ARRI Electronic Control System Release Notes

Hi-5 & Hi-5 SX Software Update Package (SUP) 3.2.1
NIA-1 SUP 1.0
RIA-1 Software Update Package (SUP) 2.4.1
ZMU-4 Software Update Package (SUP) 1.4.1
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LCUBE CUB-1 Software Update Package (SUP) 3.1

RELEASE NOTES

November 24th, 2025

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A. Introduction

We are happy to introduce new firmware versions of several ECS products. This system release notes describe the features and changes on a system level, as well as the known issues of the whole ECS ecosystem.

In order to ensure compatibility of components and firmware versions, we highly recommend keeping all devices updated to the most current version.
At the date of the release of this document those are:

Product	Recommended Firmware Version
Hi-5 & Hi-5 SX	**3.2.1**
NIA-1	**1.0**
ZMU-4	**1.4.1**
RIA-1	**2.4.1**
SXU-1	2.1.2
WCU-4	3.3.20
Master Grip	2.0.2
OCU-1	2.0.2
cforce mini RF	**2.4.1**
cforce mini	2.0.0
cforce plus	2.0.0
CUB-1	**3.1**
CUB-2	1.3.1

Recently updated items are in bold text.

All of the latest firmware versions can be downloaded from the ARRI webpage:
https://www.arri.com/en/technical-service/firmware/software-updates-ecs

In addition, our latest Tech Talk about this new firmware is a great way to explore these new features:
https://www.youtube.com/ARRIchannel

Please take your time to go through this document before using your ECS product. For more information about this and previous releases, please visit:
https://www.arri.com/en/technical-service/firmware/software-updates-ecs/

B. New Features

Overview of new features and changes

Hi-5 & Hi-5 SX SUP 3.2.1

- Support for ALEXA 35 Xtreme
    - Sensor Overdrive Indication
    - ARRICORE Indication
- Sensor Mode and Recording Resolution display
- Enhanced Sensitivity Support
- Long-Press User Button Functionality
- New Zoom User Buttons
- Ensō Prime LDA tables added
- Sony BURANO Control License
- Blackmagic URSA Cine Control License
- Bug Fixes

NIA-1 SUP 1.0

- Initial release

RIA-1 SUP 2.4.1

- Support for NIA-1
- Bugfixes and improvements

ZMU-4 SUP 1.4.1

- Support for NIA-1

cforce mini RF SUP 2.4.1

- Support for NIA-1

LCUBE CUB 1 SUP 3.1

- Support for NIA-1

B.1. Hi-5 & Hi-5 SX SUP 3.2.1

This section describes changes from SUP 3.1.5 to SUP 3.2.1 for the Hi-5 and Hi-5 SX.

We are happy to introduce this new firmware version. It advances the ECS ecosystem, and we hope that it will enhance your on-set experience.

Support for ALEXA 35 Xtreme

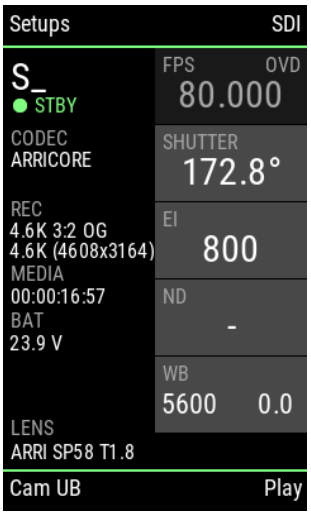
The recent Release of the ALEXA 35 Xtreme saw numerous new features introduced including new Resolutions, Sensor Modes and a new Codec. Hi-5 & Hi-5 SX now fully support all new Features.

Sensor Overdrive Indication

Active Sensor Overdrive is indicated in the FPS section on the Cam screen. If due to the chosen Recoding Resolution / Codex Compact Drive combination changes are not possible the respective Field is greyed out.

ARRICORE Indication

Like before the Cam page shows the active recording codec at a glance. With SUP 3.2 ARRICORE is displayed here when selected.

