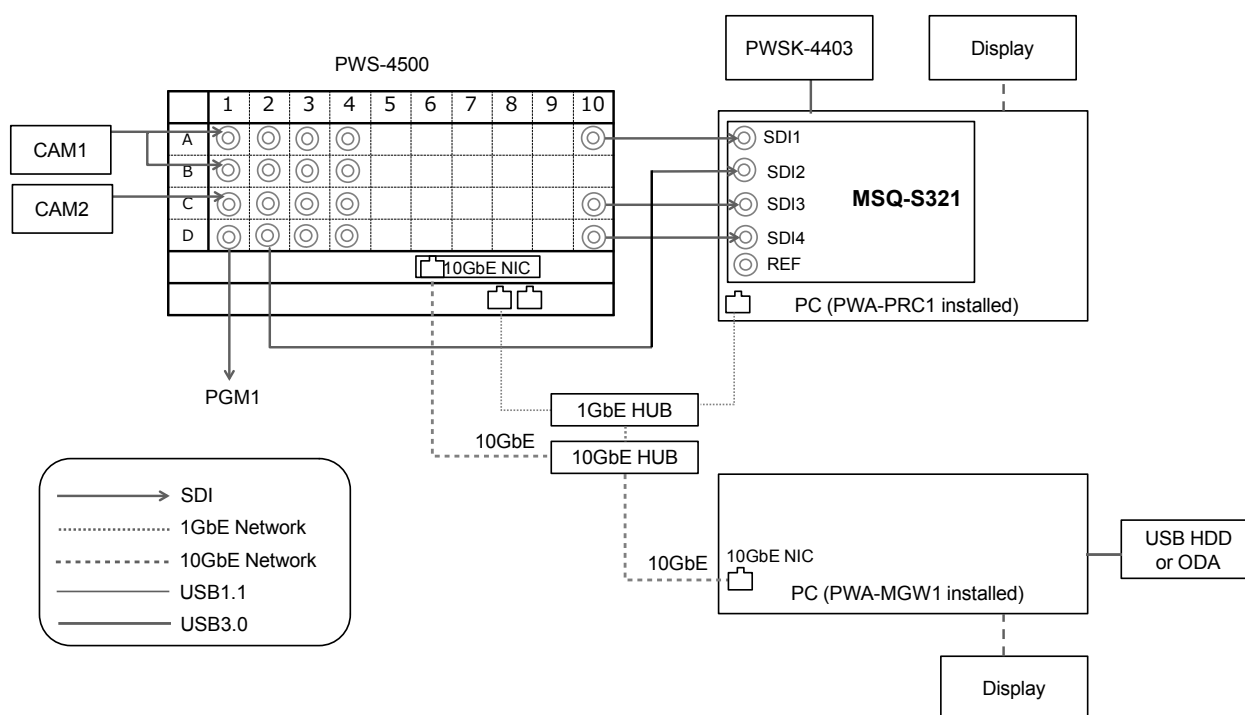
Cut Out with 10GbE Network (for MSQ-S321 2pcs)



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

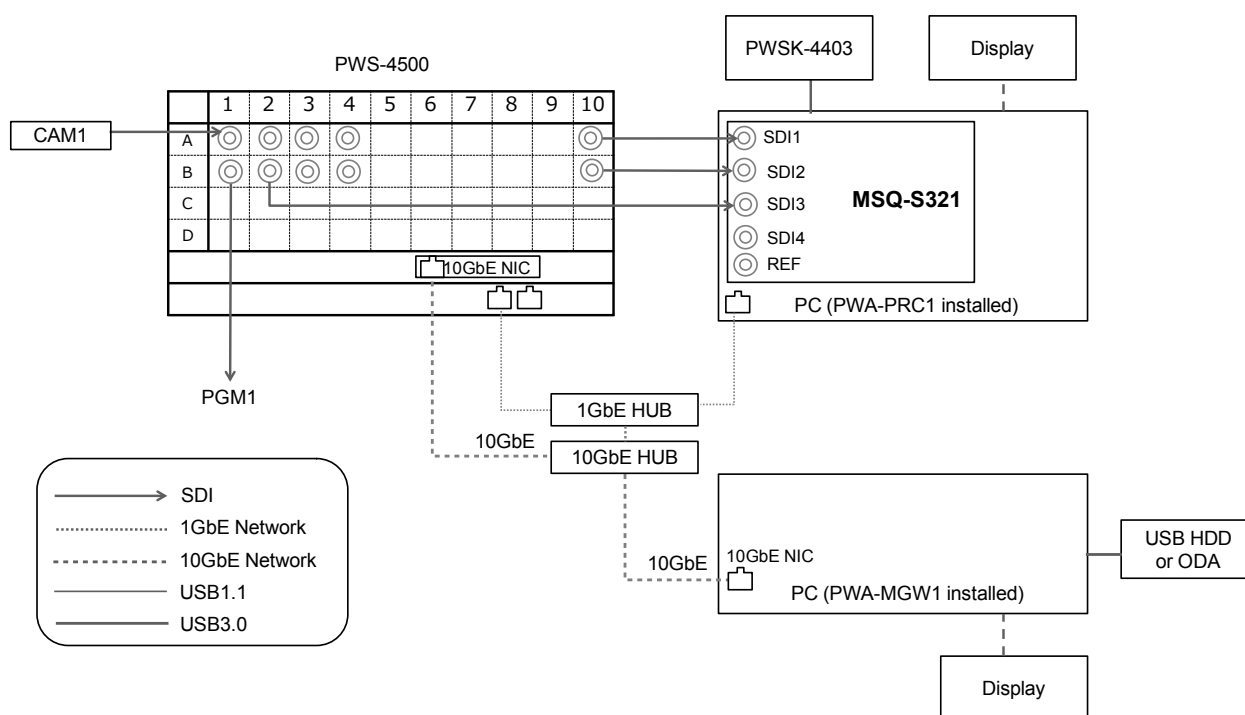
HFR + Cut Out with 10GbE Network (for MSQ-S321 1pc)



