

# **SONY**

Camera System Management Software  
Help

## **Overview**

Describes the features and configuration of the Camera System Management Software.

## **Settings**

Describes the settings for the network and software required for operating the Camera System Management Software.

## **Basic Operation and Common Displays**

Describes the common operations on each screen (changing settings, expanding or collapsing the screen size, zooming the screen, etc.) of the Camera System Management Software.

## **Control Panel Screen (Control Panel Mode)**

Describes selecting a camera, and checking and controlling parameters.

For details on the settings for parameters, refer to the Operation Manual for the MSU-1000/1500.

## **File Manage Screen (File Management Mode)**

Describes creating a file for camera status, and checking and controlling files.

## **System Manage Screen (System Management Mode)**

Describes checking and controlling parameters for all cameras connected.

Software Version 1.2

HZC-CSM10

4-293-173-15(1)

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# Overview

This section describes the basic information for using the Camera System Management Software.

- [Features](#)
- [Recommended Operating Environment](#)
- [Connectable Devices](#)
- [System Configuration](#)

[Back to Top](#)



# Features

This application is the software to enable the user to make settings and control Sony video cameras for studio or OB VAN from a Windows PC. Besides operating each camera, browsing the status of the connected cameras, managing files, etc. are enabled. For some menus, camera status can be stored in CSV format to save the management records.

This application has three modes, and each mode includes several menus.

- Control Panel Mode
  - Operation Menu
  - Paint Menu
  - Maintenance Menu
  - Configuration Menu
- File Management Mode
  - Scene File Menu
  - Snap File Menu
  - Other Files Menu
- System Management Mode
  - Overview Menu
  - Cable Condition Menu
  - RCP Assignment Menu
  - Diagnosis Menu

- Control Panel Mode  
Parameters for a single camera are checked and controlled. Parameters of a camera are listed by category.
  - Operation Menu  
For checking and controlling basic parameters of a camera.
  - Paint Menu  
For checking and controlling parameters for paint of a camera.
  - Maintenance Menu  
For checking and controlling parameters for maintenance of a camera.
  - Configuration Menu  
For making settings for a camera.
  
- File Management Mode  
For managing files of a camera.
  - Scene File Menu  
For managing scene files of a camera. Checking and editing the contents of files are enabled.
  - Snap File Menu  
For creating a file for the status of all connected cameras. Status stored in a file can be read.
  - Other Files Menu  
For managing files other than scene files. Checking and editing are not enabled.

- System Management Mode

Status of the connected cameras can be browsed.

- Overview Menu

For browsing, comparing, and controlling parameters of all connected cameras.

- Cable Condition Menu

For checking the status of optical cables of cameras, CCUs and BPU's that have optical transmission functions.

- RCP Assignment Menu

For assigning cameras and CCUs to be controlled to RCPs.

- Diagnosis Menu

For browsing diagnosis. Service information such as model name, serial number, etc. can be checked.

[Back to Top](#)



# Recommended Operating Environment

## Operating System

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Windows 7 English version (with Service Pack 1 and .NET Framework 3.5.1 installed)

- Professional: 32-/64-bit
- Ultimate: 32-/64-bit

Windows 8.1 English version (with .NET Framework 4.5 installed)

- Windows 8.1 Pro: 32-/64-bit

Windows 10 English version (with .NET Framework 4.5.1 installed)

- Windows 10 Pro: 32-/64-bit

## Hardware

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Memory: 2 GB or more

With LAN interface equipped

A monitor with resolution of 1024 x 768 pixels or higher

CPU with clock rate of 1 GHz or more

## Firewall

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This application communicates with cameras via TCP/IP.

The communication port for this application must not be

closed with OS or security software such as a firewall.

## Notes

- Connections using the Internet or an Intranet may cause problems of competition with other traffic or security, and sufficient performance may not be obtained. For stable system operation, it is recommended to configure a separate network.
- To avoid disconnection of transmission, be sure to set the power-saving function of a PC to OFF. The power-saving function of a monitor does not affect transmission.
- Wireless LAN connection may cause unstable status in some environments.

[Back to Top](#)



## Connectable Devices

This application supports the devices below.

- HDCU1000/2000 series, HDCU3300(R), HDCU4300
- BPU4000/4500
- HSCU-300
- HSCU-E80
- HDC-P1

If connected in MCS mode, an MSU-1000, MSU-1500 or CNA-1 is required as a master device.

### **Maximum number of devices to be connected**

In MCS mode, the maximum number of devices to be connected to this system is as shown below.

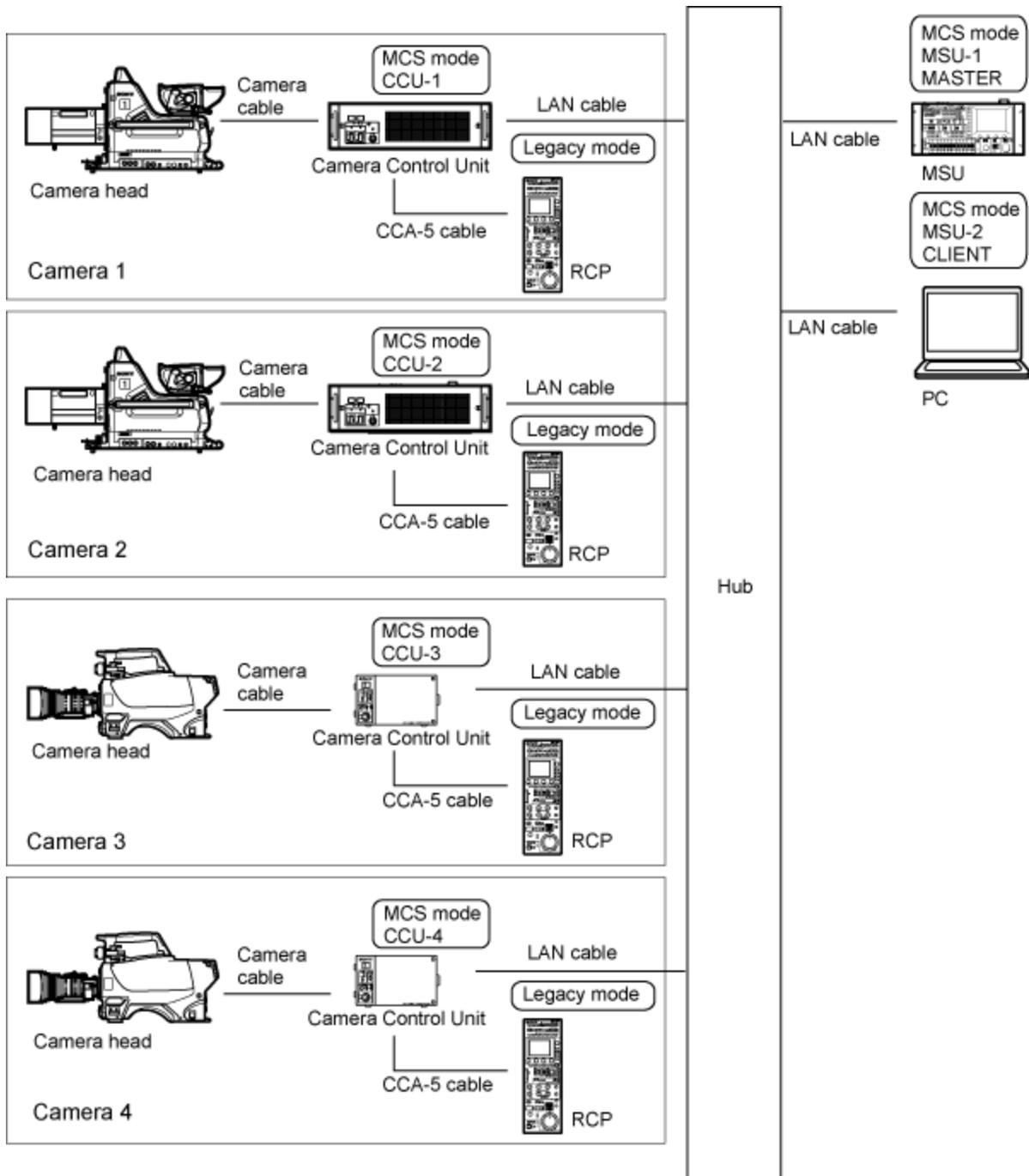
- Up to 48 pairs of cameras and CCUs
- Up to 2 PCs with this application installed
- Up to 96 cameras, CCUs, RCPs, client MSUs, and PCs with this application installed in total that can be directly connected via LAN

[Back to Top](#)

## **System Configuration**

This software functions as a client MSU on the camera network. When used in MCS mode, use the MSU-1000/1500 as a master unit.

As this application does not work in Legacy mode, this cannot be used with a CNU.



[Back to Top](#)

# Settings

This section describes the settings required for using the Camera System Management Software.

- [Network Settings](#)
  - [Settings Under the \[CNS\] Tab](#)
  - [Settings Under the \[Network\] Tab](#)
- [Software Settings](#)
  - [Settings Under the \[Panel\] Tab](#)
  - [Settings Under the \[Permission\] Tab](#)

[Back to Top](#)



# Network Settings

Select [Property] from the Tool menu and make settings for the network under the [CNS] tab and [Network] tab.

## Settings Under the [CNS] Tab

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Click the [CNS] tab on the Property screen. Settings for the connection mode and those required for each mode are made on this screen.

Bridge mode setting block

The screenshot shows a 'Property' dialog box with a 'CNS' tab selected. The dialog is divided into two main sections: 'Bridge mode' and 'MCS mode'. The 'Bridge mode' section is currently selected and highlighted with a red border. It contains a radio button for 'Bridge mode', a 'Target IP Address' label, a 'Comment' text box, an 'IP Address' text box, and 'Registration' and 'Delete' buttons. The 'MCS mode' section is also highlighted with a red border and contains a radio button for 'MCS mode', a 'Master/Client mode' section with 'Master' and 'Client' radio buttons, a 'Master IP Address' label, a 'Comment' text box containing 'Studio 2', an 'IP Address' text box with the value '192.168.0.200', 'Registration' and 'Delete' buttons, and an 'MSU No.' text box with the value '96' and a range '(1~96)'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

MCS mode setting block

## Connection in Bridge mode

1. Set the [Bridge mode] radio button to ON.
2. Enter the IP address of the device to be connected in the [IP Address] box of [Target IP Address].

3. If you wish to specify a name, enter the name of the device to be connected in the [Comment] box of [Target IP Address].
4. Click the [Registration] button.  
The settings are registered.
5. Click the [OK] button.  
The settings are fixed.  
Once the application is rebooted, the settings are enabled.

### **To cancel the settings**

Click the [Cancel] button in Step 5.

### **To select from the registered addresses**

If multiple addresses are registered, click  and select the address to be set from the drop-down list.

## To delete a registered address

1. Click  and select an address to be deleted from the drop-down list.
2. Click the [Delete] button.  
The address is deleted.

## Connection in MCS mode

1. Set the [MCS mode] radio button to ON.  
[Master/Client mode] is fixed to [Client].
2. Enter the IP address of the device to function as a master in the [IP Address] box of [Master IP Address].
3. If you wish to specify a name, enter the name of the device to be connected in the [Comment] box of [Master IP Address].
4. Click the [Registration] button.  
The settings are registered.
5. Enter the MSU number in the [MSU No.] box.  
A PC with this software installed functions as an MSU on the network. Do not set the same MSU number as that of any other MSU.
6. Click the [OK] button.  
The settings are fixed.  
Once the application is rebooted, the settings are enabled.

### **To cancel the settings**

Click the [Cancel] button in Step 6.

### **To select from the registered addresses**

If multiple addresses are registered, click  and select the address to be set from the drop-down list.

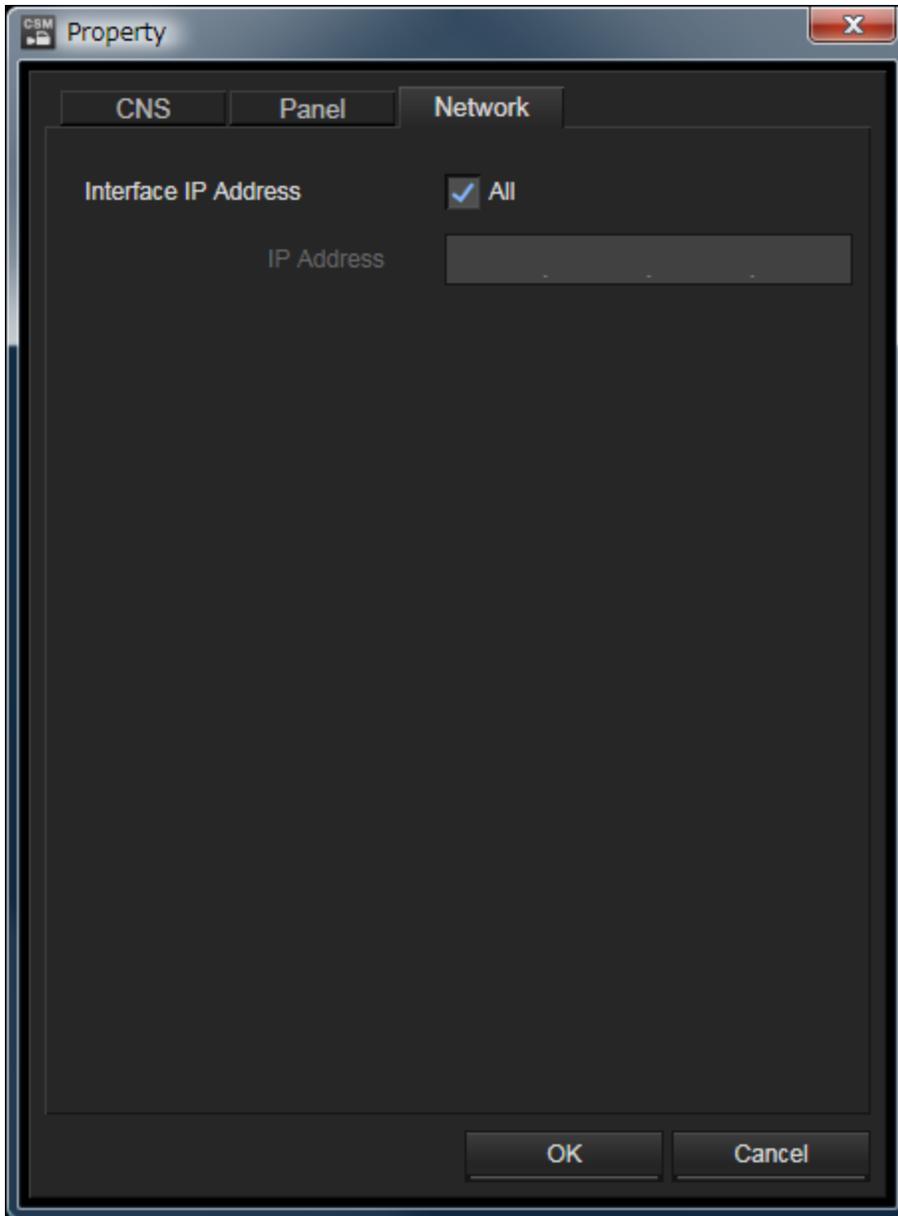
## **To delete a registered address**

1. Click  and select an address to be deleted from the drop-down list.
2. Click the [Delete] button.  
The address is deleted.

