SONY

CAMERA OPERATING SOFTWARE

HZC-BRCN1

USER'S GUIDE English

1st Edition (Revised 1)

Overview

The HZC-BRCN1 is optional software for the CNA-1 Camera Control Network Adaptor. Installing this software allows you to control the BRC-H900 HD Color Video Camera remotely by expanding the Gateway function of the CNA-1.

Compatible with the VISCA over IP

The CNA-1 with HZC-BRCN1 installed can control the BRC-H900 remotely from RCP or MSU by converting the communication protocol for the remote control panel RCP-1500 series and master setup unit MSU-1000 series to the VISCA over IP.

Note

Only items for image quality can be controlled remotely. You cannot control pan, tilt, and zoom.

Compatible with the multi-camera operation

Using the multiple CNA-1s allows you to perform multi-camera operation with multiple BRC-H900s.

Connection target devices

BRC-H900 (requires the BRBK-IP10 IP Control Interface Card to be installed.)
RCP-1500/1501
MSU-1000/1500
HZC-CSM10

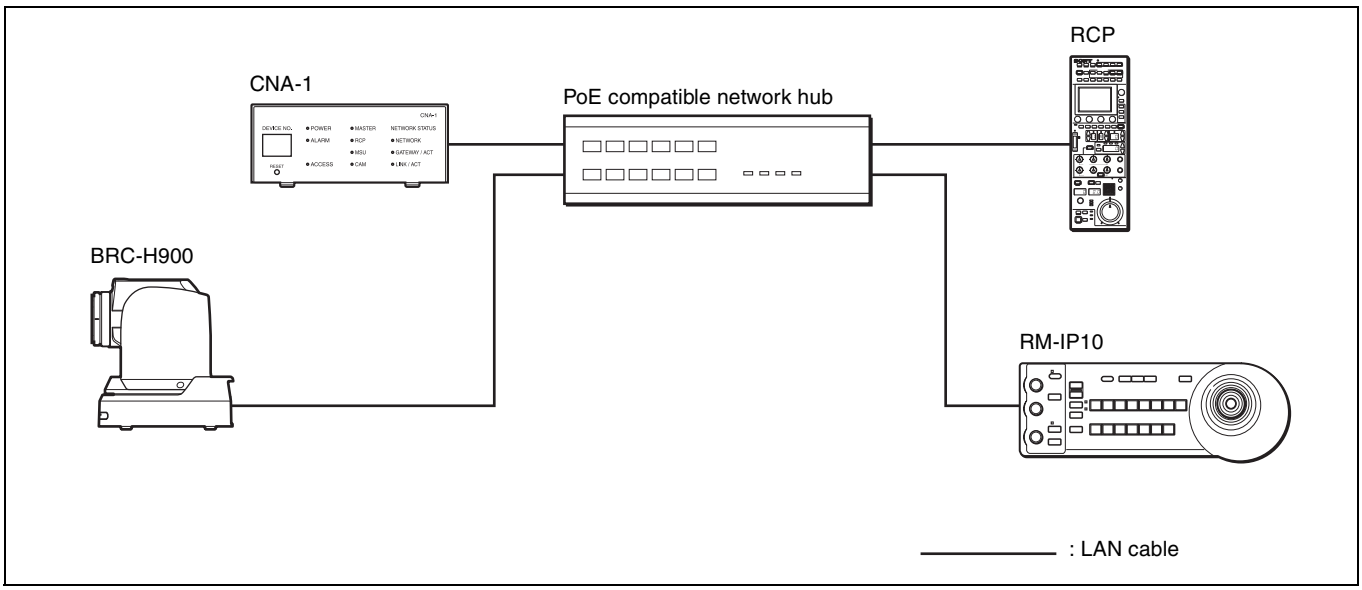
Target device for installing the HZC-BRCN1

This software can be installed to the CNA-1 Camera Control Network Adaptor with Application Version 2.0 or higher.