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

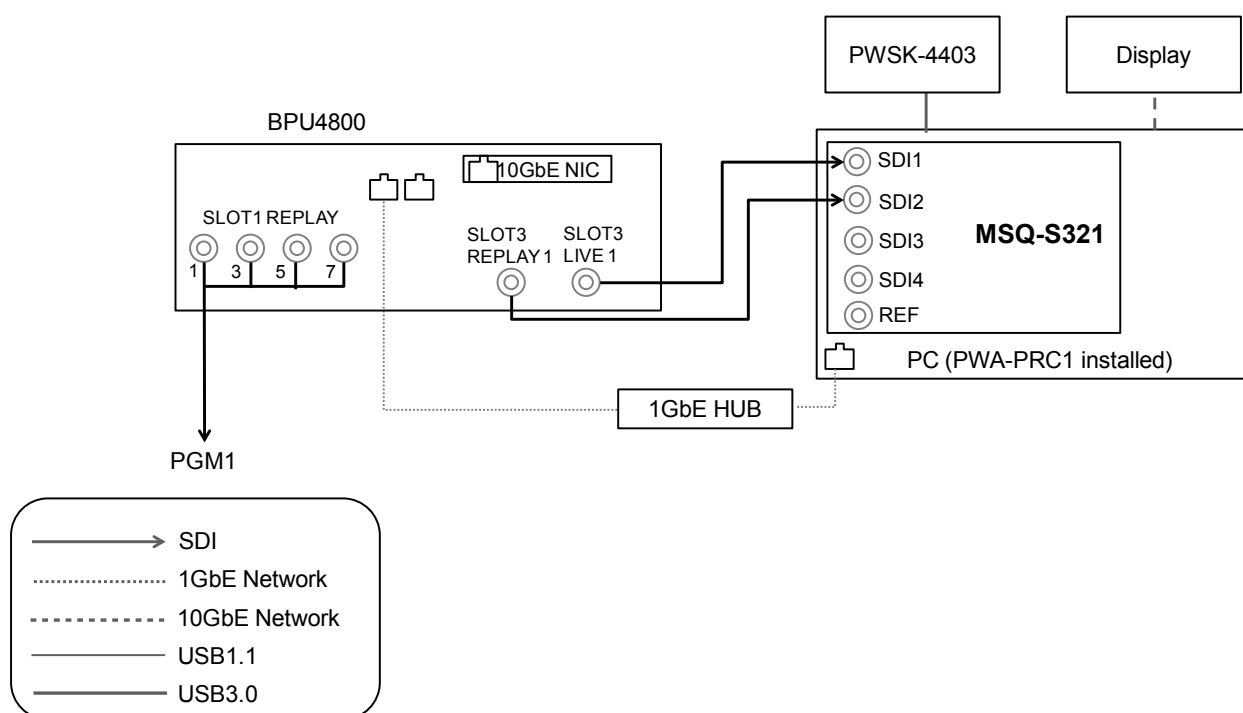
Cut Out with 10GbE Network, without PWSK-4504