## **Settings Under the [Network] Tab**

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Click the [Network] tab on the Property screen. The network to be used should be set if a PC has multiple network connections. As default, the [All] check box is checked, and all networks can be used for communication.



If only a specific network is to be used, set the IP address for the communication port to be used, following the steps below.

1. Clear the [All] check box.
2. Enter the IP address for the communication port to be used in the [IP Address] box.
3. Click the [OK] button.

**To cancel the IP address entered**

Click the [Cancel] button.

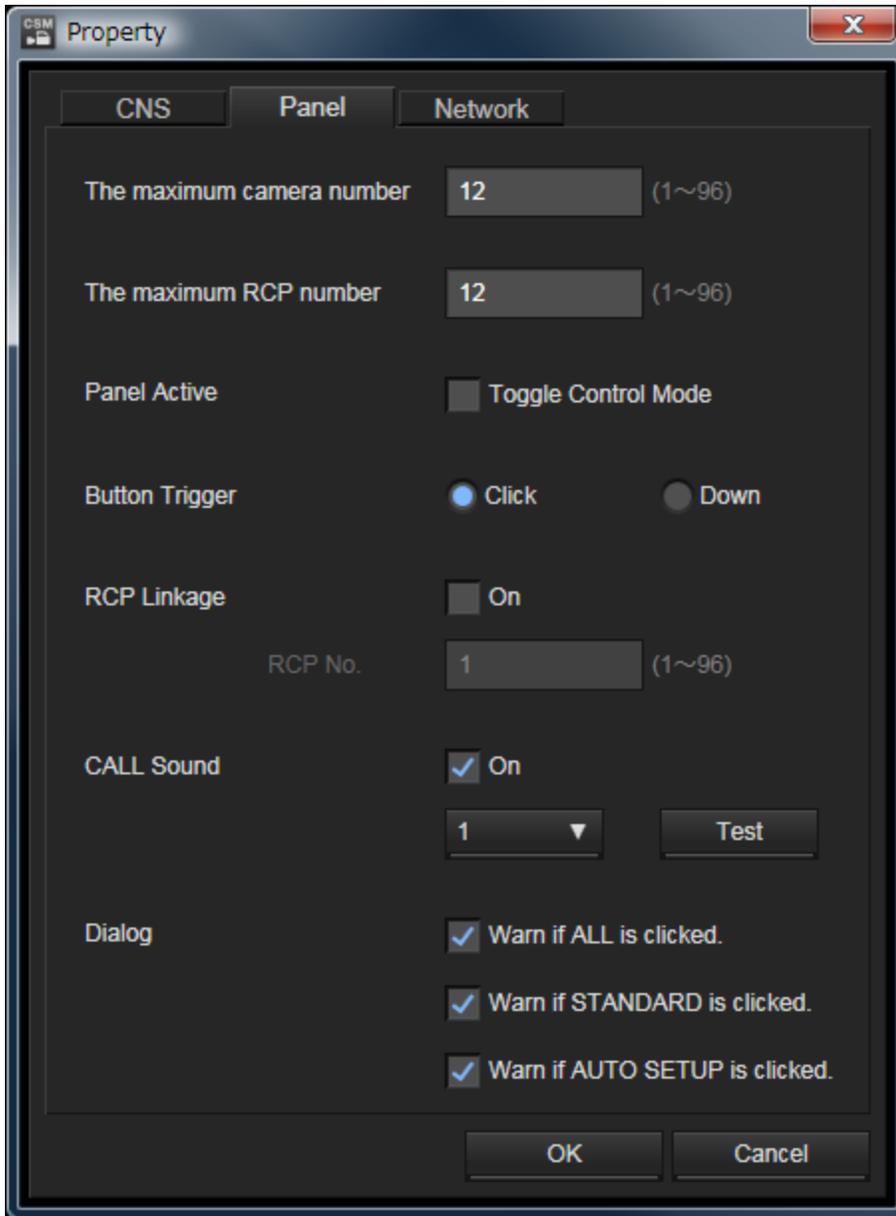
[Back to Top](#)



# Software Settings

## Settings Under the [Panel] Tab

Select [Property] from the Tool menu then click the [Panel] tab.



- The maximum camera number  
Enter the maximum number of cameras to be controlled with this application.
- The maximum RCP number  
Enter the maximum number of RCPs to be controlled with this application.
- Panel Active  
As standard default, no panel is permitted to control a camera if the [Panel Active] button in the camera select block is pressed to make it go dark. If the [Toggle Control Mode] check box is checked (toggle mode), the panel active permission is returned to the panel that had the control permission when it was made panel active by clicking the [Panel Active] button. The box is unchecked as default.
- Button Trigger  
For setting the timing for reflecting the clicking operation of a mouse. This setting is valid for the buttons related to the functions and operations of a camera or CCU.  
On Windows, the action of clicking a mouse is recognized when the mouse button is released. This may cause a feeling of operation lag. This action can be reversed.  
Click: The action is recognized when the mouse button is released (standard).  
Down: The action is recognized when the mouse button is pressed.

- RCP Linkage

This function is to automatically tail the camera controlled with a specific RCP when the camera is selected. For example, if this application selects Camera 3, the specified RCP automatically selects Camera 3. It is enabled that the RCP control the iris while other settings are made with this application. To avoid malfunction, panel active of the RCP is disabled when the RCP selects the camera.

- CALL Sound

For setting the call tone.

If the [On] check box is checked, the type of the call tone can be selected by pressing the  button.

[Test]: When clicked, a test tone sounds.

- Dialog

For setting a warning display.

Warn if ALL is clicked.: A warning display appears when the ALL function is enabled.

Warn if STANDARD is clicked.: A warning display appears when STANDARD is reflected.

Warn if AUTO SETUP is clicked.: A warning display appears when AUTO SETUP is activated.

## **Reflecting the settings**

1. Click the [OK] button.

## **Cancelling the settings**

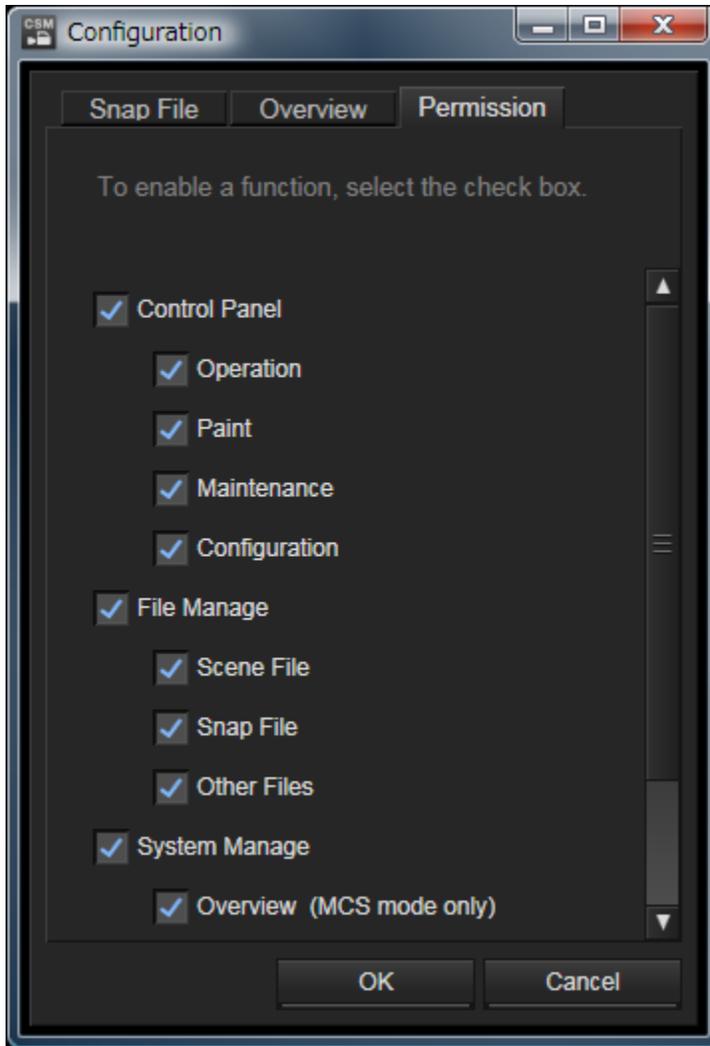
1. Click the [Cancel] button.

## **Settings Under the [Permission] Tab**

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The menus used in this application can be selected. When a check box is unchecked, the corresponding menu will not be displayed.

1. Select [Configuration] from the Tool menu.  
The Configuration screen opens.
2. Click the [Permission] tab.
3. Clear the check box for the item that is not displayed.
4. Click the [OK] button.  
A menu whose check is cleared will not be displayed.



[Back to Top](#)

# Basic Operation and Common Displays

This section describes operations and displays common on screens for Camera System Management Software.

- [Changing a Value](#)
- [Clearing a Setting](#)
- [Expanding or Collapsing the Panel Display](#)
- [Zooming the Display](#)
- [Displaying Diagnosis](#)

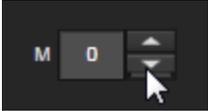
[Back to Top](#)



## Changing a Value

There are three ways for changing the value in the box.

### Clicking the up or down triangle mark



**Note**

Clicking is for fine adjustment and may not change the displayed value. To change the value substantially, keep the up or down triangle mark pressed or enter the value with the mouse, following "Entering with the mouse."

## Entering the value directly

1. Click the numeric box.  
The box is in enter mode.
2. Enter the value from the keyboard.
3. Press the Enter key on the keyboard to fix the value.



## Notes

- If the box is not set to enter mode by your clicking the box, the value cannot be entered directly.
- Do not enter a value outside the variable range.

## Entering with the mouse

1. Place the cursor on the numeric box.  
The cursor changes to left and right arrows.
2. Move the mouse left and right with the left button held down.  
The value changes.



**Note**

If the cursor does not change to left and right arrows, the value cannot be changed with this way.

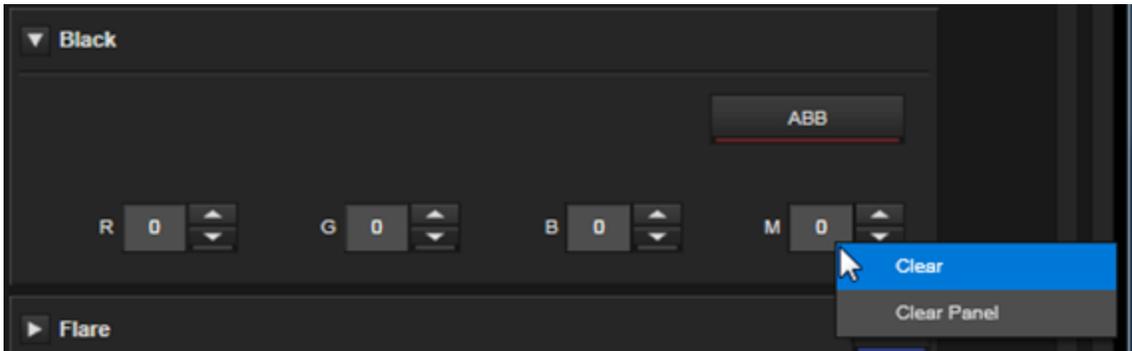
[Back to Top](#)



# Clearing a Setting

The set value can be cleared, as described below.

1. Right-click the numeric box.  
A context menu opens.



2. Select an item to be cleared.  
Clear: The value for the clicked item (the value for M (master black) in the figure above) will be cleared.  
Clear Panel: All values in this area (the values for R, G, B, M (master black) in the figure above) will be cleared.

## Notes

- If the context menu does not open in Step 1, the value cannot be cleared.
- Even if the context menu is displayed, some devices do not have the function to clear the value. In such a case, the value cannot be cleared.

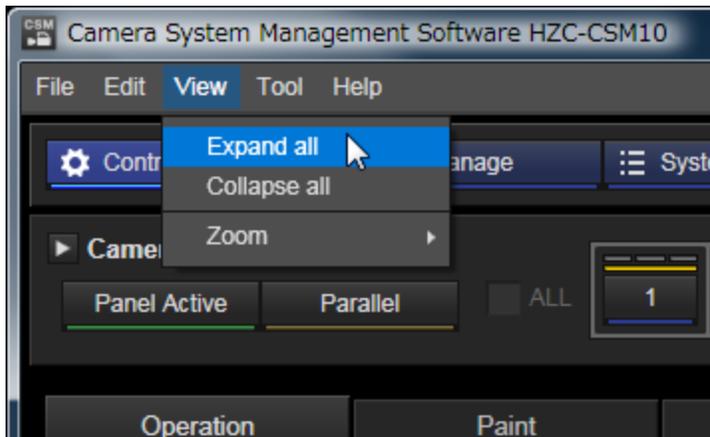
[Back to Top](#)

# Expanding or Collapsing the Panel Display

All function panels can be expanded or collapsed together.

1. Click the View menu.

A submenu opens.



