Master Grips and OCU-1 SUP 2.0.2

Software Update Package SUP_MGR1_OCU1-2.0.2_329.cmf

RELEASE NOTES

Date: October 5th, 2022

Table of Contents

Master Grips and OCU-1 SUP 2.0.2   Page 2 of 6

Release Notes   All data subject to change without further notice.

A. Introduction

We hereby announce the release of Software Update Package (SUP) 2.0.2 for the Master Grips and the Operator Control Unit OCU-1. This is a maintenance release and ensures compatibility with the Radio Interface Adapter RIA-1 and other ARRI products.

We highly recommend updating the Master Grips and the Operator Control Unit OCU-1 to this Software Update Package. This update is mandatory if Master Grips or the OCU-1 are used with the RIA-1.

New features & overview of changes introduced with SUP 2.0.2

This SUP 2.1.2 ensures compatibility of the Master Grips and OCU-1 with the ARRI Radio Interface Adapter RIA-1.

Please be aware, that this update is mandatory if a Master Grip or the OCU-1 is used in combination with RIA-1.

For more information about RIA-1, please visit: https://www.arri.com/ria-1

Please take your time to go through this document before you start using the Master Grips or OCU-1.
For more information, please visit:

Master Grips:		https://www.arri.com/en/camera-systems/electronic-control-system/master-grips
OCU-1:			https://www.arri.com/en/camera-systems/electronic-control-system/ocu-1

B. Update Instructions

How to get a Software Update Package

You can find the Software Update Package (SUP) in the Master Grips or OCU-1 download section on our website:

Master Grips:

https://www.arri.com/en/technical-service/firmware/software-updates-ecs/software-update-for-master-grips

OCU-1:

https://www.arri.com/en/technical-service/firmware/software-updates-ecs/software-update-for-ocu-1

Master Grips and OCU-1 Update Procedure

The Master Grips or OCU-1 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 Master Grips or OCU-1 to the Hi-5 via LBUS.

(2) Connect the Master Grips or OCU-1 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 Master Grips or OCU-1 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!

Update with Hi-5 via ECS Sync App

The ECS Sync App connects to Hi-5 via Bluetooth. To add your Hi-5 to the list of Bluetooth devices on your iOS device, do the following:

(1) Connect the Master Grips or OCU-1 to the Hi-5 via LBUS.

(2) Connect Master Grips or OCU-1 to a power source.

(3) Ensure that Bluetooth is enabled on the Hi-5 via MENU > System > Bluetooth.

(4) Activate Bluetooth on your iOS device and add the Hi-5 to your device list (Hi-5 is shown as hi-5-xxxxx, with xxxxx being the serial number).

(5) Open the ECS Sync App. The app is now connected to your Hi-5 hand unit.

(6) Go to ARRI DEVICE > Master Grips or OCU-1 xxxxx > Update to the latest SUP

(7) Select Download and proceed the software update

Caution: Do not leave the app during the update!

Update with WCU-4

Precautions

During the update, supply Master Grips 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 WCU-4 and Master Grips via LCS to LBUS cable (K2.0007318 or K2.0013044).

(2) Connect Master Grips 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: Do not remove the SD card during the update!

Master Grips and OCU-1 SUP 2.0.2   Page 4 of 6

Release Notes   All data subject to change without further notice.

Update with ALEXA Mini, ALEXA Mini LF and ALEXA 35

Precautions

Have the ALEXA running with a stable power source during the update.

Preparing the USB Stick

Copy the Master Grips Software Update Package onto an USB memory stick in folder ARRI/ECS/

Performing the Update

(1) Connect the cameras LBUS connector (LBUS connector on PL lens mount for ALEXA Mini and ALEXA Mini LF) and one Master Grip via LBUS cable.

(2) Connect camera to a stable power source (e.g. AC power supply and on-board battery).

(3) Connect the USB stick to the camera.

(4) In the camera menu, go to MENU > System > Update > LBUS.