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

BPU4800 Replay Port, Replay Port + XAVC Transcode Port



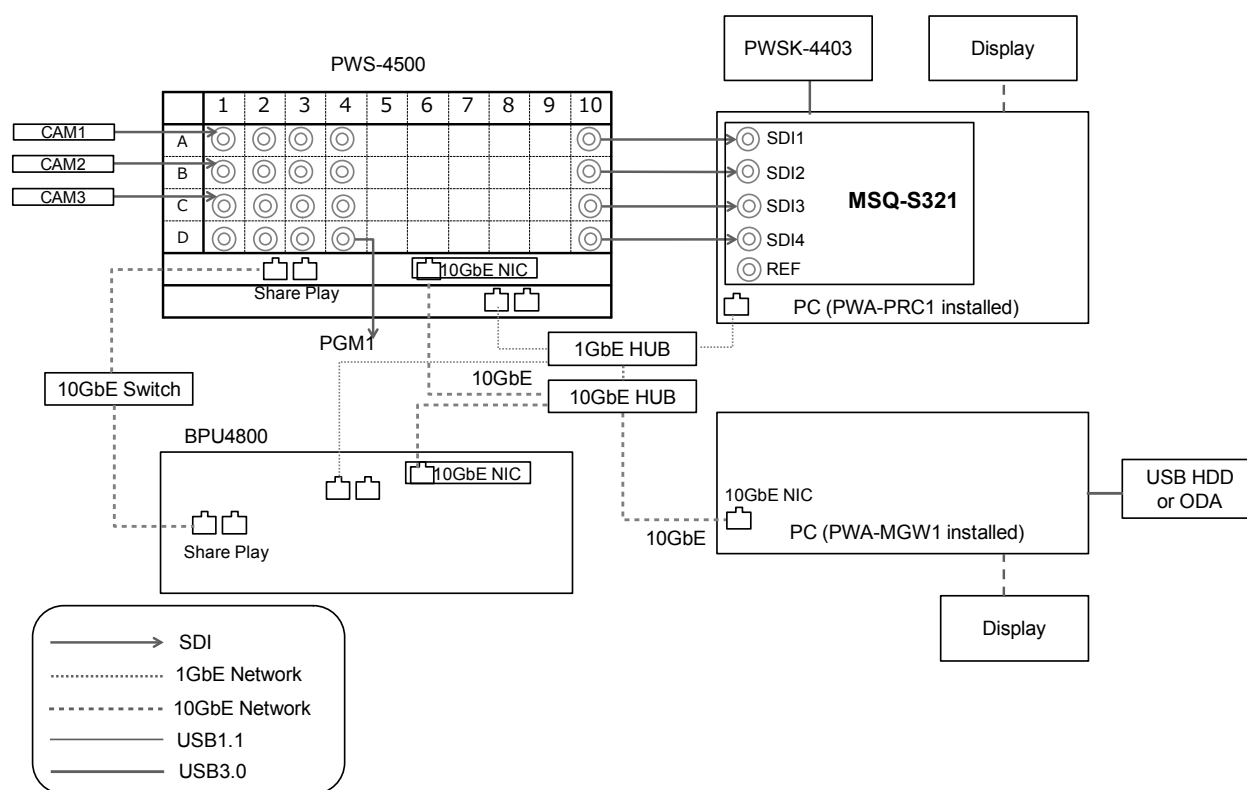
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address

Notes

- SLOT2 can be used instead of SLOT3 on the BPU4800 for the SDI connection. To use SLOT2, set the same value for the Format setting of SLOT3 and SLOT2.
- If the Character Super setting is used in PWS mode, use SLOT3.

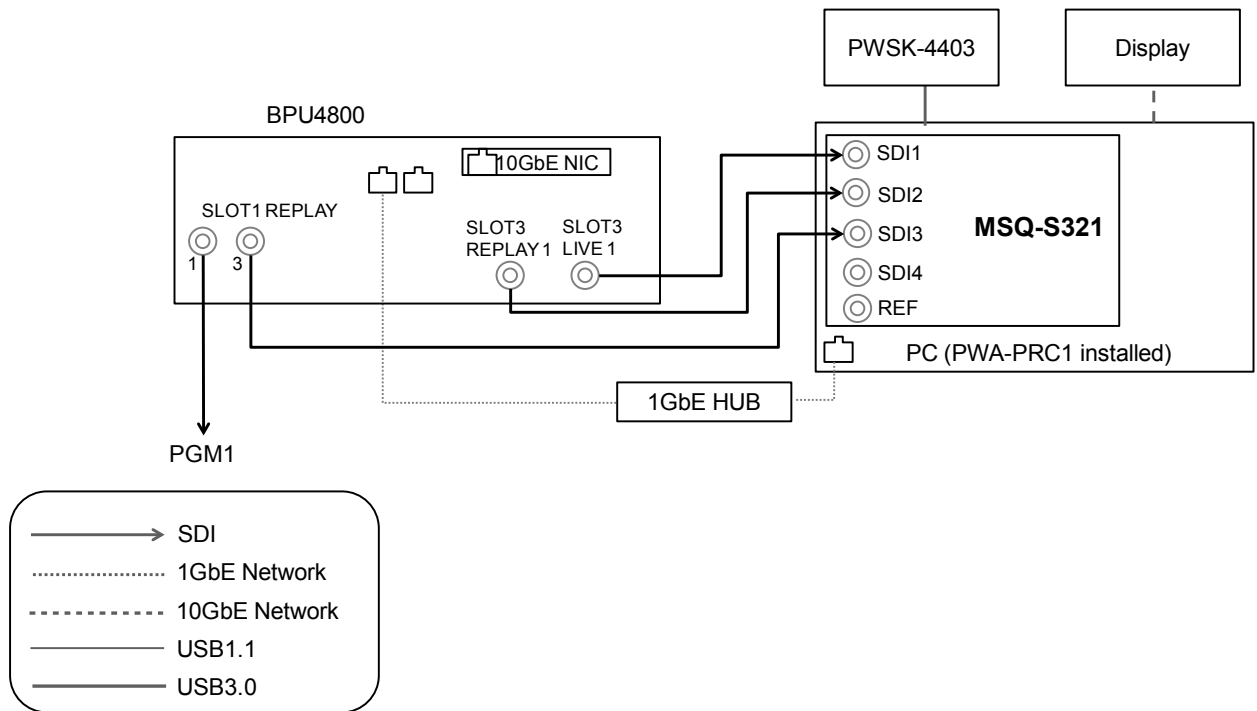
BPU4800 XAVC Transcode Port, Replay Port + XAVC Transcode Port