2. To expand function panels, click [Expand all].  
To collapse function panels, click [Collapse all].

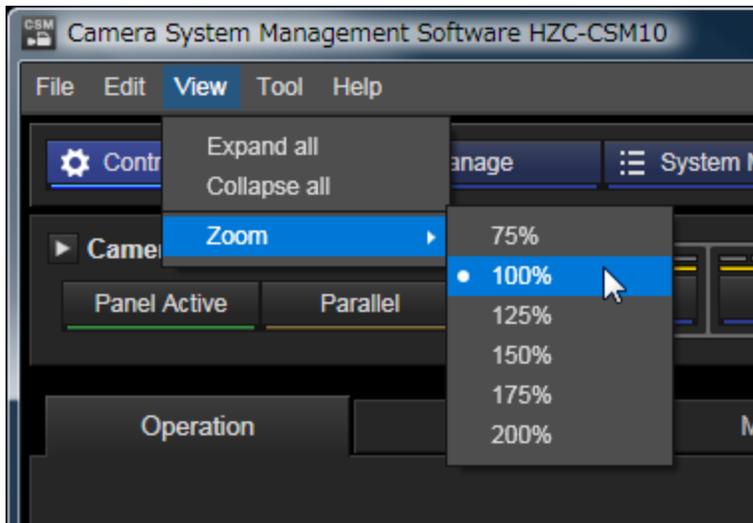
[Back to Top](#)

# Zooming the Display

The display can be zoomed. The display size can be set for each tab.

1. Click the View menu.

A submenu opens.

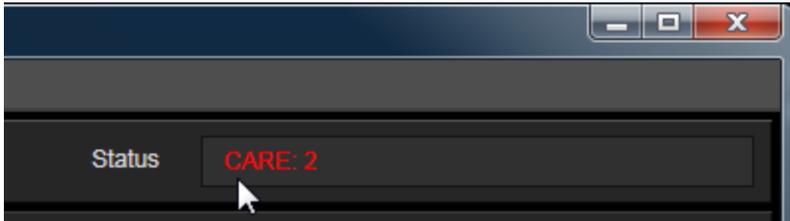


2. Select [Zoom] then the zoom factor.

[Back to Top](#)

## Displaying Diagnosis

If a camera or CCU generates diagnosis information, a message like the one shown below is displayed in red.



Click the displayed part. The Diagnosis screen opens.

[Back to Top](#)

## Control Panel Screen (Control Panel Mode)

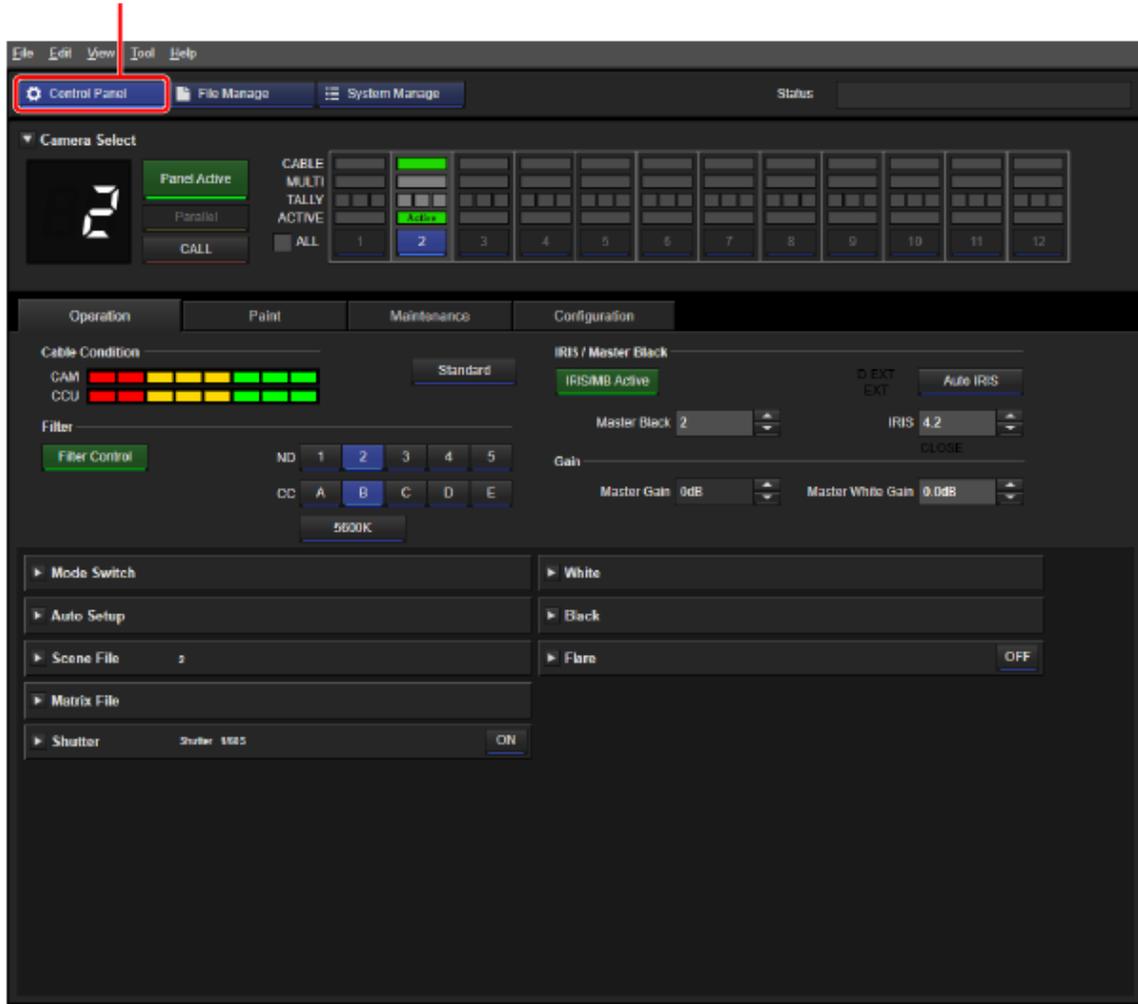
This section describes the Control Panel Screen (Control Panel Mode).

- [Operation Menu](#)
- [Paint Menu](#)
- [Maintenance Menu](#)
- [Configuration Menu](#)

Click the [Control Panel] button at the upper left in the window. The Control Panel screen will open. On the Control Panel screen, selecting a camera and checking and controlling parameters for the camera can be performed.

For details on the settings for parameters, refer to the Operation Manual for the MSU-1000/1500.

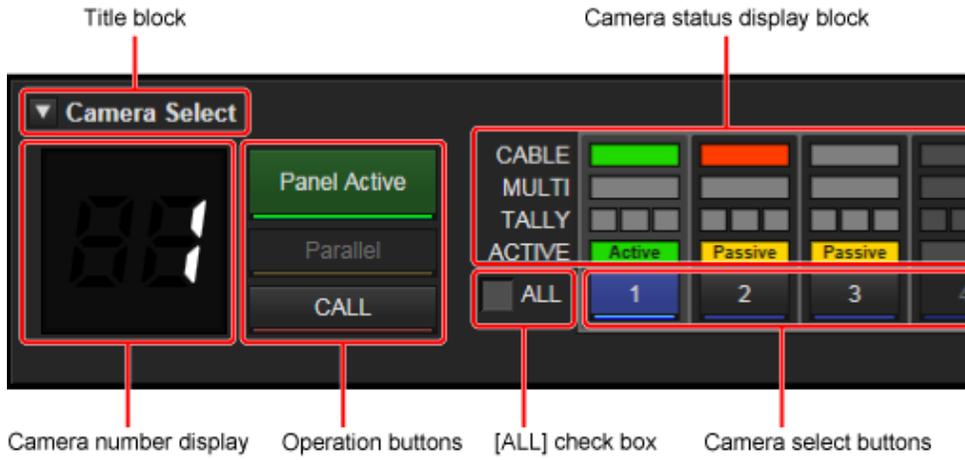
[Control Panel] button



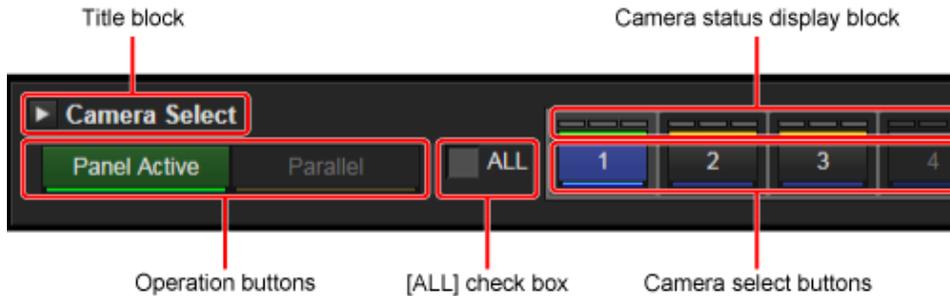
## Camera Select Block

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# Expanded display



## Collapsed display



- Title block  
Clicking this block makes the camera select block expand or collapse.
- Camera status display block  
Displays the camera status.  
On the collapsed display, only [TALLY] and [ACTIVE] are displayed.  
[CABLE]: Shows the status of the camera cable. Green display indicates normal, yellow display indicates caution, and red display indicates warning.  
[MULTI]: Various items, such as the status of auto setup, are displayed.  
[TALLY]: Lights when a tally signal is input.  
[ACTIVE]: Indicates that the panel is in panel active status.
- Camera number display (expanded display only)  
Shows the number of the selected camera.
- Operation buttons  
[Panel Active]: Panel active is enabled or disabled. Only in panel active status, this application can control camera parameters.  
[Parallel]: If the button is clicked when this application was not in panel active status, functions other than iris and

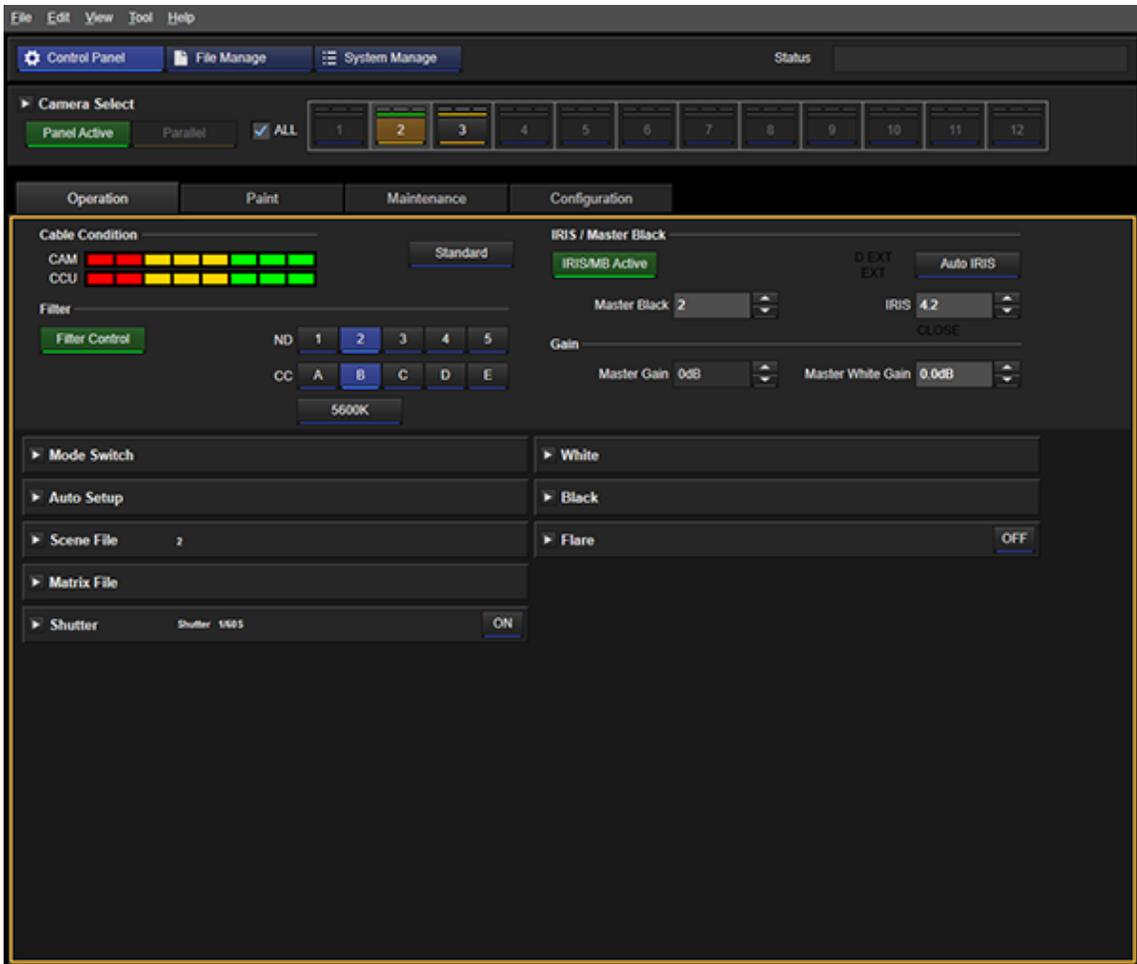
master black can be controlled with both this application and active panel. This lights when this application is in panel active status, and another panel is in parallel status. If the button is clicked under such status, the parallel status of the other panel will be cancelled.

[CALL] (expanded display only): Sends the call tone to the selected devices. The camera select button and camera status display for the camera that receives the call tone are enclosed in a red frame.



- [ALL] check box

The ALL function is enabled for the Operation menu and Paint menu on the Control Panel screen. When the [ALL] check box is checked, all connected cameras are linked. The settings such as the ON/OFF setting of a switch and numeric values are linked. When the [ALL] check box is checked, the color of the camera select button changes to amber and the lower part of the screen is enclosed in an amber frame.



The switching function of the button is linked so that all cameras are set to the switched status. As for the value in the numeric box, the value for all cameras relatively changes by the difference. If the value exceeds the maximum or minimum value of variable range, the exceeded value cannot be retrieved. If the value is directly entered in the numeric box, the value is set for all cameras.

## Note

For the ALL function, all cameras should have the same functions. So the same model must be used.

- Camera select buttons

Click to select the camera to be controlled.

Double-clicking the button makes panel active enabled or disabled. The camera select button to which no camera is connected is dimmed.

Right-clicking opens the context menu.

[Active]: Panel active is enabled or disabled.

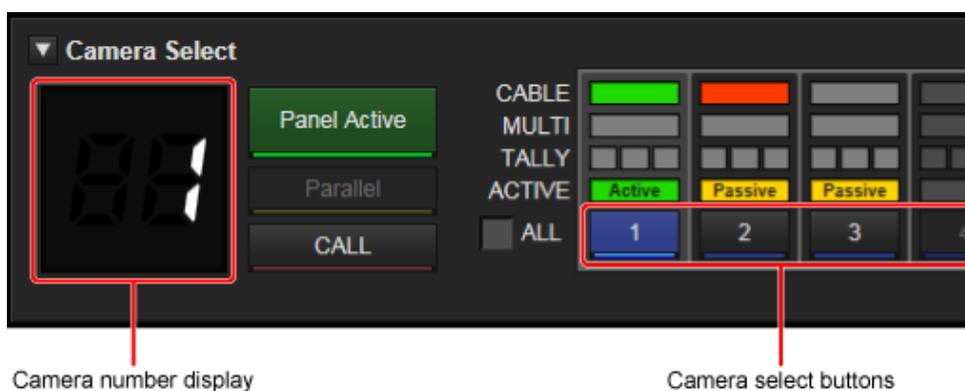
[Parallel]: Functions other than iris and master black can be controlled with both this application and active panel.

