



Technical Memo

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Revision of Information:
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		Revised :	
RANK	3	Issued :	July 12, 2024

Subject: Software Release [V1.70]

Revise Point(s)

Issue No.
HDCM24-023

Target Models

Model Name / Model Family Name	Model Name / Model Family Name	Model Name / Model Family Name	Model Name / Model Family Name
MSU-3000	MSU-3500		

[Description]

The updated version of the software (V1.61 => V1.70) for MSU-3000/3500 is released.
Upgrade it as necessary.

[Applicable Model]

Model / Destination	Serial Number	Number of Unit
MSU-3000 SYM		
MSU-3500 SYM		

[Change Point]

< New Features >

1. Calibration of light intensity changes for each lens type in DoF Control (DoF Iris Calibration)
2. Screen Saver function
3. CCU PinP RET input setting

< Correction >

1. Fixed an issue where pressing buttons in the CNU Character menu would sometimes not respond.
2. Corrected an issue where RCP assignment settings of CNU were not saved on Menu Exit.

< Details of New Features >

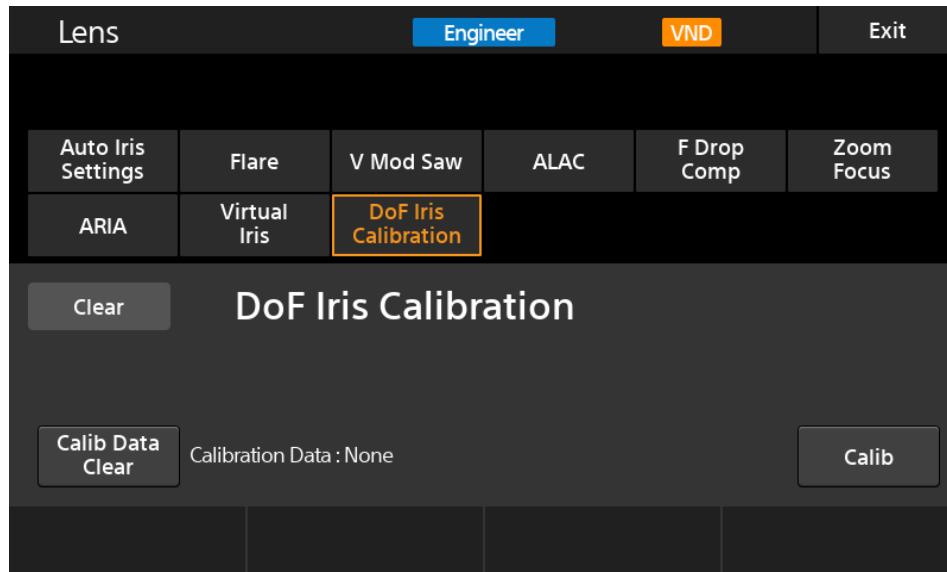
1. Calibration of light intensity changes for each lens type in DoF Control (DoF Iris Calibration)

Added the DoF Iris Calibration menu to “Maintenance->Lens” and “File->Lens->Adjusting”.

In this menu, it automatically measures the calibration values for DoF Control and saving them to files for each lens type.

Pressing the “Calib” button will start a menu progression like AWB. The process of "Level Measurement" takes several tens of seconds. If the automatic measurement is successful, the calibration value will be ready to be saved to a file. Please store to Lens file. The saved calibration values are used for DoF Control using that type of lens. Unwanted brightness changes that occur during operation are reduced.

The "Calib Data Clear" button provides the function to erase the calibration values.



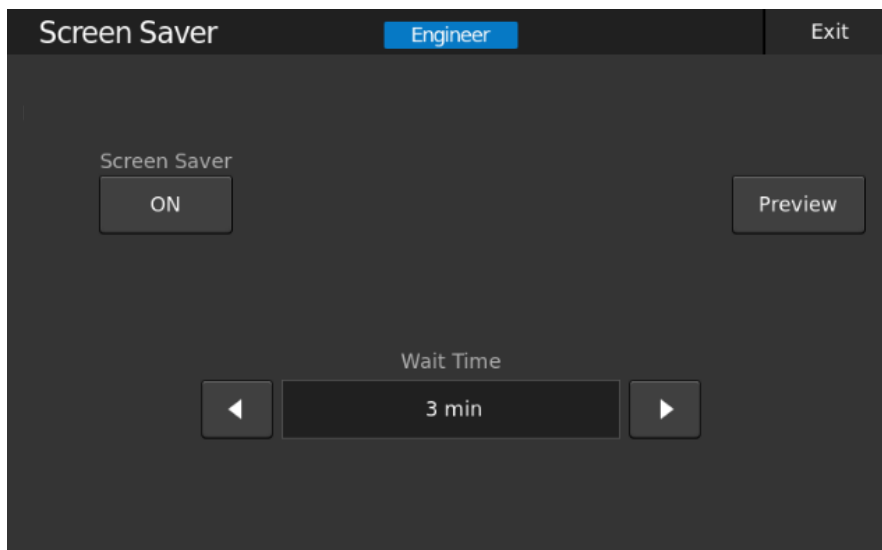
2. Screen Saver function

To protect the LCD, added a function to switch to a black screen after a certain period of inactivity. To deal with the problem of LCD burn-in and brightness reduction with RCP, we have also added functionality to MSU.