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

BPU4800 HD Cut Out Port



PWA-PRC1 settings

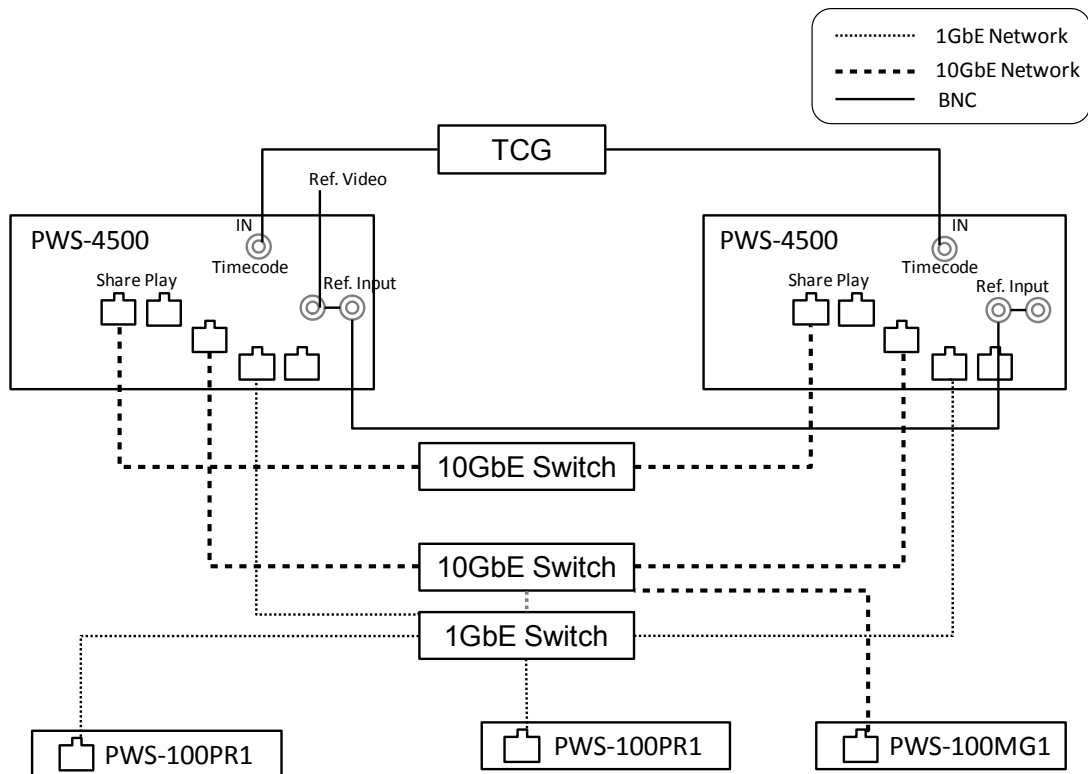
[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address