Examples of System Configurations

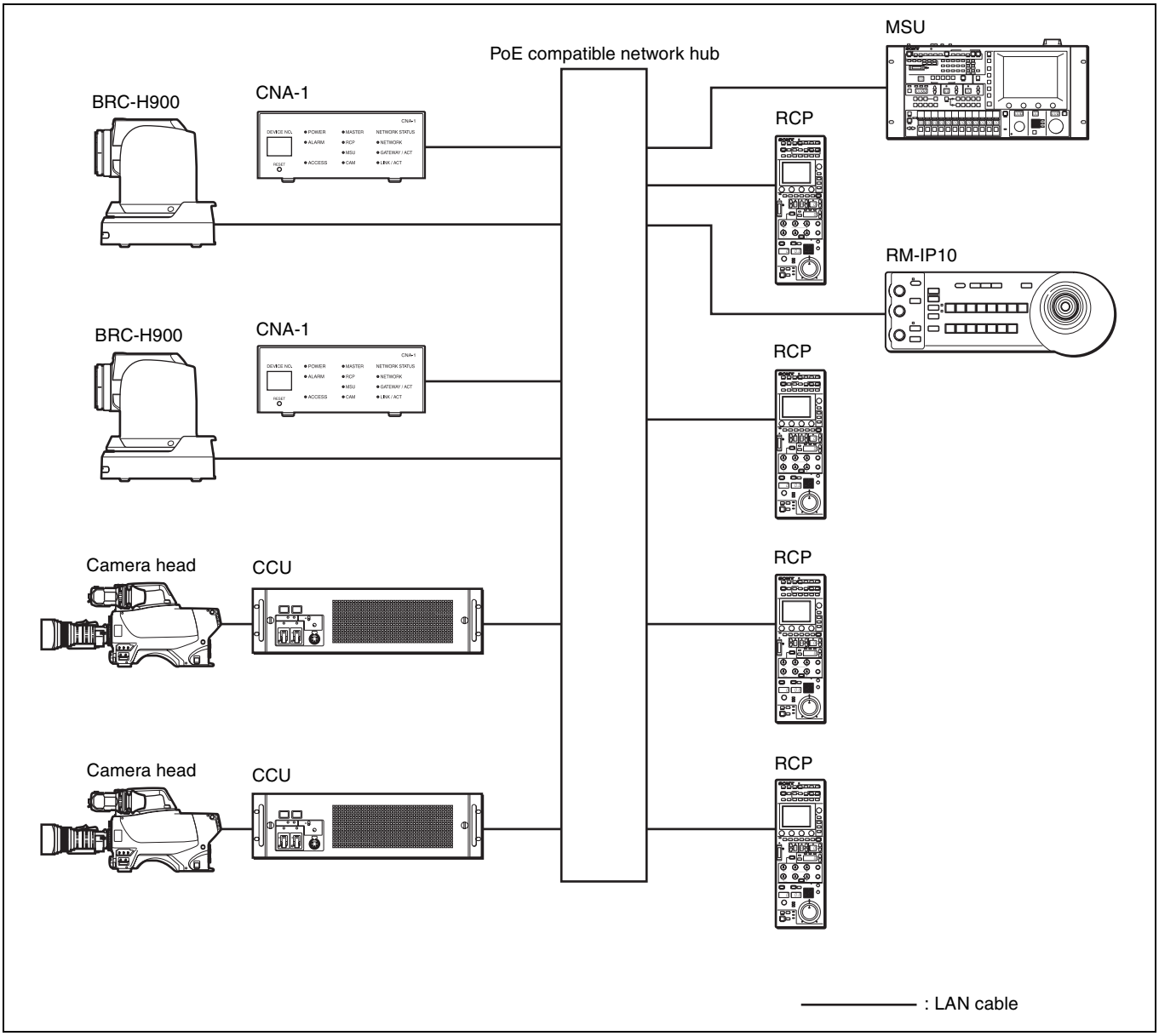
Controlling the BRC-H900 one-to-one from the RCP-1500 series

Connect the CNA-1, BRC-H900, and RCP (one device respectively) with LAN connection, and control the BRC-H900 from RCP.
You can control pan, tilt, and zoom by connecting the RM-IP10 IP Remote Controller.



Operating the multi-camera system with the system cameras

You can operate the multi-camera system by connecting the multiple BRC-H900s and system cameras with LAN connection.
Connect the same number of CNA-1s as BRC-H900s, one Master device for the multi-camera system, and RCPs.



Note

MSU-1000 series and CNA-1 can be set to Master.