Added the “Config->MSU->Mode->Screen Saver” menu.

By turning on the Screen Saver, the Screen Saver would start if no operations related to the LCD display are performed for a certain period. While the Screen Saver is running, the screen will remain black, and nothing will be drawn on it. The Screen Saver can be canceled by touching the LCD.

Set the idle time for entering the Screen Saver with “Wait Time”. Pressing the "Preview" button will immediately switch to the Screen Saver.



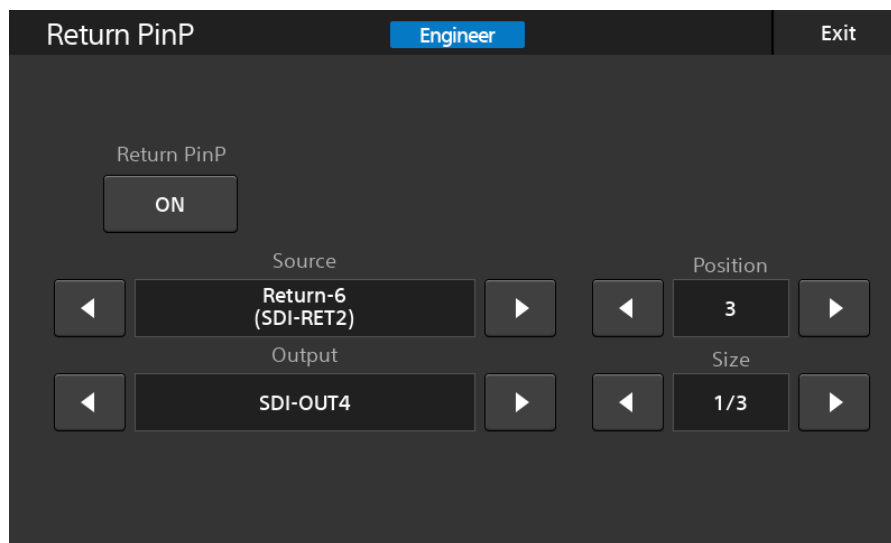
*Attention

The MSU-1X00 series Screen Saver uses line drawing animation, but the MSU-3X00 series has different specifications and displays a black screen.

3. CCU PinP RET input setting

Added the “Config->CCU->Return PinP” menu. In this menu, it is enabled to set the CCU Return PinP function.

- RETURN PinP: Set the On/Off of Picture in Picture function
- OUTPUT: Set the output for displaying Picture In Picture from SDI-OUT3-4 and IP OUT1-2
- SOURCE: Set the video signal to be displayed on Picture In Picture from RETURN SELECT 1-8 and HD PROMPTER
- POSITION: Set the location where Picture In Picture is displayed (1-4)
- SIZE: Set the Picture In Picture size to 1/4, 1/3, or 1/2.5



[About Firmware Update]

Since V1.50, firmware update by customer is possible.

For the procedure for updating the firmware in the conventional Service mode, refer to the section of "Updating the Firmware" in the SERVICE MANUAL.

[Preparation]

< USB flash drive >

Version upgrades are performed using a USB flash drive.

< Obtain the Upgrade Software Files >

Upgrade File: msu3x00_v1.70.pkg

* Available on the website "Software Download". Place the file in the top directory of a USB flash drive.

[Note]

Do not place multiple upgrade files in the top directory. If multiple files are placed, it will not be possible to update the version because it cannot be determined which version should be updated.

[Update Procedure]

1. Set to Engineer Mode.
Set "Config -> MSU -> Security -> Engineer Mode" to ON.
2. Perform firmware update.
Press "Config -> MSU -> Firmware Update -> Update" to open the confirmation screen.
3. Press "Yes" on the confirmation screen to start the update.
The progress bar will be displayed during the update.
4. After the update is complete, the version information screen will be displayed. Press "Close" to exit.

[Check the version after the upgrade]

If the firmware update is completed successfully, the updated version will be displayed on the LCD screen.
Make sure the version of App is V1.70.

* It is also possible to check with the procedure of "Config > MSU > Information > Version".

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[Software History]
MSU-3000/3500

Tech Memo Number	App/OS/Updater	SY
Release	V1.11	V1.010
HDCM21-024R	V1.21	V1.010
HDCM21-054	V1.30	V1.010
HDCM22-028	V1.40	V1.010
HDCM23-022	V1.50	V1.010
HDCM23-043	V1.61	V1.010
HDCM24-023	V1.70	V1.010