Notes

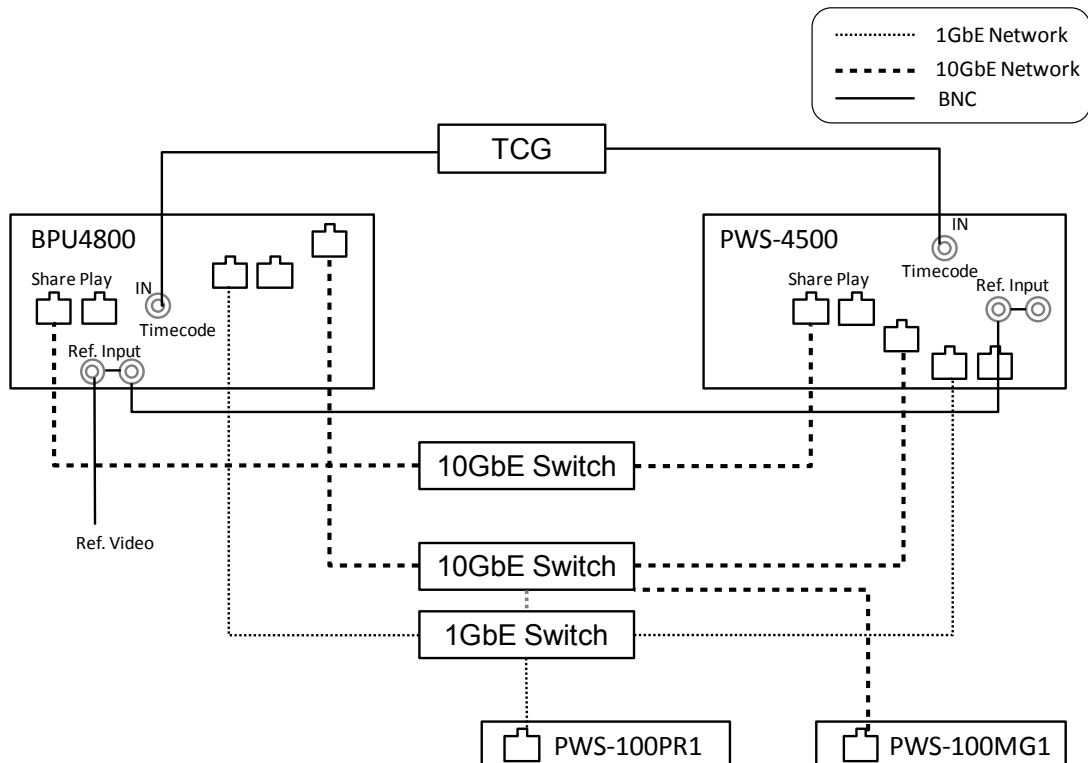
- SLOT2 can be used instead of SLOT3 on the BPU4800 for the SDI connection. To use SLOT2, set the same value for the Format setting of SLOT3 and SLOT2.
- If the Character Super setting is used in PWS mode, use SLOT3.

Connection for using Share Play Function

Configuration with PWS-4500



Configuration with BPU4800 and PWS-4500



Notes

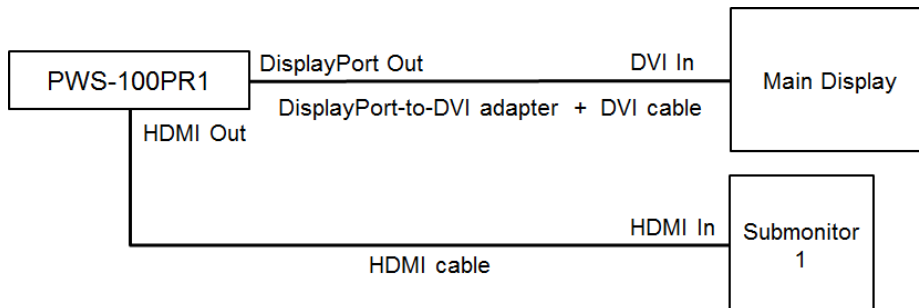
- When using a Share Play connection, the reference signal for all PWS-4500/BPU4800 units must be synchronized. Connect an external reference signal input to all PWS-4500/BPU4800 units.
- When using a Share Play connection, one PWS-4500/BPU4800 unit managed by PRC Manager is assigned as the master to which the other units are synced. Share Play will terminate if the PWS-4500/BPU4800 master unit is turned off during Share Play. Accordingly, during Share Play use, do not turn off any of the PWS-4500/BPU4800 units managed by PRC Manager.

Recommended network switches

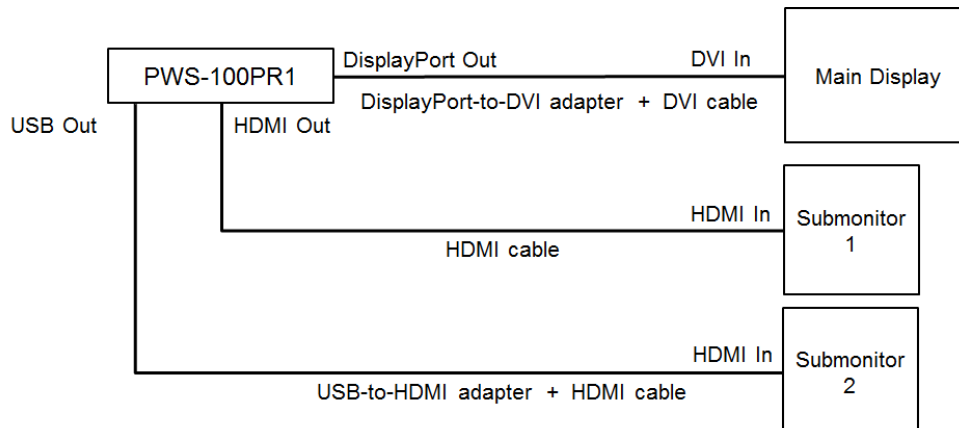
Manufacturer	Model	
Juniper	J-1) EX4550-32T	—
	J-2) EX4550-32F	
	J-3) QFX5100	
CISCO	C-1) CISCO Nexus 9332PQ	QSFP+ 32 port
	C-2) CISCO Nexus 9372PX	QSFP+ 6port, SFP+ 48 port
	C-3) CISCO Nexus 9372TX	QSFP+ 6port, 10G Copper 48 port