[CALL] (collapsed display only): Sends the call tone to the selected devices.

## Selecting a Camera

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Click the camera select button. On expanded display, the selected camera number is displayed on the camera number display.





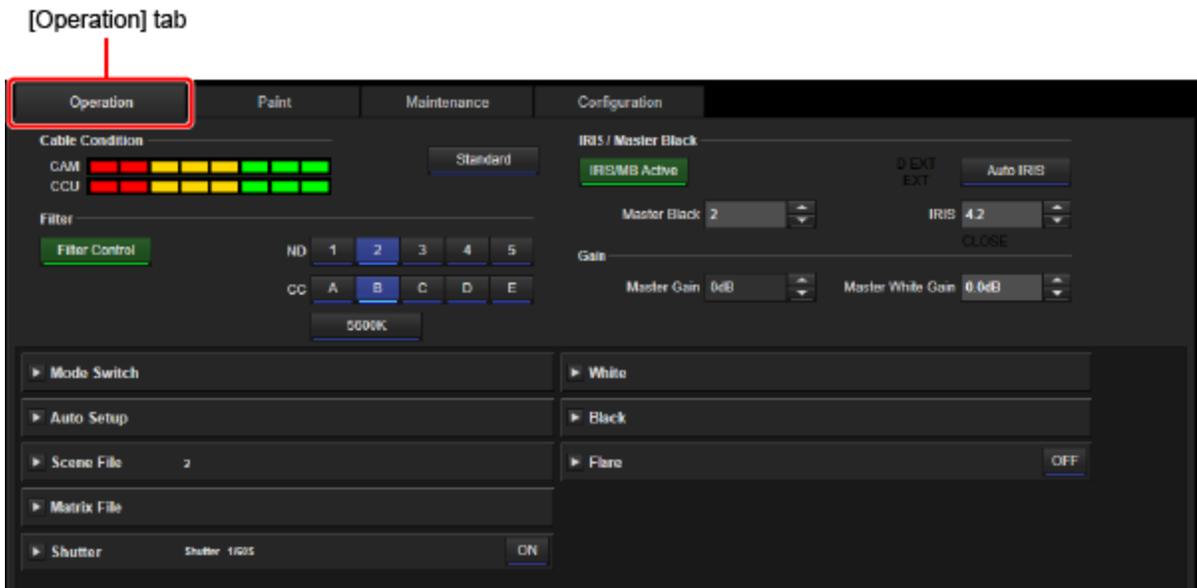
Camera select buttons

[Back to Top](#)



# Operation Menu

Clicking the [Operation] tab opens the Operation menu. On this menu, basic parameters for a camera can be checked and controlled.



For details on the settings for parameters, refer to the Operation Manual for the MSU-1000/1500.

## Selecting a Camera

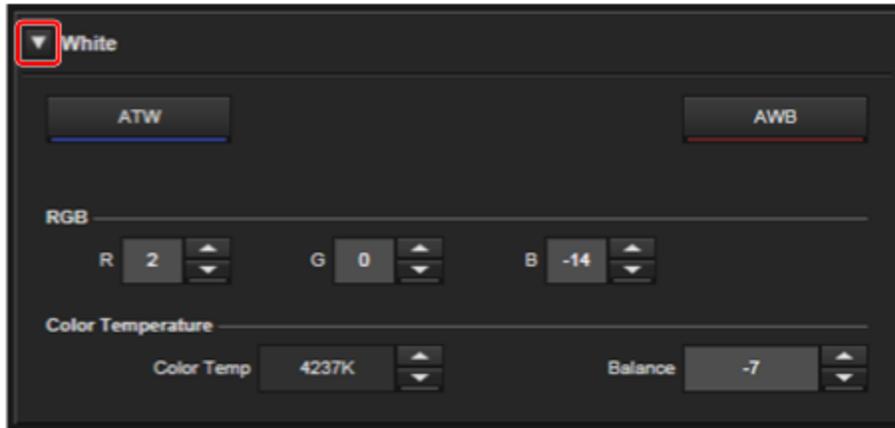
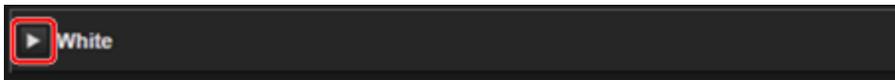
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See "[Selecting a Camera](#)" in "Control Panel Screen (Control Panel Mode)."

## Expanding or Collapsing the Function Panels

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Click  for each function panel to expand it or  to collapse it.



When the panel is expanded, detailed information for each function can be checked. Even if the panel is collapsed, button operation is enabled for some function panels.



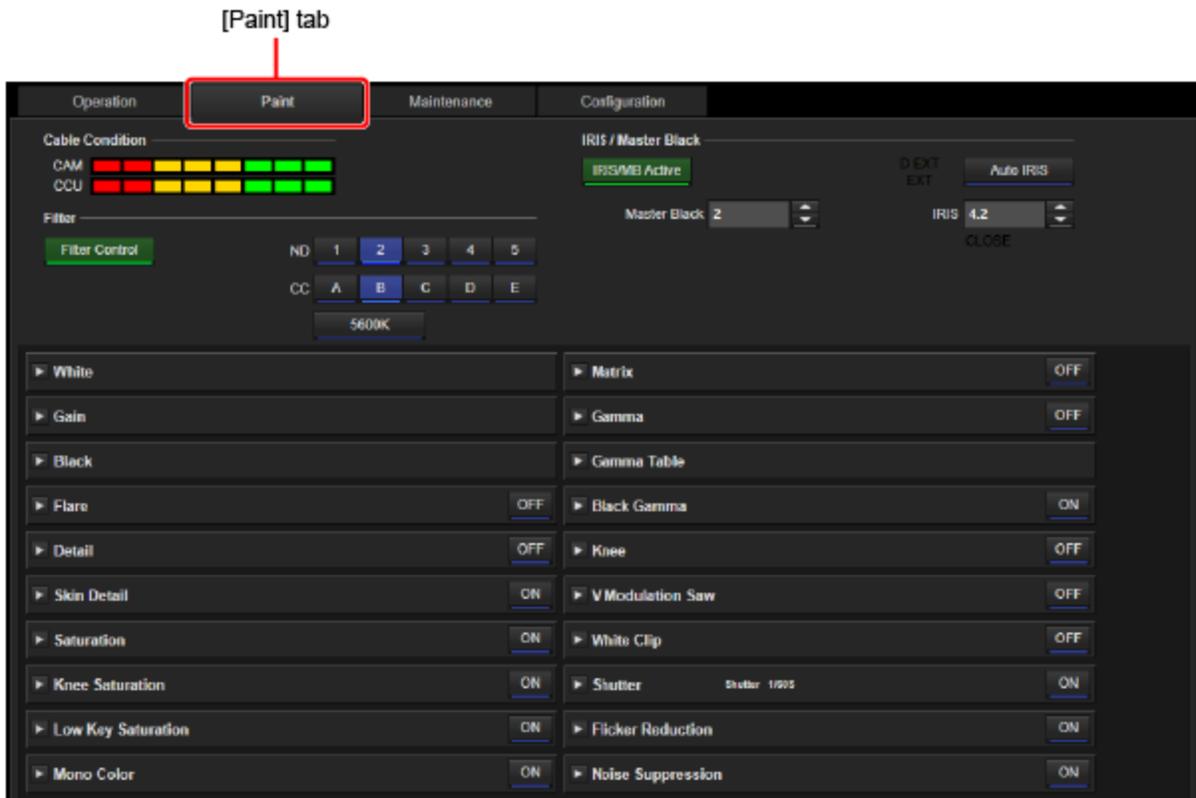
When the panel is collapsed, the current setting status lights. The display above shows that the current Flare setting is OFF.

[Back to Top](#)



# Paint Menu

Clicking the [Paint] tab opens the Paint menu. On this menu, paint parameters for a camera can be checked and controlled.



For details on the settings for parameters, refer to the Operation Manual for the MSU-1000/1500.

## Selecting a Camera

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See "[Selecting a Camera](#)" in "Control Panel Screen (Control Panel Mode)."

## Expanding or Collapsing the Function Panels

---

Click  for each function panel to expand it or  to collapse it.

When the panel is expanded, detailed information for each function can be checked. Even if the panel is collapsed, button operation is enabled for some function panels. When the panel is collapsed, the current setting status lights.

[Back to Top](#)



# Maintenance Menu

Clicking the [Maintenance] tab opens the Maintenance menu. On this menu, maintenance parameters for a camera can be checked and controlled.



For details on the settings for parameters, refer to the Operation Manual for the MSU-1000/1500.

## Selecting a Camera

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See "[Selecting a Camera](#)" in "Control Panel Screen (Control Panel Mode)."

## Expanding or Collapsing the Function Panels

---

Click  for each function panel to expand it or  to collapse it.

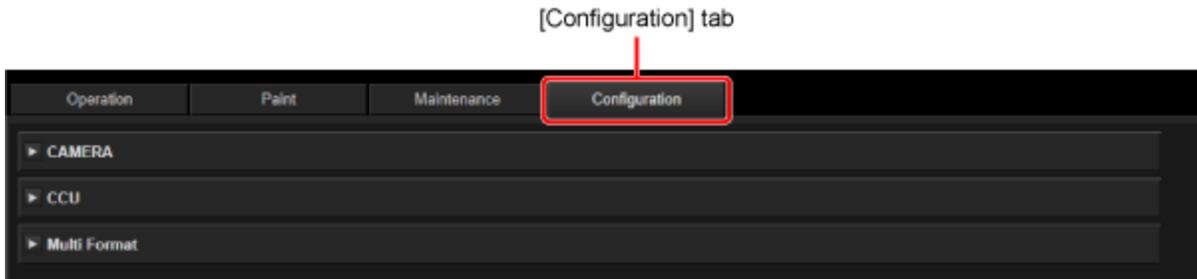
When the panel is expanded, detailed information for each function can be checked. Even if the panel is collapsed, button operation is enabled for some function panels. When the panel is collapsed, the current setting status lights.

[Back to Top](#)



# Configuration Menu

Clicking the [Configuration] tab opens the Configuration menu. On this menu, configuration parameters for a camera can be checked and controlled.



For details on the settings for parameters, refer to the Operation Manual for the MSU-1000/1500.

## Selecting a Camera

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See "[Selecting a Camera](#)" in "Control Panel Screen (Control Panel Mode)."

## Expanding or Collapsing the Function Panels

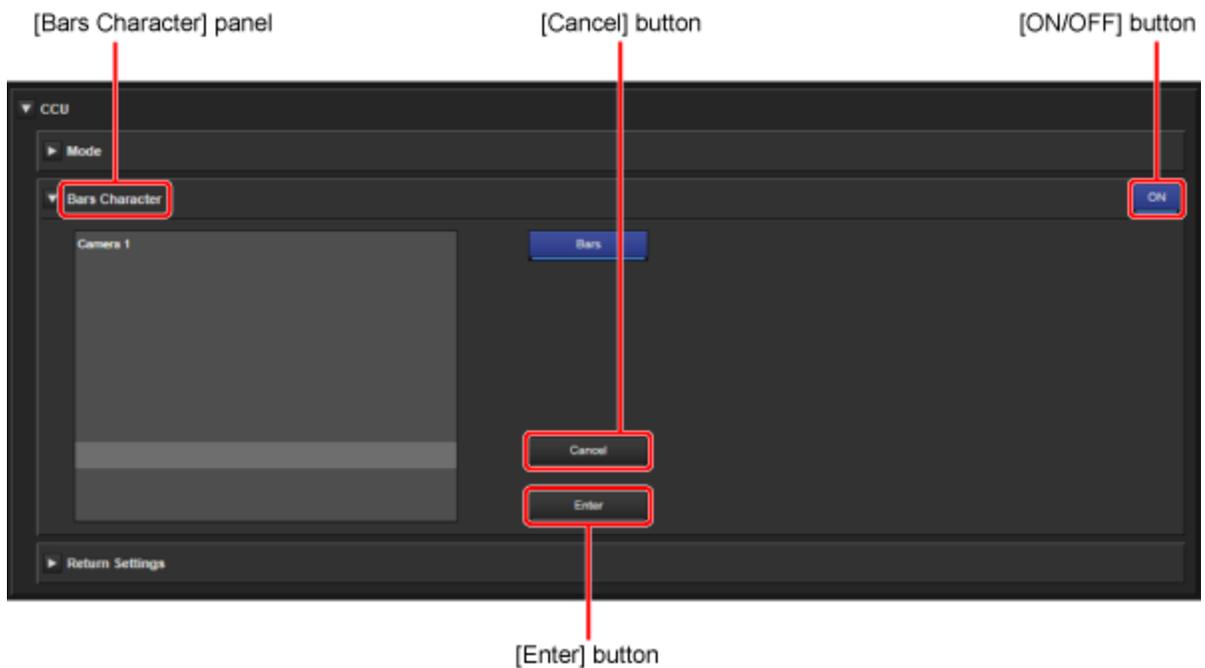
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Click  for each function panel to expand it or  to collapse it.

When the panel is expanded, detailed information for each function can be checked. Even if the panel is collapsed, button operation is enabled for some function panels. When the panel is collapsed, the current setting status lights.

## Setting Characters Inserted in the Color Bar

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Characters inserted in the color bar can be set in [Bars Character] on the CCU function panel.

Characters that can be entered depend on the CCU.

1. Click the part where the characters are to be inserted.
2. Enter the characters to be inserted.
3. Click the [Enter] button.  
The entered characters are fixed.
4. Set [Bars Character] to [ON].  
The set characters are inserted in the color bar.

## **To cancel the character insertion**

Click the [Cancel] button in Step 3.