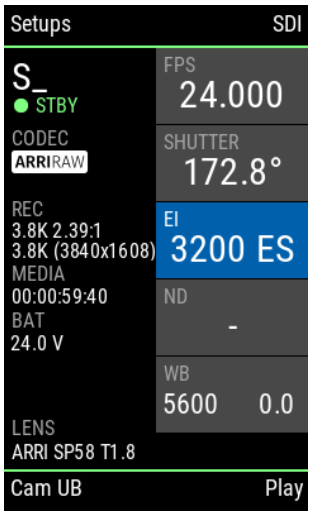


Sensor Mode and Recording Resolution display

Now the camera displays the active Sensor mode (upper line) and Recording Resolution (lower line) in a new segment titled REC. Due to space constraints Open Gate is abbreviated with ‘OG’. This information is transmitted by all ALEXA 35 models running SUP 5.x or higher.

Enhanced Sensitivity Support

Hi-5 now supports displaying and setting Enhanced Sensitivity on all ALEXA 35 models. Please note that the camera must run at least SUP 5.0 to support this feature.



Long-Press User Button Functionality

With this update long press events are supported. This enables the use of camera user buttons like **SDI Zoom (Smart)** and **Calibrate Lens Motors** on the Hi-5.

New Zoom User Buttons

A distinct new category of User Buttons is added to Hi-5. In the new category Camera Zoom there are 11 User Buttons that allow for quick access to different Zoom functions. All Buttons will always be visible, however their functionality depends on the connected camera model.

On the ALEXA Mini and ALEXA Mini LF the *SDI (1) Zoom* Button is not functional. SDI Tracking Zoom is an upcoming feature that is currently not functional on any camera.

Ensō Prime LDA tables added

All remaining Ensō Prime LDAs have been added to Hi-5 therefore completing the entire range of focal lengths from 10.5mm to 250mm.

Sony BURANO Control License

The Hi-5 now offers support for the Sony BURANO in conjunction with the Network Interface Adapter NIA-1. The BURANO must be connected to NIA-1 with a RJ45 network cable. A Hi-5 with the Sony BURANO Control License is then able to change the following settings:

- Start/Stop Recording
- ND Filter
- Frame Rate
- Exposure Index
- Shutter Angle
- White Balance

In addition, Camera Status, Camera ID, Codec, Remaining Recording Time and Battery Status will be displayed.

Blackmagic URSA Cine Control License

The Hi-5 now offers support for the Blackmagic URSA Cine in conjunction with the Network Interface Adapter NIA-1. The Ursa Cine must be connected to NIA-1 with a RJ45 network cable. A Hi-5 with the Blackmagic URSA Cine Control License is then able to change the following settings:

- Start/Stop Recording
- ND Filter
- Frame Rate
- Exposure Index
- Shutter Angle
- White Balance

In addition, Camera Status, Camera ID, Codec, Remaining Recording Time and Battery Status will be displayed.

Bug Fixes

As always this release contains numerous Bugfixes and other improvements.

B.2. NIA-1 SUP 1.0

The NIA-1 SUP 1.0 release is the initial release for this new product.

The Network Interface Adapter NIA-1 bridges LBUS and Ethernet connectivity and enables a wide range of new and exciting workflows. With this being the initial release please refer to the Operating Manual on guidance how to use this product.

B.3. RIA-1 SUP 2.4.1

The RIA-1 SUP 2.4.1 is a compatibility and bugfix update to ensure that it works with the latest ECS features. In addition, it contains new features and improvements that are listed below.

Support for NIA-1

The RIA-1 can now support the Network Interface Adapter NIA-1 and therefore provide camera control to a Hi-5 & Hi-5 SX that is wirelessly connected while a NIA-1 connects a supported camera via LBUS and Ethernet. This works in conjunction with the newly available Licenses for Blackmagic URSA Cine and Sony BURANO.

In other configurations the RIA-1 integrates seamlessly into any LBUS chains that connect to a NIA-1.

Bugfixes and Improvements

As always this release contains numerous bugfixes and small improvements, including a new ZEISS communication protocol in preparation for future product support.

B.4. ZMU-4 SUP 1.4.1

The ZMU-4 SUP 1.4.1 is a compatibility and bugfix update to ensure that it works with the latest ECS features. In addition, it contains a few features and improvements that are listed below.