Submonitor Connections

• Connection with one submonitor (PWS-100PR1/PWS-110PR1)



• Connection with two submonitors (PWS-100PR1/PWS-110PR1)



Network Cable

Connect an Ethernet cable between PWS-4500/BPU4800 Network Port 1 and the Network terminal on the PC on which this application software is installed.

Note

PWA-PRC1 does not support the use of the Network Port 2 connector of the PWS-4500/BPU4800.

SDI Input/Output

Connect between PWS-4500 and MSQ-S321 attached to PC with BNC cables.

Note

When using only one MSQ-S321 in the PWS-100PR1/PWS-110PR1, connect the SDI cables to the SDI connectors for the lower slot.

Basic connection (MSQ-S321 × 2)

PWS-4500	MSQ-S321
Port A HD IN/OUT SDI 10	MSQ-S321(1)_SDI 1
Port A HD IN/OUT SDI 9	MSQ-S321(2)_SDI 1
Port B HD IN/OUT SDI 10	MSQ-S321(1)_SDI 2
Port B HD IN/OUT SDI 9	MSQ-S321(2)_SDI 2
Port C HD IN/OUT SDI 10	MSQ-S321(1)_SDI 3
Port C HD IN/OUT SDI 9	MSQ-S321(2)_SDI 3
Port D HD IN/OUT SDI 10	MSQ-S321(1)_SDI 4
Port D HD IN/OUT SDI 9	MSQ-S321(2)_SDI 4

Basic connection (MSQ-S321 × 1)

PWS-4500	MSQ-S321
Port A HD IN/OUT SDI 10	MSQ-S321_SD I 1
Port B HD IN/OUT SDI 10	MSQ-S321_SD I 2
Port C HD IN/OUT SDI 10	MSQ-S321_SD I 3
Port D HD IN/OUT SDI 10	MSQ-S321_SD I 4

Note

When making the basic connections, even if changes are made to the PWS-4500 I/O configuration (excluding the configuration patterns on the next page), the connection between the PWS-4500 and MSQ-S321 does not need to change.

HFR 3IN/1OUT (HD 8x, 6x) (MSQ-S321 × 1)

PWS-4500	MSQ-S321
Port A HD IN/OUT SDI 10	MSQ-S321_SDI 1
Port C HD IN/OUT SDI 9	MSQ-S321_SDI 2
Port C HD IN/OUT SDI 10	MSQ-S321_SDI 3
Port D HD IN/OUT SDI 10	MSQ-S321_SDI 4

HFR 2IN/2OUT (HD 8x, 6x) (MSQ-S321 × 1)

PWS-4500	MSQ-S321
Port A HD IN/OUT SDI 10	MSQ-S321_SDI 1
Port C HD IN/OUT SDI 10	MSQ-S321_SDI 3
Port D HD IN/OUT SDI 9	MSQ-S321_SDI 2
Port D HD IN/OUT SDI 10	MSQ-S321_SDI 4

Cut Out (MSQ-S321 × 1), HFR + Cut Out (MSQ-S321 × 1)

PWS-4500	MSQ-S321
Port A HD IN/OUT SDI 10	MSQ-S321_SDI 1
Port C HD IN/OUT SDI 10	MSQ-S321_SDI 3
Port D HD IN/OUT SDI 2	MSQ-S321_SDI 2
Port D HD IN/OUT SDI 10	MSQ-S321_SDI 4

Cut Out (MSQ-S321 × 2)

PWS-4500	MSQ-S321
Port A HD IN/OUT SDI 10	MSQ-S321(1)_SDI 1
Port B HD IN/OUT SDI 9	MSQ-S321(2)_SDI 2
Port C HD IN/OUT SDI 10	MSQ-S321(1)_SDI 3
Port D HD IN/OUT SDI 2	MSQ-S321(1)_SDI 2
Port D HD IN/OUT SDI 10	MSQ-S321(1)_SDI 4

PWS-4500 (without PWSK-4504) (2IN/2OUT, 2IN/1OUT, 1IN/1OUT)]

PWS-4500	MSQ-S321
Port A HD IN/OUT SDI 10	MSQ-S321(1)_SDI 1
Port B HD IN/OUT SDI 10	MSQ-S321(1)_SDI 2
Port A HD IN/OUT SDI 9	MSQ-S321(1)_SDI 3
Port B HD IN/OUT SDI 9	MSQ-S321(1)_SDI 4

PWS-4500 (without PWSK-4504) (Cut Out)]

PWS-4500	MSQ-S321
Port A HD IN/OUT SDI 10	MSQ-S321(1)_SDI 1
Port B HD IN/OUT SDI 10	MSQ-S321(1)_SDI 2
Port B HD IN/OUT SDI 2	MSQ-S321(1)_SDI 3

Installation

This section describes the PWA-PRC1 installation procedure.