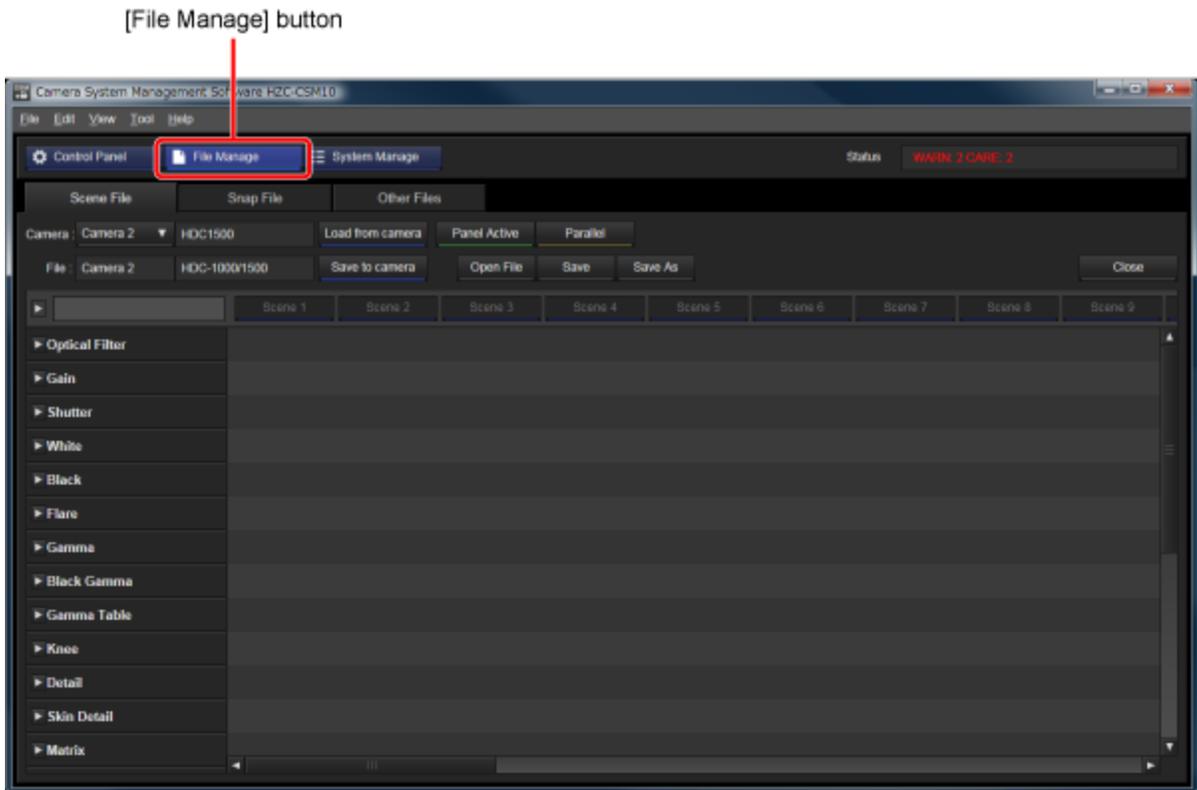
[Back to Top](#)

# File Manage Screen (File Management Mode)

This section describes the File Manage Screen (File Management Mode).

- [Scene File Menu](#)
- [Snap File Menu](#)
- [Other Files Menu](#)

Click the [File Manage] button at the upper left in the window. The File Manage screen opens. On the File Manage screen, a file storing camera status can be created, or files can be checked and managed.

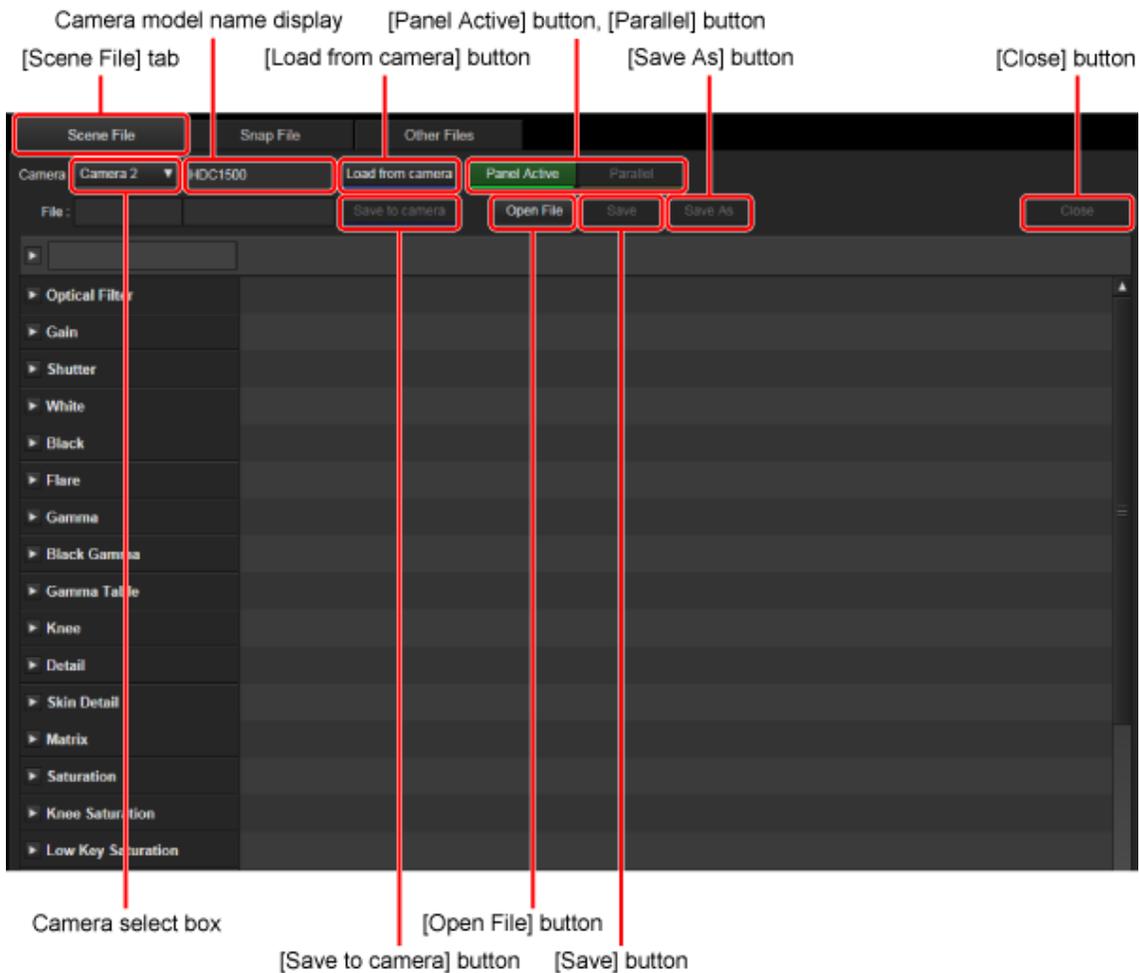


[Back to Top](#)



# Scene File Menu

Clicking the [Scene File] tab opens the Scene File menu. Scene files of cameras can be checked and edited.



- [Panel Active] button, [Parallel] button  
Makes panel active and parallel functions enabled or disabled.  
[Panel Active]: Panel active is enabled or disabled.  
[Parallel]: If the button is clicked with the parallel function enabled, the function is disabled. If the button is clicked with the parallel function disabled and another panel is in panel active status, the parallel function is enabled.

## Managing, Checking, and Editing Scene Files Stored in a Camera

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### Transferring scene files from a camera

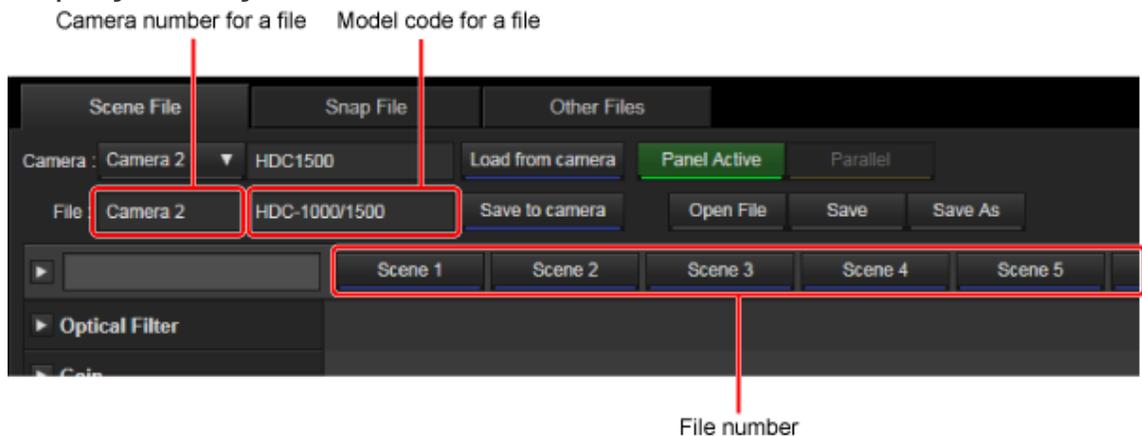
1. Select a camera from the drop-down list opened from the camera select box.

When a camera is selected, the name is displayed on the right.

2. Click the [Load from camera] button.

Scene files are transferred from the camera. Once files are transferred, the screen returns to the status of before the scene file was read.

If the contents of the selected camera and the displayed contents are different, the camera number for the file is displayed in yellow.



### Reading scene files

When panel active or parallel is enabled, click the file number button corresponding to a scene file to be read. The scene file stored in the camera can be read. When a scene file is read, the corresponding scene file number button lights. Click the lit

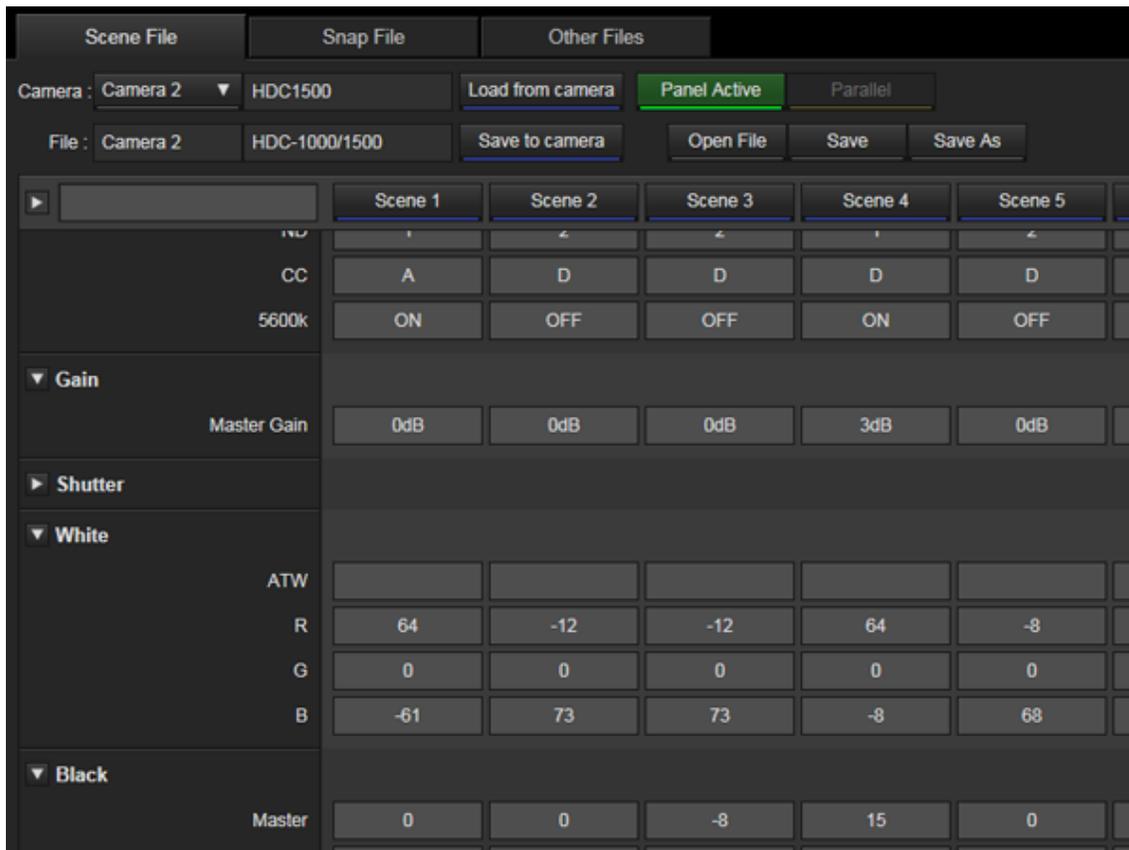
file number button. The scene file will return to its status before being read.

### Note

Once the file is edited, the file number button is disabled, and the file cannot be read.

## Checking the contents of a scene file

Click  or select [Expand all] of the View menu to display and check the contents.



The screenshot shows a camera control interface with a table of scene settings. The interface includes tabs for 'Scene File', 'Snap File', and 'Other Files'. Below these are controls for 'Camera' (Camera 2, HDC1500) and 'File' (Camera 2, HDC-1000/1500). A 'Panel Active' button is highlighted in green. The main table has columns for 'Scene 1' through 'Scene 5' and rows for various camera parameters.