Installation

Performing installation

1 Display the setup menu of the CNA-1.

The setup menu of the CNA-1 can be operated from a PC by using the Web browser. For details, see “Menu operation” in the CNA-1 Operation Manual.

2 Display the System page.

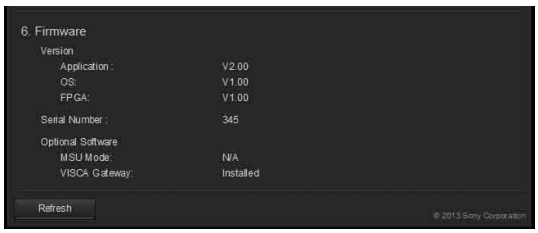
3 Input the 16-digit install key to the “Install Key” input box of “6. Install optional software.”

4 Click the “Install” button.

Check the installation results

1 Display the Status page.

2 Check that “VISCA Gateway: Installed” is displayed on “Optional Software” of “6. Firmware.”



3 Display the CNS page.

4 Check that the “VISCA Gateway” items are displayed on “2. Gateway Configuration.”

Setting the VISCA Gateway Function

Activate the BRC-H900 control function of the CNA-1 by following the steps below.

1 Display the CNS page.

2 Set “Gateway Mode” of “2. Gateway Configuration” to “Enable.”

3 Set “VISCA Gateway Mode” to “Enable.”

4 Input the IP address of the BRC-H900 that is to be controlled to “VISCA Target IP Address.”

5 Set the scene recall function to enable or disable.

Enable: Set “VISCA Scene Call Function” to “Enable.”
Disable: Set “VISCA Scene Call Function” to “Disable.”

Setting the BRC-H900

To install the BRBK-IP10 IP Control Interface Card

LAN connection is required for the control by using the CNA-1. For details, see Operation Guide for Optional IP Control of the BRC-H900.

Notes

- The default IP address of the BRC-H900 differs from the default IP address of the CNA-1 (BRC-H900: 192.168.0.100/24, CNA-1: 192.168.1.1/24). The communication between devices is disabled on the default setting. Set the IP address of the BRC-H900 or CNA-1 appropriately.
- The CNA-1 is not compatible with the VISCA protocol when RS-232C or RS-422 is used.

To enable the control from RCP

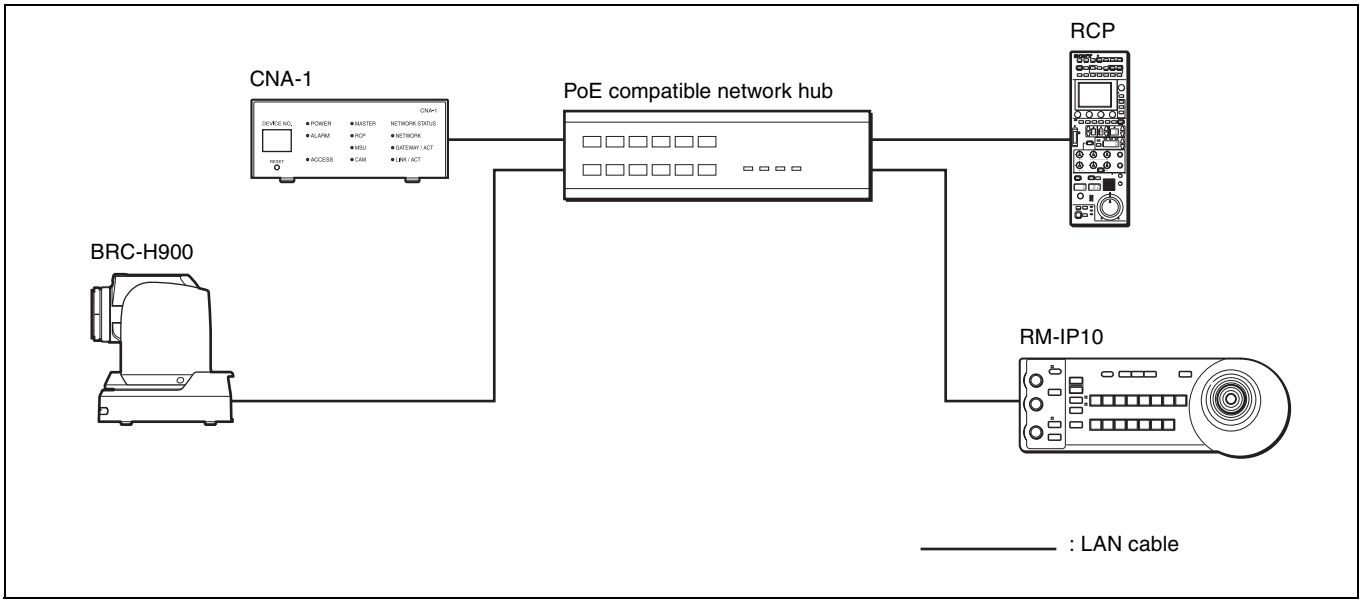
Set “MODE” of “EXPOSURE” of the BRC-H900 to “MANUAL” to enable the control for IRIS, Gain, Shutter. Set “WHITE BALANCE” of “COLOR” of the BRC-H900 to “MANUAL” to enable the control for white balance.

