CSS LBUS Controller
SUP 3.2

Table of Contents

A. New features & overview of changes introduced with SUP 3.2

The CSS LBUS Controller SUP 3.2 facilitates enhanced performance and increased communication speed for CSS LBUS based controllers.

NOTICE

We highly recommend updating:

DEH-1   Digital Encoder Head 1
DEH-2   Digital Encoder Head 2
DEP-1   Digital Encoder Pedals 1
DRW-1   Digital Remote Wheels 1
EJS-1   External Joystick 1
EJW-1   External Jog Wheels 1
MGT-1   Master Grip TRINITY one joystick
MGT-2   Master Grip TRINITY two joysticks

NOTICE

Furthermore, we strongly recommend updating:

TRINITY 2
TRINITY 2 plus Pan Axis Module
360 EVO Stabilized Remote Head
RCP-2 EVO
RCP-3

with the latest **CSS EVO 3.2** Software Update Package.

B. Update Instructions

In general, there are two methods for updating the CSS LBUS controller.

1.
One way is through the RCP-2 or RCP-3 after they have been updated with the latest **CSS EVO 3.2 SUP**.

2.
An alternative is to update the CSS controllers using Hi-5 or WCU-4.

C. Updating through the RCP-2 and RCP-3

After the RCP-2 or RCP-3 remote controls have been updated with the latest CSS EVO 3.2 SUP, all CSS LBUS controllers are automatically updated after they have been connected to the remote control.

An info screen for the necessary update is displayed on the RCP-2 or RCP-3 remote controls.

Just follow the steps that are shown.

How to get a Software Update Package
You can find the Software Update Package (SUP) on our website:
The CSS EVO 3.2 software update is available for Mac and PCs.

TRINITY 2 / RCP-2
https://www.arri.com/en/technical-service/firmware/software-updates-css

360 EVO / RECP-2 EVO
https://www.arri.com/en/technical-service/firmware/software-updates-css

Release Note
CSS LBUS Controller SUP 3.2

All data subject to change without further notice.   Page 4 of 6

D. Updating through Hi-5

How to get a Software Update Package
You can find the Software Update Package (SUP) on our website:

CSS LBUS Controller SUP 3.2
https://www.arri.com/en/technical-service/firmware/software-updates-css

Update Procedure

The CSS LBUS Controllers can be updated as LBUS device via Hi-5 (USB or ECS Sync App), WCU-4, UMC-4, ALEXA Mini, ALEXA Mini LF and ALEXA 35 cameras. The following section provides details about updating the Master Grips or OCU-1 via Hi-5 and WCU-4. Please refer to the owner's manual of the other devices for more details.

Update with Hi-5 via USB

The software can be updated using a USB-A or USB-C drive.
The USB-A slot is located below the display on the bottom of the Hi-5, covered by a plastic cap. Press the release pin to open the cover.
The USB-C slot is located above the display on the top side of the Hi-5, covered by a rubber cap. Lift and turn the rubber cap gently to access the USB-C slot.

Precautions

Make sure the power supply of the Hi-5 is stable, e.g. by using a fully charged battery. Please note that power over USB is not recommended.
Preparing the USB Stick
Copy the Software Update Package onto an USB memory stick in folder ARRI/ECS/

Performing the Update

(1)   Connect the CSS LBUS Controllers to the Hi-5 via LBUS.

(2)   Connect the CSS LBUS Controllers to a power source.

(3)   Turn the Hi-5 on.

(4)   Insert the USB stick in the corresponding USB slot of the Hi-5.

(5)   Go to MENU > System > Update > LBUS Device Update.

(6)   Select the Connect the CSS LBUS Controllers as LBUS device.

(7)   Choose the desired Software Update Package and then press select to start the update.

CAUTION
The update process takes several seconds.
Don't remove the USB stick, and do not turn off the Hi-5 during the update!

C. Update with WCU-4

Precautions

During the update, supply the CSS LBUS Controllers with >12V Voltage, e.g. by using an LBUS to D-Tap cable (e.g. K2.0006758 Cable LBUS to D-Tap) connected to a battery with D-Tap interface.

Preparing the SD Card

Have a FAT16 or FAT32 formatted SD/SDHC card up to 32GB for updating. Copy the Master Grips Software Update Package into the root folder of the SD/SDHC card.

Performing the Update

(1)   Connect the CSS LBUS Controller with the WCU-4 via LCS to LBUS cable (K2.0007318 or K2.0013044).

(2)   Connect the CSS LBUS Controller to 12V power source (e.g. with K2.0006758 Cable LBUS to D-Tap).

(3)   Turn the WCU-4 on.

(4)   Insert the SD card into the SD card slot of the WCU-4.

(5)   Go to MENU > FIRMWARE > LBUS Update.

(6)   Select the Master Grip as LBUS device.

(7)   Choose the desired Software Update Package and then press the two UPDATE soft buttons simultaneously to start the update.

(8)   A progress bar on the Master Grip indicated the update process.

CAUTION
The update process takes several seconds.
Don't remove the USB stick, and do not turn off the WCU-4 during the update!