For details about PWA-PRC1 operation, refer to the User's Guide.

Notes

- Perform installation with administrator privileges.
- When upgrading, uninstall the previous version before installing the new version.

Installing

1. Uninstall PWA-PRC1 V1 installed on the PWS-100PR1/PWS-110PR1.
See "To uninstall" (below) for the uninstall procedure. Do not delete the configuration information.
2. Double-click the installer Sony_PWA-PRC1_(version).exe. Follow the instructions that appear on the screen to complete installation.
To install a shortcut icon of PWA-PRC1 on the desktop, check [Create a desktop shortcut] in the Setup Type screen.

To uninstall

1. Close PWA-PRC1.
2. Select [Programs and Features] in the Windows Control Panel.
3. Select [PWA-PRC1], and then click [Uninstall].

After uninstalling the program, delete settings listed below as necessary. Configuration information is not deleted automatically.

- Settings files: C:\ProgramData\Sony\PWA-PRC1 folder

Note

Destination folder may be changed according to user settings.

Starting and Exiting Program

Starting PRC Manager

PRC Manager must be started beforehand in order to start PWA-PRC1.

PRC Manager is software used to manage PWS-4500/BPU4800, PWA-PRC1, and PWA-MGW1 on a network, without using an operation screen. It is included with the PWA-PRC1 installer.

Configuring auto startup when the PC boots

1. Create the following shortcut for the executable file.
C:\Program Files\Sony\PWA-PRC1\PRCManage.exe
2. Copy the created shortcut to the following file.
C:\Users\[user_name]\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup

If the above procedure is completed successfully, the PRC Manager icon will appear in the task tray when the PC boots.

Notes

- When PRC Manager is launched for the first time, a "Windows Firewall has blocked some features of this app" message appears in the [Windows Security Alert] dialog. Click [Allow access]. Connection with the PWS-4500 is not possible if this step is skipped.
- By default, the copy destination folder above is hidden by the system, and you cannot browse to the folder in Windows Explorer. If this occurs, use the following procedure to enable browsing in Windows Explorer.
 - 1) Display the menu, and click [Folder Options...] in the [Tools] menu.
 - 2) Click the [View] tab.
 - 3) Click [Show hidden files, folders, and drives] in [Hidden files and folders].

To exit PRC Manager

Right-click the PRC Manager icon displayed in the notification area of the task tray, and click [Exit] in the displayed menu.

Starting PWA-PRC1

1. Turn on the computer on which PWA-PRC1 is installed, the PWSK-4403, and the server.
The [F1] to [F10] function buttons and the [ENTER] button on the PWSK-4403 are lit blue.
2. Click/tap "PWA-PRC1" on the Start screen or double-click/double-tap the "PWA-PRC1" icon on the desktop.
When starting PWA-PRC1 for the first time:
Authentication using an install key is required.
For details, see "About Authentication" (page 55).
3. When PWA-PRC1 starts and the IP input screen appears, enter the [PRCM IP Address] and click/tap [Set].
4. Select the PWS-4500 or BPU4800 to be the local server.
The operation screen of PWA-PRC1 appears.
When the connection with the PWS-4500 or BPU4800 is successful, the information on the PWA-PRC1 operation screen is updated and record train recording starts.
The clip registration status is reflected in the [F1] to [F10] function buttons on the PWSK-4403 (button is green if a clip is registered or off if no clip is registered).

Notes

- Under the default settings of the PWA-PRC1, loop recording mode is disabled. If the server is set to loop recording mode, be sure to enable [Loop REC] in the settings screen after PWA-PRC1 starts.
- Do not change the size of text on the screen.

Exiting PWA-PRC1

1. Press the [SHIFT] button on the PWSK-4403 and then press the [D] (Settings) soft button.
The settings screen appears.
You can also press the Shift+F2 key combination on the keyboard to display the settings screen.
2. Press the [SHIFT] button and then press the [A] (Exit App) soft button.
A confirmation message appears. Click/tap [OK] to stop record train recording and close all ports, or click/tap [Cancel] to continue recording.
You can also click/tap the "✕" button in the top right corner of the window using a mouse/touch panel to exit PWA-PRC1.

About Authentication

When using PWA-PRC1 for the first time, an install key is required for authentication. This procedure is not required if using the PWS-100PR1/PWS-110PR1.

Executing Authentication

The following are necessary for authentication.