Note

These settings are not stored when you change the settings. To store the settings, use the presetting feature of the BRC-H900.

Setting the Camera Network System

When controlling the BRC-H900 one-to-one from RCP



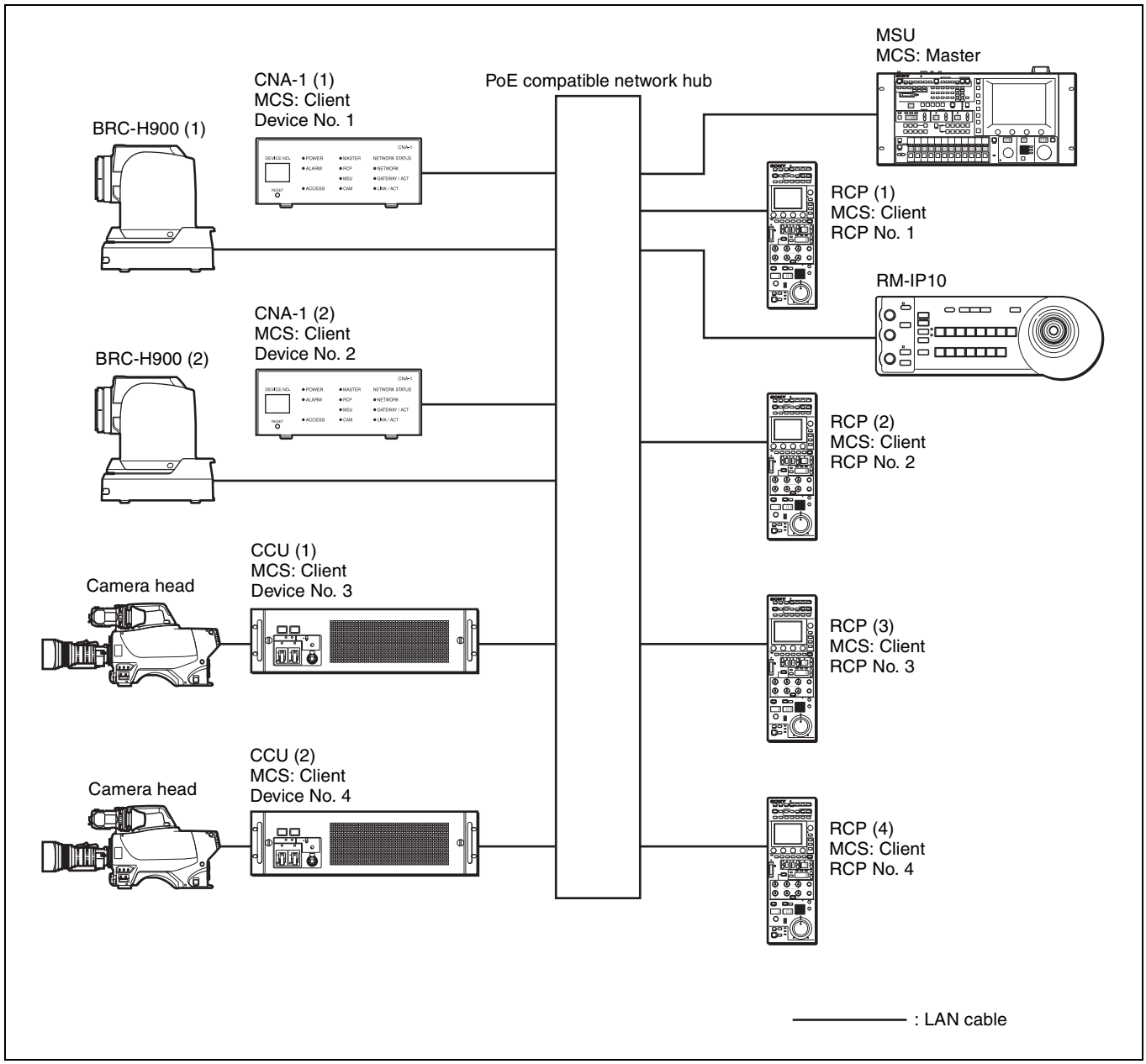
CNA-1 setup

CNS Configuration	CNS Mode	Bridge
	Master Mode	Disable
	Master IP Address	No need to input
	Target IP Address	No need to input
Gateway Configuration	Gateway Mode	Enable
	Emulation Mode	CAM
	Panel Active Function	Disable
	VISCA Gateway	Enable
	VISCA Target IP Address	IP address of the BRC-H900

RCP setup

Network	CNS	Bridge
	Bridge Mode	Semi-Auto
	Bridge Target	IP address of the CNA-1

When operating a multi-camera system



CNA-1 setup

CNS Configuration	CNS Mode	MCS
	Master Mode	Disable
	Master IP Address	IP address of MSU
	Target IP Address	No need to input
	Device No	See “About device number” below.
Gateway Configuration	Gateway Mode	Enable
	Emulation Mode	CAM
	Panel Active Function	Disable
	VISCA Gateway	Enable
	VISCA Target IP Address	IP address of the target BRC-H900

About device number

The device number that is set to the CNA-1 is identified as the camera number from RCP/MSU when operating a multi-camera system.
In the example on the previous page, “BRC-H900 (1) + CNA-1 (1)” is identified as camera 1, “BRC-H900 (2) + CNA-1 (2)” is identified as camera 2. An RCP controls the camera which has the same number as the RCP, and the MSU controls the selected camera, 1 to 4.

Note

You cannot set the same device number to multiple CNA-1s. The device number of each CNA-1 matches that of its related CCU No. You cannot set the number that is already set to CCU to the CNA-1.

CCU/RCP setup

Network	CNS	MCS
	Mode	Client
	Master IP Address	IP address of MSU

MSU setup

Network	CNS	MCS
	Mode	Master

BRC-H900/RM-IP10 setup