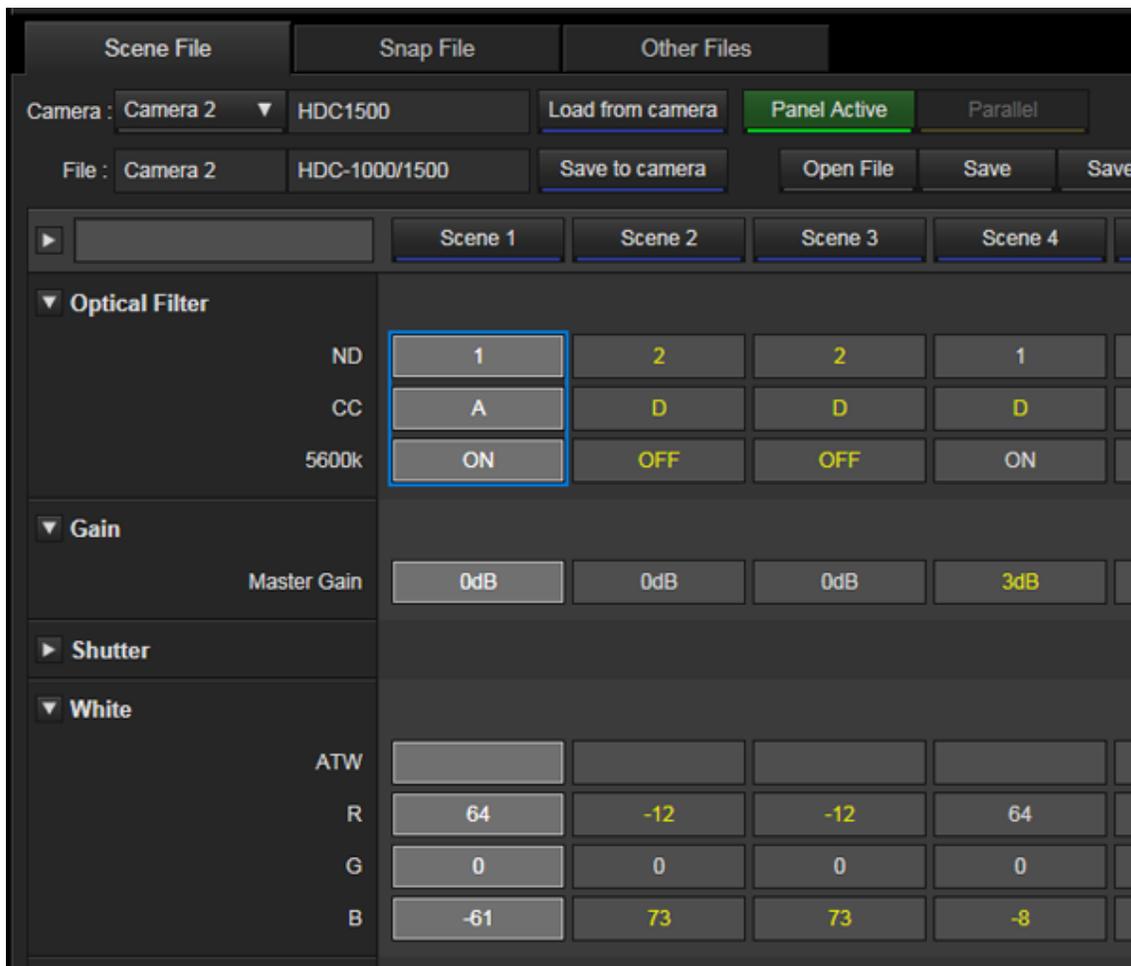
	Scene 1	Scene 2	Scene 3	Scene 4	Scene 5
CC	A	D	D	D	D
5600k	ON	OFF	OFF	ON	OFF
Gain					
Master Gain	0dB	0dB	0dB	3dB	0dB
Shutter					
White					
ATW					
R	64	-12	-12	64	-8
G	0	0	0	0	0
B	-61	73	73	-8	68
Black					
Master	0	0	-8	15	0

## Note

Some cameras do not have certain functions specified in a file.

## Comparing the contents of scene files

If you click the contents of a scene file, the contents of the files can be compared.



The settings for a selected scene file that are standard are displayed in white, and those different from the standard values are displayed in yellow.

## Editing a scene file

Contents of a scene file can be copied for each item block. For copying, there are two methods.

Method 1:

Drag and drop the blue part in the figure above to copy it to another file.

Method 2:

1. Click a part to be copied.
  2. Click the Edit menu on the menu bar then click [Copy].
  3. Click the part where the contents are to be copied.
  4. Click the Edit menu on the menu bar then click [Paste].
- The blue part in the figure above is copied to the scene file selected in Step 3.
- The edited part is enclosed in a white frame.

## **To cancel copying**

Copy can be cancelled only one time. Click the Edit menu on the menu bar then click [Undo].

## **To store the edited contents**

After editing a file on a PC with the procedures above, store it in a camera or on a PC. If it is stored in a camera, the scene file in the camera is overwritten. If it is stored on a PC, it is stored as a file.

## **| Storing a scene file**

### **To overwrite a scene file in a camera**

Click the [Save to camera] button.

**To store as a file**

Click the [Save] or [Save As] button.

Enter the filename of 8-digit number.

## **To cancel editing**

Click the [Close] button to close the screen.

## **Storing a scene file in CSV format**

1. Select [Export] from the File menu.  
The dialog box opens.
2. Enter the filename, and click the [OK] button.  
The information will be stored in CSV format.

### Note

A file stored in CSV format cannot be returned to scene-file format.

## Managing, Checking, and Editing a Scene File on a PC

---

1. Click the [Open File] button.  
Scene files stored on a PC are read.
2. For overwriting a file, click the [Save] button.  
For storing it as an another file, click the [Save As] button and enter the filename of 8-digit number.

### Transferring to a camera

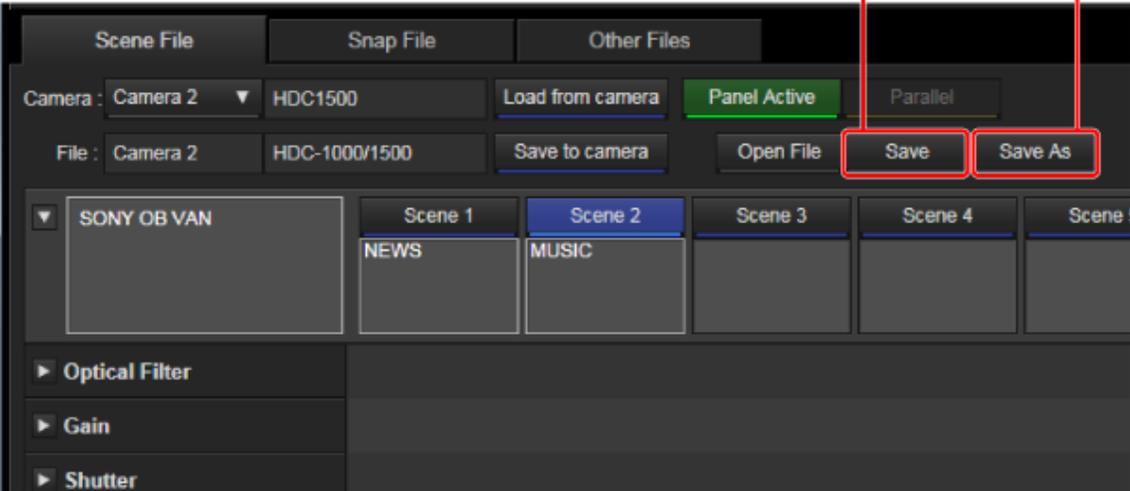
1. Click the [Save to camera] button.  
The file that has been read will be transferred to the camera.

### Adding comment

Comments of up to 31 alphanumeric characters can be added to all scene files or each scene file.

1. Enter characters in the comment box.  
The comment box is enclosed in a white frame. The comment is not stored yet.
2. Click the [Save] or [Save As] button.  
The comment is stored, and the white frame disappears.

[Save] button      [Save As] button



**Note**

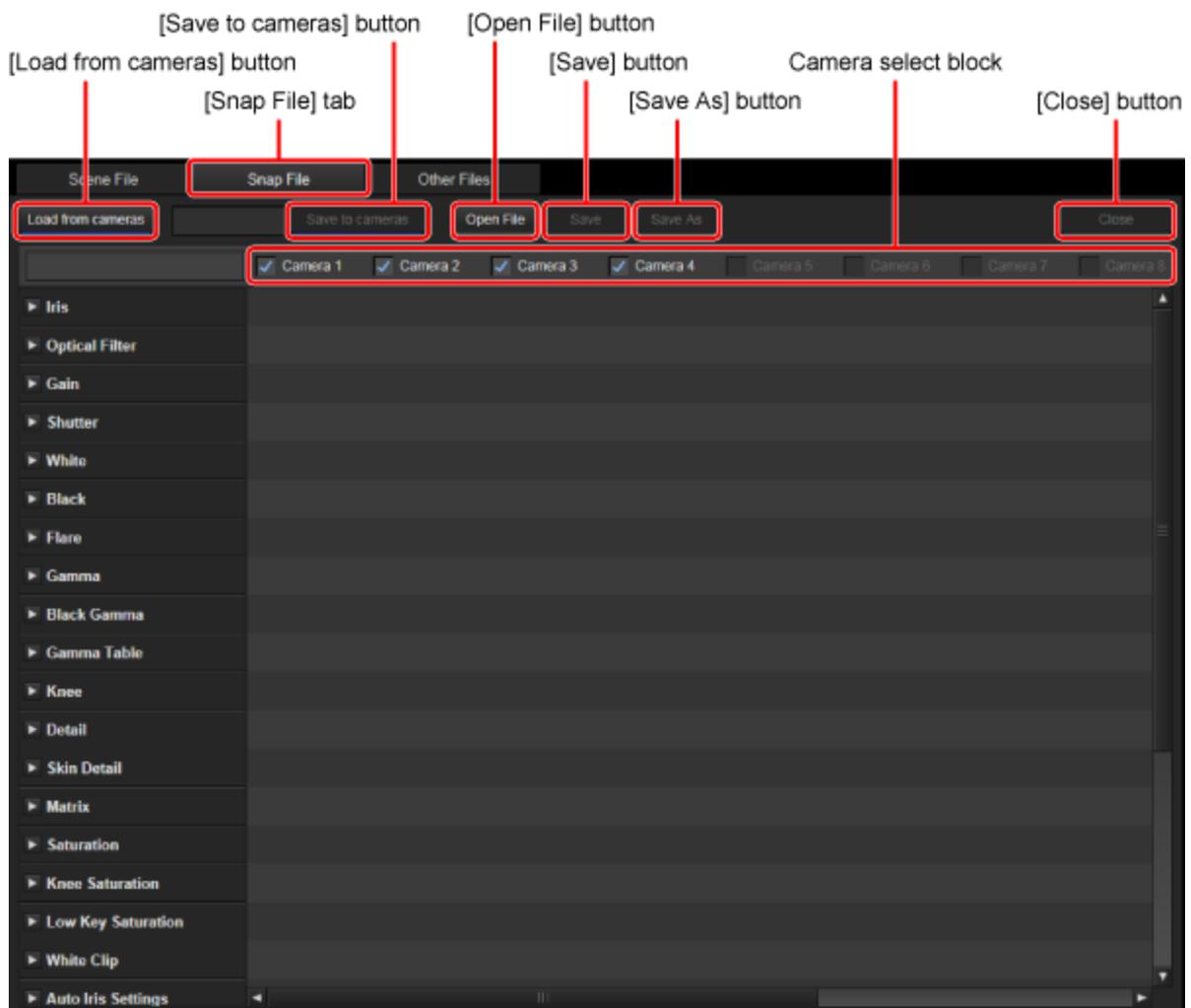
This comment can be stored as a file on a PC but cannot be stored in a camera.

[Back to Top](#)



# Snap File Menu

Clicking the [Snap File] tab opens the Snap File menu. Snap file is a function to create a file for storing the current status of all connected cameras on a PC. Cameras and items to be stored in the file can be set by the user. Statuses of multiple cameras can be stored on a PC as one file.



## Notes

- As all parameters for the specified cameras are transferred, longer time is required for reading and reloading a snap file than when reading scene files.
- A file is created based on the camera number. So if a camera is exchanged with another one after creating a file, camera status may not be reflected correctly.

## **Selecting a camera**

Check the check box on the left of the camera number. The file information is reflected on the checked cameras. If unchecked, the file information will not be reflected on the camera.

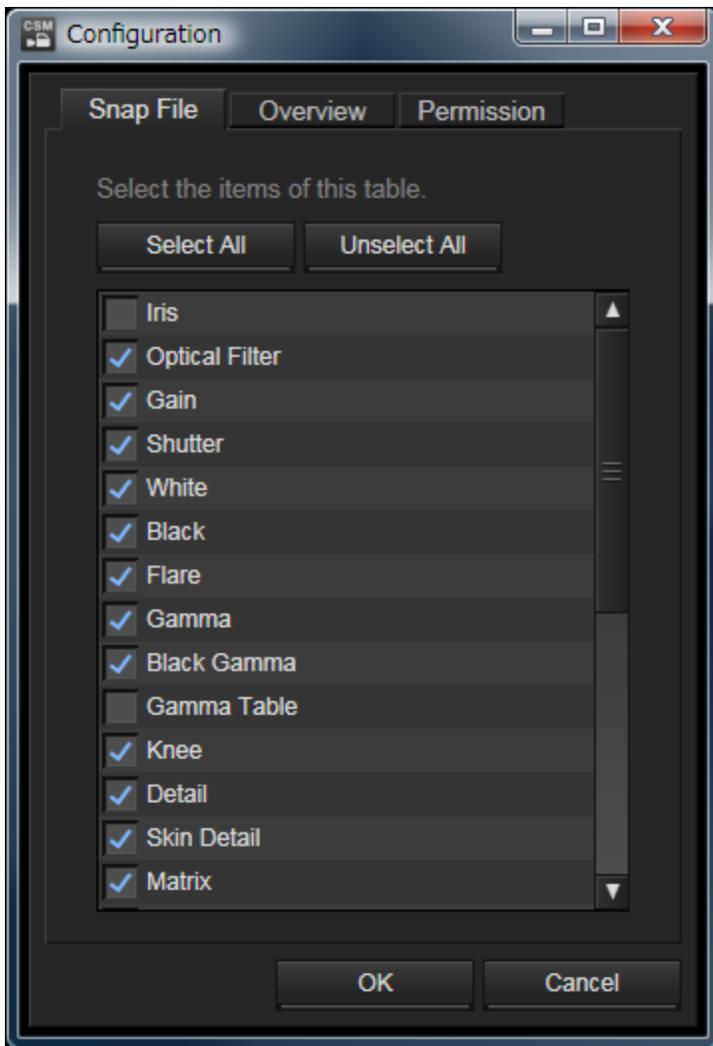
## **Creating a snap file**

1. Click the [Load from cameras] button.  
Parameters of cameras are read to the PC.
2. Click the [Save] or [Save As] button.  
The read parameters are stored on the PC.

## **Reloading the snap file on a camera**

1. Click the [Open File] button.  
The file on a PC opens.
2. Click the [Save to cameras] button.  
The file is reloaded on the camera.

## **Selecting parameters reflecting to a snap file**



1. Select [Configuration] from the Tool menu.  
The Configuration screen opens.
2. Click the [Snap File] tab.  
The dialog box for selecting items opens.
3. Check the check boxes of the items reflected to a snap file.  
Only the checked items will be reflected in a snap file.
4. Click the [OK] button.

## **Editing a snap file**

Contents of a snap file can be copied for each item block. For copying, there are two methods.

Method 1:

Drag and drop the part to be copied to another file.