Support for NIA-1

The ZMU-4 can now support the Network Interface Adapter NIA-1 and integrates seamlessly into any LBUS chains that connect to a NIA-1.

B.5. cforce mini RF SUP 2.4.1

The cforce mini RF SUP 2.4.1 is a compatibility and bugfix update to ensure that it works with the latest ECS features. In addition, it contains a few features and improvements that are listed below.

Support for NIA-1

The cforce mini RF can now support the Network Interface Adapter NIA-1 and therefore provide camera control to a Hi-5 & Hi-5 SX that is wirelessly connected while a NIA-1 connects a supported camera via LBUS and Ethernet. This works in conjunction with the newly available Licenses for Blackmagic URSA Cine and Sony BURANO.

In other configurations the cforce mini RF integrates seamlessly into any LBUS chains that connect to a NIA-1.

B.6.LCUBE CUB-1 SUP 3.1

The LCUBE CUB-1 SUP 3.1 is a compatibility and bugfix update.

Bugfixes and Improvements

As always this release contains numerous bugfixes and small improvements, including a new ZEISS communication protocol in preparation for future product support.

C. Update Instructions

How to get a Software Update Package

Download the latest Software Update Package to your computer.

Make sure the power supply of any ECS device is stable, e.g. by using a fully charged battery. Please note that powering over USB is not recommended during updating.

The latest firmware can be downloaded from the ARRI webpage: arri.com/sups

There are multiple approaches to update your ECS devices. For specific instructions please refer to the respective manual. It is recommended to update devices with a USB port directly via USB. Other options would be updating via LBUS through a Hi-5 or ALEXA camera.

Note: The ECS sync app is currently under maintenance and updating via the app is not possible for the time being.

Note: It can happen that an ALEXA camera shows an error message at the end of the update step when updating an ECS devices via LBUS. Usually, the update is successful and please check the firmware version of the updated device in case. This is a known issue and might happen due to a changed timing at the end of the update process. We are working on a solution and recommend other update procedures for the time being.

An Hi-5 update procedure is shown as an example below:

Hi-5 Update Procedure via USB

The Hi-5 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.

(1) Turn on the Hi-5.

(2) Insert the USB drive into the corresponding USB slot.

(3) Prepare the USB drive by entering the settings menu and selecting System/Update/Prepare USB medium.

(4) Unplug the USB drive from the Hi-5 and connect it to your computer.

(5) Copy the Software Update Package file into the folder *ARRI/Hi-5/SUP*, created on the USB drive.

(6) Eject the USB drive from your computer and insert it into the corresponding USB slot of the Hi-5.

(7) Enter the settings menu and go to *System/Update/Firmware Update* and select the update file.

(8) Confirm your selection by pressing ‘select’.

(9) Wait for the update file to be validated, then confirm by pressing ‘update’ and follow the update procedure.

(10) The update process takes about 90 seconds. The Hi-5 will re-boot two times during the update process. Then the update is completed.

(11) Please double check the software version under System/System Info.

LBUS Device Update Procedure

All LBUS devices, except the LCUBE CUB-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.
CUB-1 update only via ALEXA 35, Hi-5 or WCU-4.
Don't install CUB-1 SUP 3.1 via ALEXA Mini, ALEXA Mini LF, UMC-4 or AMC-1.
The following section provides details about updating via Hi-5 and an ARRI camera. 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.

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 the folder ARRI/ECS/

Performing the Update:

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

(2) Connect the device to a power source (e.g. LBUS - DTap).

(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 device you wish to update. The serial number is printed on the side of the device.

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

(8) Wait until the update process is finished.

(9) Power cycle the device by disconnecting it from the power source.

Do not remove the USB Stick, unplug the device or turn off the Hi-5 during the update.

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

Performing the Update:

(1) Connect the device to the cameras LBUS connector.

(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 device you wish to update 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) Wait until the update process is finished.

(8) Power cycle the device by disconnecting it from the power source.

Caution: Do not remove the USB stick or turn off the camera during the update!