See the Operation Guide for Optional IP Control of the BRC-H900.

Controllable Item List

Item	Remarks
Iris	“Close” is not supported because the BRC-H900 does not have the function.
Shutter	1/8000 is not supported because RCP/MSU does not have the function. “Shutter ON/OFF” is not supported because the BRC-H900 does not have the function. 1/60 is used as OFF.
Gain (Master White)	Controlled in 1dB increments for Master White, and 3dB increments for Master Gain.
White R	
White B	
Black R	
Black B	
Master Black	
Auto Black Balance	
User Matrix	
Preset Matrix	STD/FL Light/High-Sat is selectable.
Detail	Level/Frequency/Crispening/HV Ratio/White Limiter/Black Limiter/Knee Apt are supported.
Skin Detail	Only CH1 is supported for Skin Detail. CH2/3 is not supported because the BRC-H900 does not have the function.
Knee	Point Master/Slope Master/Auto Knee are supported.
Knee Saturation	
Auto Knee	
Gamma	Only Master is supported. “Gamma ON/OFF” is not supported because the BRC-H900 does not have the function.
Black Gamma	Only Master is supported. Range selection and “Black Gamma ON/OFF” are not supported because the BRC-H900 does not have the function.
Flicker Reduction	Only ON/OFF and 50/60Hz selection are supported.
Scene file recall/store	Storing/recalling the scene file is the operation that stores/loads preset memory in the BRC-H900. Setting values for pan/tilt/zoom are included in the preset memory of the BRC-H900. The pan/tilt/zoom setting may be changed by performing scene recall. To prevent from changing the pan/tilt/zoom setting, you can select enabling/disabling storing/recalling the scene file by using the setup menu of the CNA-1 > CNS page > 2. Gateway Configuration > VISCA Scene Call Function.

Sony Corporation

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