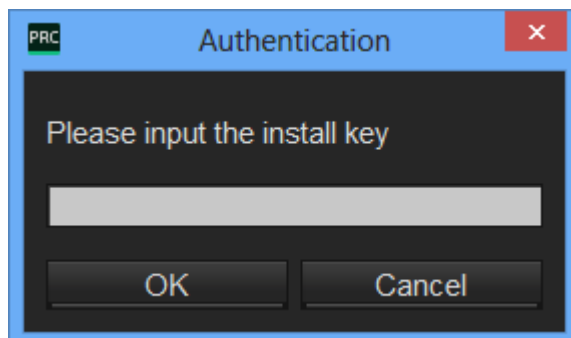
- MAC address of a network interface within the PC
- A software install key for PWA-PRC1 (Ask your sales contact for details).

Notes

- A software install key is valid for one PC. If you use PWA-PRC1 on another PC, another software install key is required.
- Whenever a network card is changed, authentication is required. This is because authentication uses MAC address of the network card.

1. Start PWA-PRC1.

The Authentication screen appears.



2. Input a software-install-key on the Authentication screen, and then click [OK].

Setting

Make the required settings for PWA-PRC1 operation.

Displaying the Settings Screen

1. Start PWA-PRC1.
2. Press the [SHIFT] button, and then the [D] (Settings) button of the PWSK-4403.

The Settings screen appears.

On a keyboard, press the Shift+F2 keys to switch between the operation screen and the settings screen.

Using a mouse/touch panel, click/tap the [Settings] button on the operation screen.

Configuration Items

[System 1]

Category	Item	Description	Default value
PRC manager	Primary PRC manager IP/Port	Specify the IP address of PRC Manager and the port used for communications. Note If this setting is changed, restart PWA-PRC1.	IP address: undefined Port No.: 51000
	PTP Domain	Specifies the domain value (Primary, Secondary) for Share Play (range: 0 to 127). [Set] button: Resets the Share Play connection in response to edited settings.	Primary: 100 Secondary: 101
	ISC Auto maintenance	Specifies whether to enable (On) or disable (Off) automatic PWA-ISC1 maintenance. Configurable only when a PWA-ISC1 is connected.	Off
4K server(s)	—	Registers information about the servers on the network (up to 10 servers).	—
	ID	Displays the connected server ID.	—
	Model Name	Displays the model name.	—
	Name	Specifies the server name.	Server ID
	Local	Specifies the local server	(Undefined)
	Push	Specifies the transfer destination server when using the push function.	(Undefined)
	Control IP	Specifies the IP address set for Network 1 on the server.	—
	Transfer IP	Specifies the IP address for transfers.	Same as Control IP address value

Category	Item	Description	Default value
	Share Play	<p>Displays the status of the server's four Share Play ports ("T" for transmitter, "R" for receiver), and indicates whether the ports are in use.</p> <ul style="list-style-type: none"> • When linking is off, nothing is displayed. • When linking is on, "... " is displayed until genlock is achieved. • Each Share Play port is displayed in green when available. • Each Share Play port is displayed in yellow when in use. • The server with "*" indicates the GenLock Master. 	—
	Push receive page	Selects the receive page for clips transferred using the push function.	(Undefined)
	Edit by network	Enables/disables editing and deleting of clips from the PRC1 for which the corresponding server is a network server.	Yes
	Rec control	<p>Starts/stops recording on the network server.</p> <p>[Start] button: Start recording</p> <p>[Stop]: Stop recording</p>	—
	Network/PL clip save page	<p>Selects the page to register (0 to 9, multiple selection supported), when PRC1 is connected to a network server and a clip is created in the cliplist managed by PRC1 from material on the network server.</p> <p>Note</p> <p>If the specified page is on a local server, this setting is configurable only from the local PWA-PRC1. If the server is not local, this setting can be configured from any PWA-PRC1 instance.</p>	(Undefined)
	Protect pages	<p>Specifies the pages (0 to 9, multiple selection supported) on which clips are protected.</p> <p>Note</p> <p>If the specified page is on a local server, this setting is configurable only from the local PWA-PRC1. If the server is not local, this setting can be configured from any PWA-PRC1 instance.</p>	(Undefined)

Category	Item	Description	Default value
Media Gateway	IP address	Registers the IP address of Media Gateway. [Refresh] button: Acquires information about the drives connected to Media Gateway. Note Click/tap the [Refresh] button in the following cases. <ul style="list-style-type: none"> • Archive destination drive connection is changed • Media is exchanged • Server transfer IP is changed or deleted 	(Undefined)
	Drive	Selects the archive destination drive from the list.	(Undefined)
	Push machine	Selects the push function transfer destination from the servers connected to Media Gateway.	(Undefined)
	Folder	Selects the archive destination folder from a list. [Folder] button: Sets the selected folder.	Root folder
Push target	—	Selects the transfer destination server for the push function. 4K server: Selects the 4K server selected in [Push]. Other server: Selects a server connected to Media Gateway.	4K server

For details about other PWA-PRC1 settings, refer to the User's Guide.

Appendix

Trademarks

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