UMC-4 SUP 2.0

Software Update Package UMC4_2.00_2393

Date: October 10th, 2017

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A. Introduction

We are proud to announce the release of Software Update Package (SUP) 2.0 for the Universal Motor Controller UMC-4. We highly recommend updating the UMC-4 to this software update package. Please take your time to go through this document before you start using the UMC-4. For more information, please visit www.arri.com/ecs/umc-4

New features & overview of changes introduced with SUP 2.0

- Wireless lens file transfer
- Full playback control
- User setups
- Camera status display for PLAY and ERASE on UMC-4
- Support of Teeth Detection
- Updated LDA
- LBUS support of cmotion cfinder III
- Improvements on motor driving behavior
- Several minor improvements
- Several bug fixes

B. Update Instructions

How to get a Software Update Package

Go to the ARRI website www.arri.com/ecs/umc-4 and download the latest Software Update Package (SUP) from the Downloads section of the UMC-4.

UMC-4 update procedure

Precautions

Make sure the power supply of the UMC-4 is stable.

Preparing the SD Card

Have a FAT16 or FAT32 formatted SD-Card ready. SD and SDHC cards are supported.

Copy the update package file to the SD card.

Performing the update

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

(2) Select *Menu>System>Firmware Update*, and navigate to the update package on the SD card.

(3) Select the package. A list of modules will be shown on the screen.

(4) Press UPDATE. A new warning screen will be displayed. Proceed by simultaneously pressing the two UPDATE buttons. The screen will blackout and the status LED will start blinking red and green. The unit is being updated. This can take up to 30 seconds.

(5) The UMC-4 will reboot after the update is completed. Depending on the update package content, additional modules might need to be updated after reboot; this is done automatically and is clearly indicated on the screen of the device. The second phase of the update procedure may take several minutes.

Caution: Do not switch off power and do not remove the SD card during the update as this may damage the UMC-4!

In case of any update-related issues, please contact the ARRI Service.

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Release Notes   All data subject to change without further notice.

C. New Features and Changes

Wireless lens file transfer

Now, users can wirelessly transmit a lens file from the WCU-4 to the UMC-4.

Full playback control

Full playback control from WCU-4 is now possible with the UMC-4 connected to AMIRA or ALEXA Mini.

User Setups

Selection of camera user setups from WCU-4 is now possible with the UMC-4 connected to AMIRA or ALEXA Mini.

Camera status display for PLAY and ERASE on UMC-4

The UMC-4 screen now shows users a Playback and Erasing indication (only supported on AMIRA/ALEXA Mini).

Support of Teeth detection

ARRI offers interchangeable gears with different teeth counts for lens motors. The teeth count mode can now be set/shown in the UMC-4 GUI. This new function is important for correct lens data.

Updated LDA

Updated Lens Data Archive (LDA) and improvements on the LDA structure. Following lens files were added:

- ARRI Anamorphic Ultra Wide Zoom 19-36mm/T4.2
- ARRI Anamorphic Ultra Wide Zoom 21-40mm/T4.9
- Leica Summicron 18, 21, 25, 29, 35, 50, 75, 100, 135mm
- Leica Summilux 16, 18, 21, 25, 29, 35, 40, 50, 65, 75, 100, 135mm
- Zeiss LDS VP1 16-30mm
- Zeiss VP1 16-30mm
- Zeiss Standard T 2.1 16, 20, 24, 28, 32, 40, 50, 60, 85, 100, 135, 180mm
- Zeiss Compact Prime CP.2 Standard 15, 18, 21, 25 T2.1, 25 T2.9, 28, 35, 50, 85, 100, 135mm
- Zeiss Compact Prime CP.2 Super Speed 35, 50, 85mm
- Zeiss Cinema Zoom, 15-30, 28-80, 70-200mm

LBUS support of cmotion cfinder III

The cmotion cfinder III for distance measurements is now supported by the UMC-4 LCS interface, with distance readouts being displayed on the WCU-4 screen.

Improvements on motor driving behavior

Improvements on the smoothness, speed, acceleration and a more accurate driving behavior were done. Further the handling of the CLM-2 motor control has been optimized to be more precise.

D. Bug Fixes

ND filter value display

Fixed an issue where WCU-4 display would not show ND filter values from ALEXA Mini or AMIRA.

Switching of distance unit not working

Solved an issue where WCU-4 display would not show changed distance unit from metric to imperial (display still in metric).

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Pre-marked focus ring issue

Fixed an issue of an inverted focus scale on the WCU-4 screen in relation to pre-marked focus rings.

E. Known Issues

Inaccuracy while controlling EF lenses

Wireless remote control of EF lenses on AMIRA is support by the UMC-4, but the accuracy of set focus marks is getting lost when turning the focus ring.

Focus distance unit from LDS lens cannot be changed on UMC-4

When using the Universal Motor Controller UMC-4 with an ALEXA EV type camera or an AMIRA camera with LDS mount and LDS lens, the LDS lens data will automatically be used by the UMC-4 and displayed on the WCU-4 handset. However it is not possible to change the focus scale unit (meter/feet) on the UMC-4 motor controller. This setting can be changed on the camera itself.

Lens data recording accuracy

Lens data from an ALEXA EV type camera with LDS mount can be transmitted to the UMC-4 via ALEXA EXT interface. Please note that the LDS values from an ALEXA camera are sent only once every 50ms and have considerable timing jitter. Therefore they are not recorded frame accurately. We therefore recommend generating the lens data within the UMC-4 using the Lens Data Archive.

Missing data communication with AMIRA

Data communication between UMC-4 and AMIRA cameras will miss after power-cycling the UMC-4. Rebooting the camera will solve this issue. We are working on a fix for the next AMIRA SUP.

Pre-marked focus ring values not matching with non-LDS lenses

Pre-marked focus ring values can be set, but ring values aren't accurate if no focus scale is available. We therefore recommend avoiding the usage of a pre-marked focus ring in case of any lens that has no lens table (e.g. Cooke).

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