(5) Select the Master Grip or OCU-1 as LBUS device and press the jog wheel. A confirmation screen is displayed. Press CONFIRM to start the update.

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

(7) A progress bar on the Master Grip or OCU-1 indicated the update process.

Caution: Do not remove the USB stick during the update!

The update process takes several seconds. The device will re-start, and the update process is completed.

C. New Features

Radio Interface Adapter RIA-1 compatibility

This SUP ensures compatibility of the Master Grips and OCU-1 with the Radio Interface Adapter RIA-1.

The Master Grips or OCU-1 can be used as on camera when connected via LBUS to a RIA-1 in host mode.

In addition, Master Grips and OCU-1 can now be used wirelessly, when connected via LBUS and Power to a RIA-1 in client mode.

For more information about RIA-1, please visit: https://www.arri.com/ria-1

Important RIA-1 client setup instruction

If the Master Grip or OCU-1 is being used as a wireless control unit with a RIA-1 in client mode, it is important to change the default user button assignments:

- The axis toggle function (Master Grips or OCU-1 user buttons F/I or FIZ) should not be used in this setup!
- If using a Master Grip, the default assignment of the red button (B) should be changed from F/I to SET TO F, SET TO I or SET TO Z, depending on the axis it should control (Master Grips manual p.32).
- If using an OCU-1, the default assignment of the middle soft user button should be changed from FIZ to SET TO F, SET TO I or SET TO Z, depending on the axis it should control (OCU-1 manual p.29).

E. Known Issues

This is a list of known issues for SUP 2.0.2:

RIA-1 client mode: Axis blocked for other ECS devices

Master Grips or OCU-1 requests focus and iris for faster hopping between axis by default if the axis toggle functions (F/I or FIZ) are assigned, unfortunately this causes trouble in a client RIA-1 setup, as the axis get blocked for other ECS devices.

Workaround: Make sure axis toggle function, is not assigned to any user button. (see: Important RIA-1 client setup instruction)

cforce mini RF: No motor control possible with cforce mini RF in daisy chain with camera

Motor Control via Master Grips or OCU-1 is not possible, when used in combination with a cforce mini RF which is connected to a camera via CAM.

Workaround: Master Grips or OCU-1 and the desired motor should be in a separate LBUS daisy chain and should not be connected to the cforce mini RF.

Water interferences with the touch function

Due to the mechanical construction, it's possible that some water remains in the corner of the display and interferes with the touchscreen function. Cleaning and storing the Master Grips in a dry, warm, environment solves the issue in most cases.

Motor limits not supported with ALEXA SXT

Motor limits set on a Master Grip are not supported with ALEXA SXT.

EF Iris limits not synchronized with ALEXA Mini or ALEXA 35 Camera

Iris limits for an EF lens set on a Master Grip will not apply to the slider of a WCU-4 or Hi-5 hand unit when connected to an ALEXA Mini, ALEXA Mini LF or ALEXA 35.

Toggling override can cause slow lens motor movement

Switching the override mode on and off sequentially without using the WCU-4 or Hi-5 in between can cause the respective lens motor to start moving slowly (ramp).

Update via LBUS daisy-chain can cause an error

Updating Master Grips though a daisy-chain of LBUS-devices can cause a CRC update error. To prevent this issue, connect the Master Grip directly to the updating device.

Limiting range re-scales input range

When setting a limit, the motor will jump to the new, re-scaled position. When clearing a limit, the motor will jump to the next end stop.

Multiple camera interfaces in parallel

Using multiple control devices such as Master Grips on ALEXA Mini's EXT and LBUS interfaces in parallel may result in not gaining control with one or more of those devices. Connect Master Grips to either EXT or LBUS interface.

Inverted scale movement

The motor position indicator on the Master Grip screen may move to the opposite direction of the rocker/wheel, depending on the motor mounting side. The issue can be solved by inverting the direction of the input device.