Method 2:

1. Click a part to be copied.
2. Click the Edit menu on the menu bar then click [Copy].
3. Click the part where the contents are to be copied.
4. Click the Edit menu on the menu bar then click [Paste].  
The part to be copied is copied to the snap file selected in Step 3.  
The copied part is enclosed in a white frame.

## **To cancel copying**

Copy can be cancelled only one time. Click the Edit menu on the menu bar then click [Undo].

## **To store the edited contents**

After editing a file on a PC with the procedures above, store it in a camera or on a PC. If it is stored in a camera, the snap file in the camera is overwritten. If it is stored on a PC, it is stored as a file.

## **Storing a snap file in CSV format**

1. Select [Export] from the File menu.  
The dialog box opens.
2. Enter the filename, and click the [OK] button.  
The information will be stored in CSV format.

**Note**

A file stored in CSV format cannot be returned to snap-file format.

[Back to Top](#)



# Other Files Menu

Clicking the [Other Files] tab opens the Other Files menu. This menu manages lens files, OHB files, and reference files.

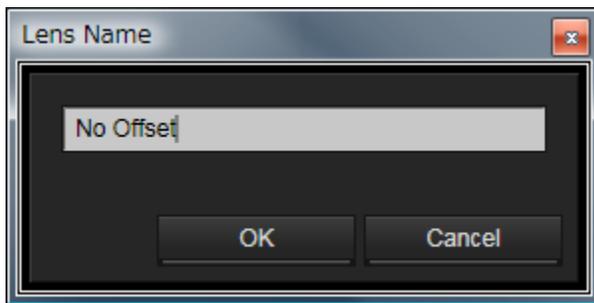


- Camera select block  
Selects a camera number.
- [Panel Active] button, [Parallel] button  
Makes panel active and parallel functions enabled or disabled.  
[Panel Active]: Panel active is enabled or disabled.  
[Parallel]: If the button is clicked with the parallel

function enabled, the function is disabled. If the button is clicked with the parallel function disabled and another panel is in panel active status, the parallel function is enabled.

## Lens File

- Lens select block  
For selecting a lens to be used.
- [Change Name] button  
For setting the lens name in up to 16 alphanumeric.
  1. Click the [Change Name] button.  
The Lens Name dialog box opens.



2. Enter the lens name in the input box.
  3. Click the [OK] button.
- [Store] button  
For storing the items set for the lens file in a camera.

**Note**

If a lens that supports this function is mounted on a camera with a serial interface, the lens file is automatically read.

## **OHB File**

- [Store] button

For storing the items set for the OHB file on a camera.

## **Reference File**

- [Load from Camera] button  
A reference file stored in a camera will be stored on a PC.  
If clicked, the dialog box opens.
- [Save to Camera] button  
A reference file stored on a PC is transferred to a camera.  
If clicked, the dialog box for selecting a file opens.
- [Store] button  
For storing the items set in the reference file in a camera.

## **User Gamma File**

- [Transfer] button

A user gamma file is transferred to a camera.

## **Preset Matrix File**

- [Load from Camera] button  
A preset matrix file stored in a camera will be stored on a PC.  
If clicked, the dialog box opens.
- [Save to Camera] button  
A preset matrix file stored on a PC is transferred to a camera.  
If clicked, the dialog box for selecting a file opens.
- [Store] button  
The settings of matrix will be stored on Preset Matrix File of a camera.  
The stored file number can be specified by the number buttons.

[Back to Top](#)

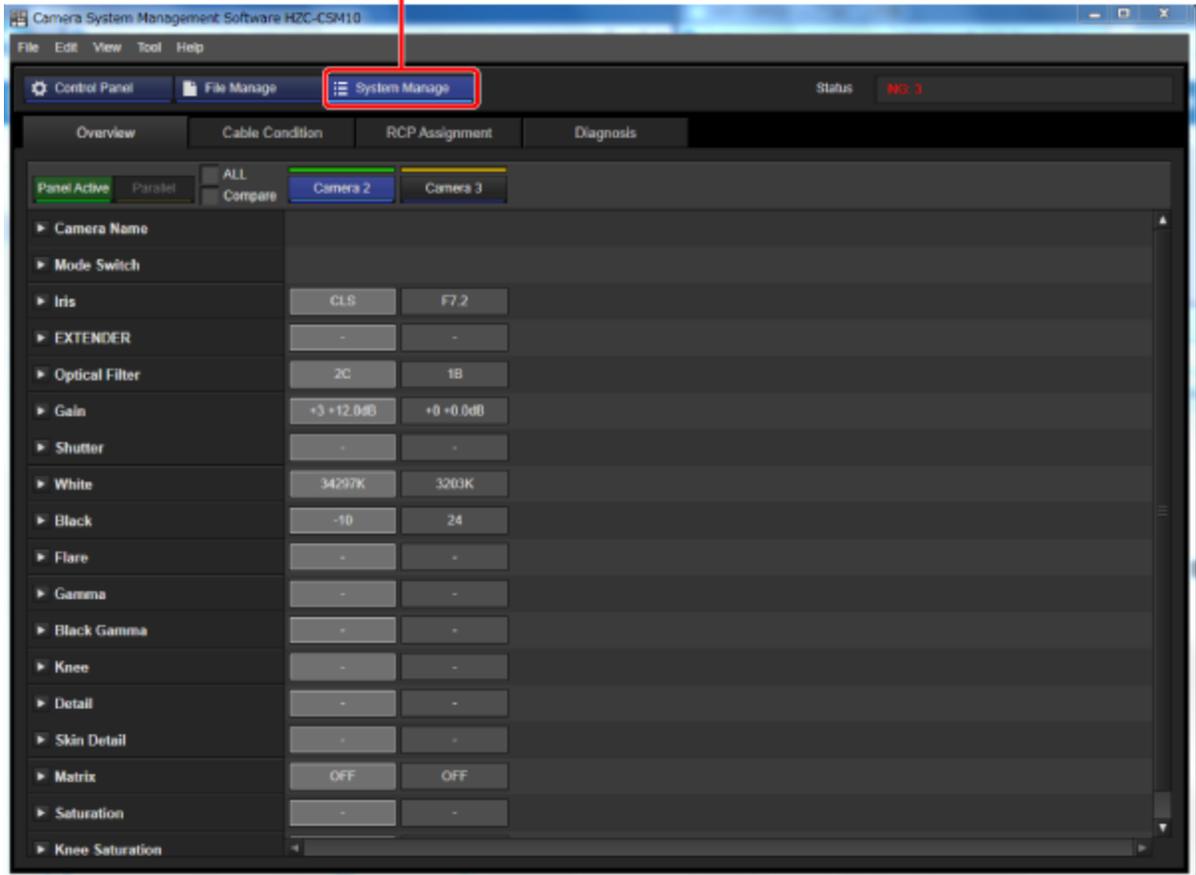
## System Manage Screen (System Management Mode)

This section describes the System Manage Screen (System Management Mode).

- [Overview Menu](#)
- [Cable Condition Menu](#)
- [RCP Assignment Menu](#)
- [Diagnosis Menu](#)

Click the [System Manage] button at the upper left in the window. The System Manage screen will open. On the System Manage screen, parameters for all connected cameras can be checked and controlled.

[System Manage] button

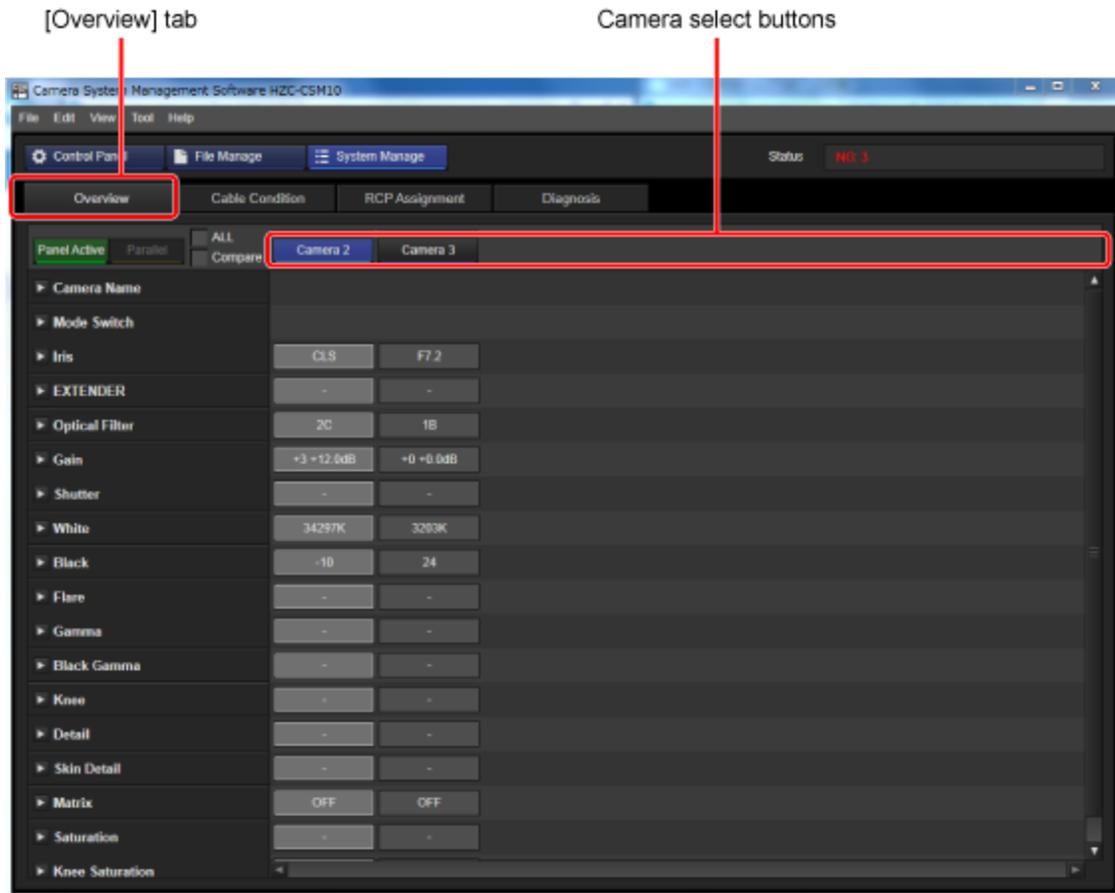


[Back to Top](#)



# Overview Menu

Clicking the [Overview] tab opens the Overview menu. On this menu, the statuses of the connected cameras can be checked and controlled.



The menu enables you to browse parameters for each camera. When the function panel is closed, the representative value of that function is displayed, and when it is open, the details can be checked. For the settings, such as Flare off or Detail on, that are not changed generally, "-" is displayed.

## Comparing the settings of cameras

Click the camera select button to select a camera. The settings will be compared based on the setting values for the selected camera. If the setting values are the same, they are displayed in white, and if they are different, they are displayed in yellow.

## **Operating the settings of cameras**

If you double-click the camera select button to enable panel active or right-click the button to open the context menu and select [Active] or [Parallel], you can operate the camera.

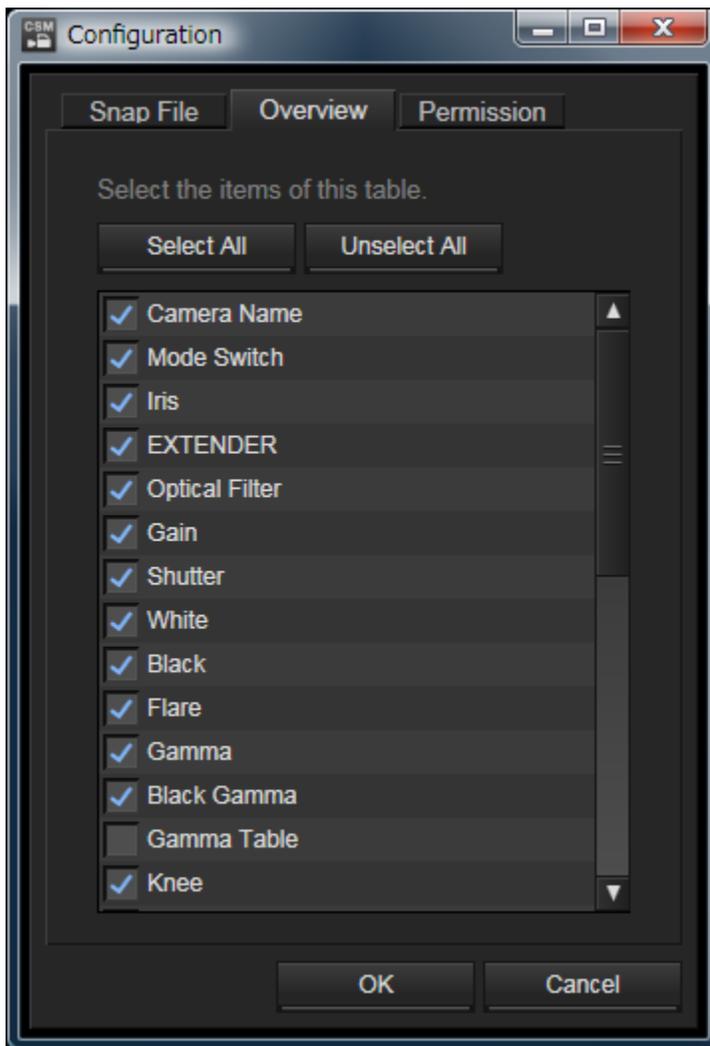
If the [ALL] check box on this menu is checked, all cameras are linked.

## **Selecting items to be displayed on the screen**

Items to be displayed on the Overview menu screen can be selected.

1. Select [Configuration] from the Tool menu.  
The Configuration screen opens.
2. Select the [Overview] tab.
3. Check the check boxes of the items to be displayed.

4. Click the [OK] button.



## Storing the Overview menu information in CSV format

1. Select [Export] from the File menu.  
The dialog box opens.
2. Enter the filename, and click the [OK] button.  
Items selected in "Selecting items to be displayed on the screen" are stored in CSV format.

**Note**

Avoid using more than one PC running in Overview mode on the same camera system network.

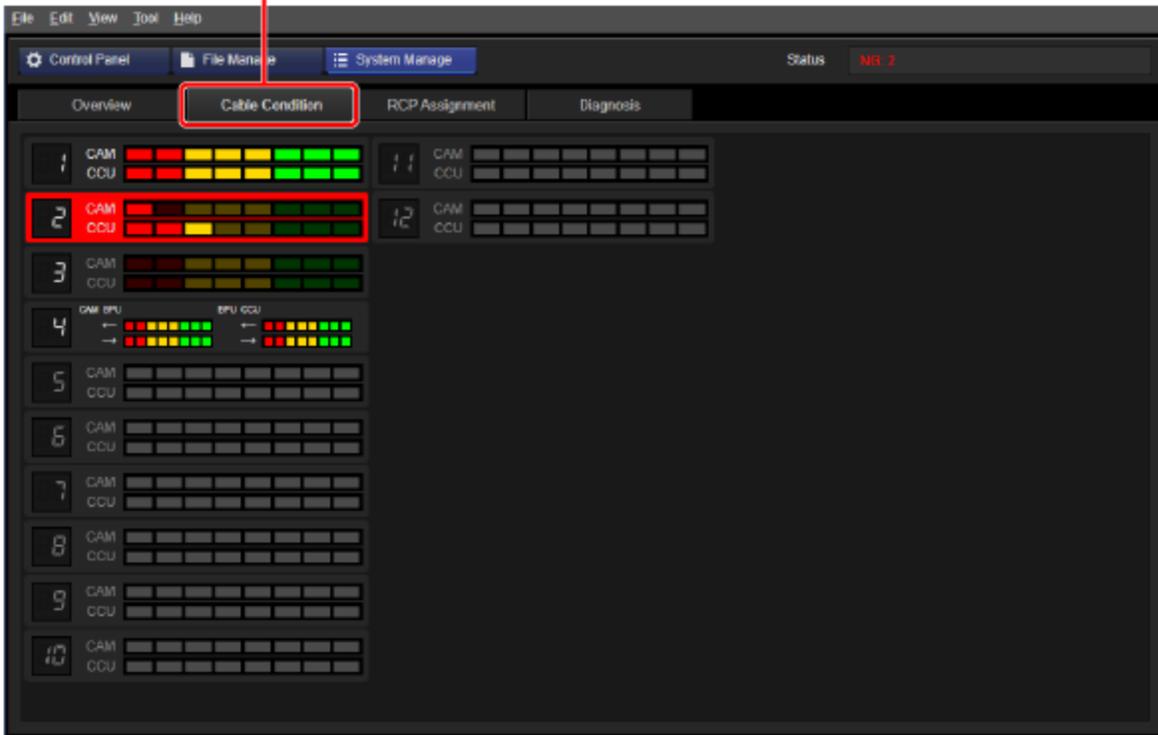
[Back to Top](#)



# Cable Condition Menu

Clicking the [Cable Condition] tab opens the Cable Condition menu. On this menu, optical cable status of the connected camera can be checked.

[Cable Condition] tab



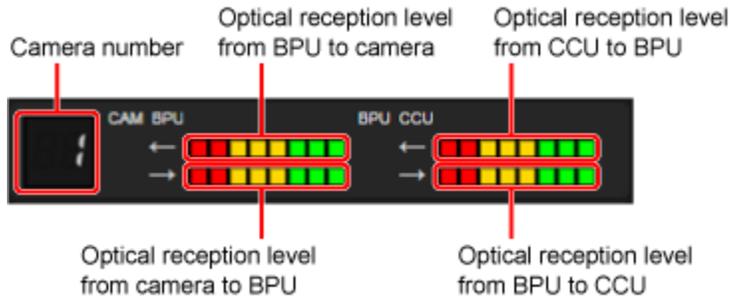
# CCU System

Camera number    Optical reception level for a camera



Optical reception level for a CCU

## BPU System

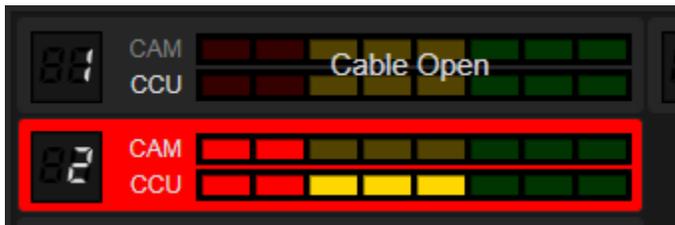


If a cable is not connected: "Cable Open" appears.

If a cable is short-circuited: "Cable Short" appears.

If the connection is in care state, the background will be yellow.

If the connection is in warning state, the background will be red.

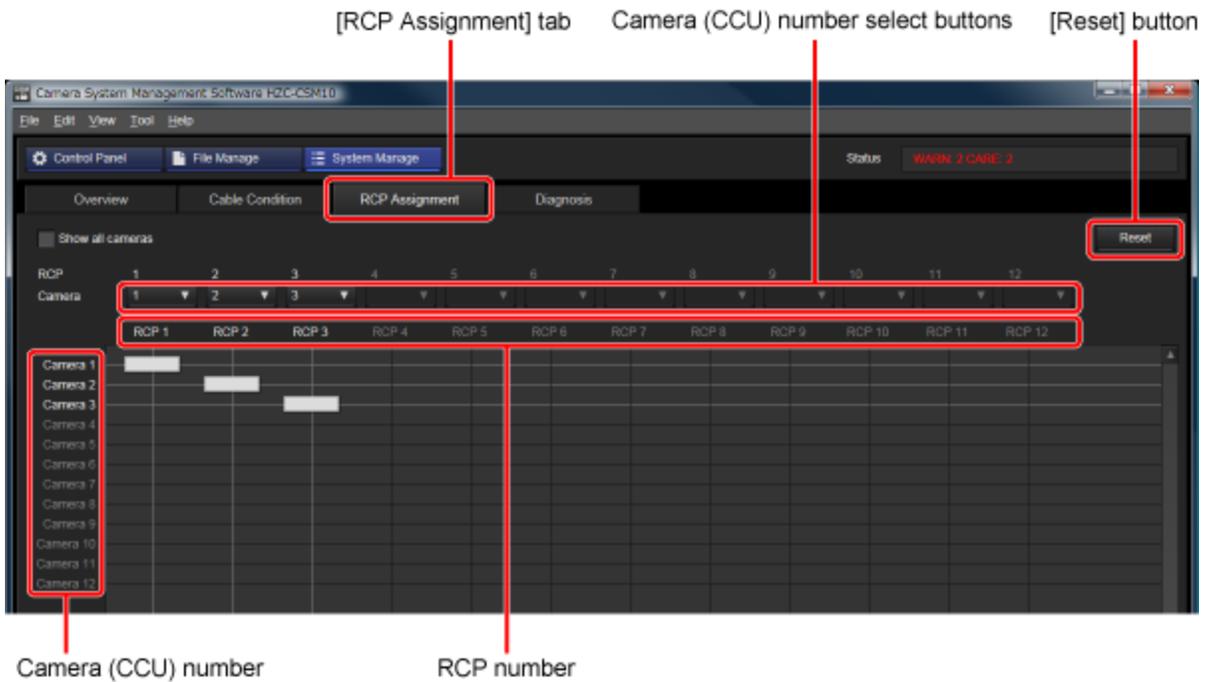


[Back to Top](#)



# RCP Assignment Menu

Clicking the [RCP Assignment] tab opens the RCP Assignment menu. On this menu, RCP assignment can be changed.



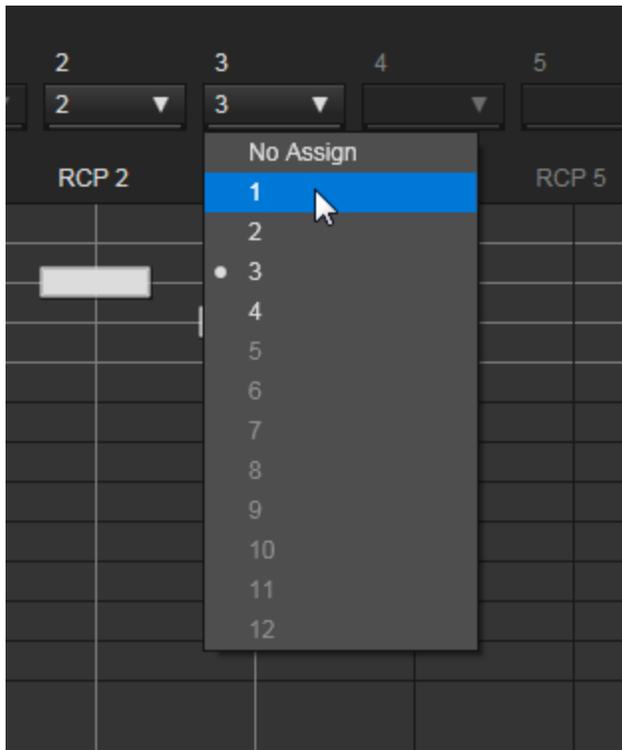
## Assigning an RCP

There are two methods for assigning an RCP.

Method 1:

1. Click the camera (CCU) number select button.

2. Click the number to be selected on the drop-down list.



Method 2:

1. Click the cross point of the camera (CCU) and RCP to be assigned.

## **Resetting the assignment**

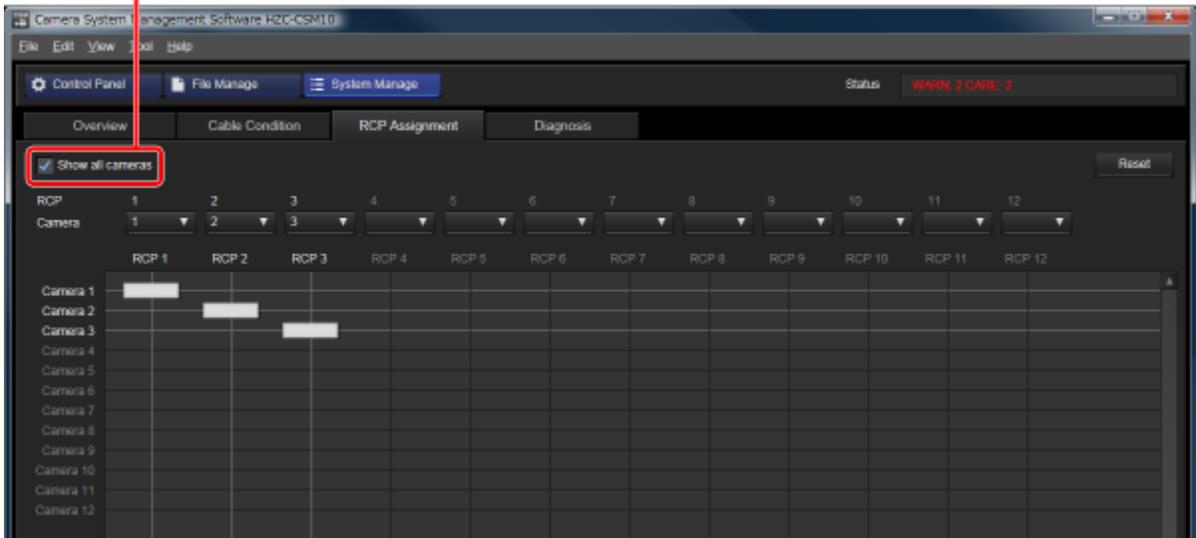
1. Click the [Reset] button.  
The default settings are retrieved.

## **Setting all cameras assignable**

Normally only the connected RCPs and cameras (CCUs) can be assigned, but it is possible to assign RCPs to devices not connected or not booted. Check the [Show all cameras]

check box to enable the ALL function. If the ALL function is disabled, RCPs that cannot be set are displayed dimmed.

[Show all cameras] check box

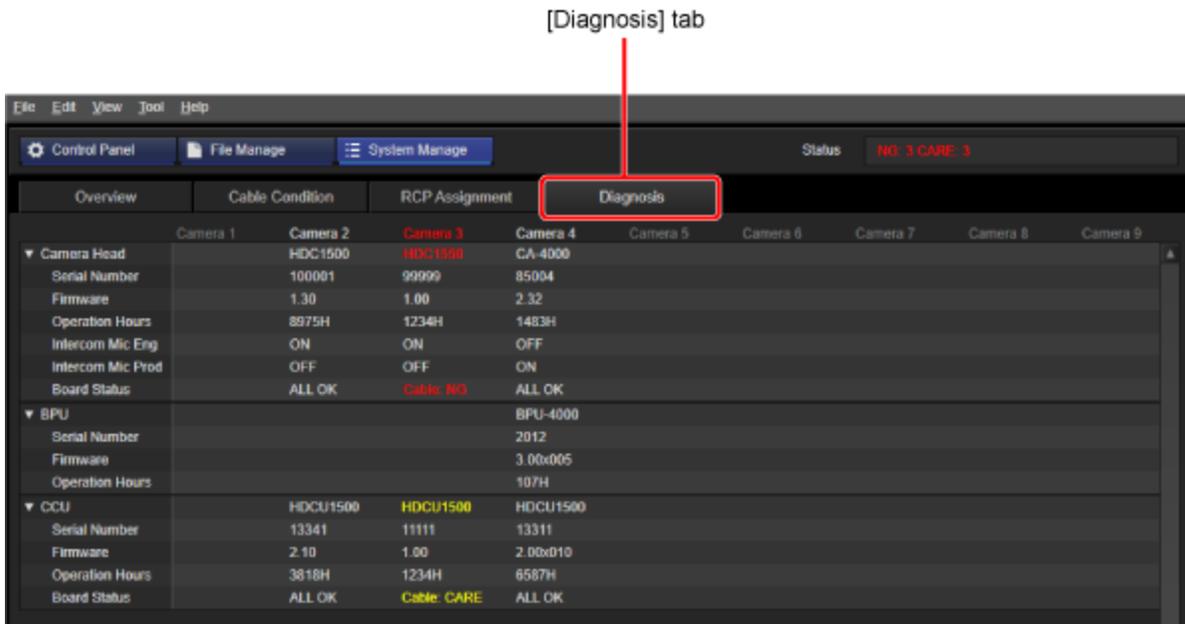


[Back to Top](#)



# Diagnosis Menu

Clicking the [Diagnosis] tab opens the Diagnosis menu. On this menu, service information for cameras and CCUs can be checked.



The Board Status of the BPU is displayed as included in the Board Status of the Camera Head.

If diagnosis is in warning state, it is displayed in red, and if in care state, it is displayed in yellow.

## Storing diagnosis information in CSV format

1. Select [Export] from the File menu.  
The dialog box opens.
2. Enter the filename, and click the [OK] button.  
The information will be stored in CSV format.

[Back to Top](#)

# Appendix

This section describes the followings.

- [Notice to Users](#)
- [Trademarks](#)

[Back to Top](#)



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[Back to Top](#)

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[Back to Top](#)