Do not remove the USB drive while updating the Hi-5!
Please Note: after the update of any component all devices in the ECS System have to be restarted

D. ECS Ecosystem Known Issue Data Base

This list shall be a data source for known issues of the ARRI ECS ecosystem and help during trouble shooting.
Please make sure that each device is updated to the latest firmware and always make sure to read the corresponding release notes and manual of each device.

The latest firmware can be downloaded from the ARRI webpage: arri.com/sups

Hi-5 General Issues

LBUS Update sometimes does not show progress
Sometimes, when starting an LBUS update the progress bar is not shown. The Unit will still accurately report the update success.

Lens mapping not possible with 2 Hi-5 Units
Lens programming is only possible if there is only one Hand Unit connected to the camera. Please disconnect any additional units while mapping.

Radio state shows "REJ" shortly with RF-2400
When using a RF-2400 module for the first time or after a factory reset, the radio state is shortly displayed as "REJ". This is part of the initialization sequence of the Radio Module and only a visual irritation without further impact.

No lens scale via LDA
In rare cases, a camera does not load a LDA file properly, resulting in no lens scales on the Hi-5. Clear and reload the lens file in that case.

A calibration process is briefly indicated, when skipping calibration

When skipping a calibration request the hand unit might briefly indicate a calibration. This does not affect operation.

Hi-5 can't connect to camera with EMIP radio module

It rarely happens that the Hi-5 can’t connect to a camera via the EMIP radio module. The Hi-5 shows the radio connection indication bars greyed out. Unplug the radio module and reconnect it to the Hi-5 in this case.

Calibration cannot be skipped, when switching between LDA and LDS

In some cases, after calibrating an LDS lens, a subsequent switching to an LDA file results in a non-skippable calibration request. This can’t be fixed on the Hi-5, as some cameras handle this like a lens change and request a mandatory motor calibration.

Global Unit of camera is not synchronized with Hi-5 when using LDA

With some lens files the “Global unit” on the camera may differ from the unit shown at the Hi-5, as some LDA files don’t contain both scales (meters and/or feet).
Switching the global unit in the camera menu, will only switch the camera's display unit, but this change will not be passed on to the Hi-5.
Change the unit on the Hi-5 in the menu LENS > DISPLAY UNIT.

USB-A doesn't always work

Occasionally it happens that a USB drive is not recognized by the Hi-5 hand unit (USB indication missing on the LDD screen). Remove and reconnect the USB device in that case. Make sure that no USB device is connected to the other USB slot of the Hi-5.

Starting Recording from Playback does not exit playback

On an ALEXA 35 when a recording is started while the camera is in Playback the Playback mode may not be exited. Always leave playback before starting a recording.

OCU-1 User Buttons do not work when hardwired to Hi-5

When a OCU is wired to a Hi-5, the assigned User Buttons cannot be used.

After LBUS update via Hi-5, external device may need to be power cycled to reconnect

After performing a wired update to a LBUS device from the Hi-5 sometimes the connection is not reestablished after the update has concluded. Power cycle the device to establish a connection.

RF-2400 Radio Module not working after using them in an ARRI TRINITY 2 RCP-3

If the RF-2400 have been used in an ARRI TRINITY 2 Remote Control Panel RCP-3, they must be reconfigured to be ARRI ECS compatible. This is easily done by attaching them to a Hi-5 and waiting for about 10 seconds. As soon as they start working with the Hi-5 again, they are reconfigured and can be used in the Hi-5 ecosystem. This process must be done via the Hi-5 as the RIA-1 and ZMU-4 can't reconfigure the radio modules.

Lens file not synchronized between ECS motor controller and ALEXA camera with WCU-4 in the setup

The WCU-4 has an optional setting WCU-4 > SET LENS DATA > DATA SOURCE > CONTROLLER which disables that an LDA file is synchronized between an ECS motor controller (e.g. RIA-1, cforce mini RF) and an ALEXA camera. If CONTROLLER is set, the ALEXA camera and ECS motor controller can have different Lens Data.
Workaround: Please make sure to set the DATA SOURCE to CAMERA when using a WCU-4 in any setup.

Hi-5 Power Issues

Hi-5 reboots endlessly when powered via USB-C

In very rare cases the Hi-5 screen and blue status LED starts flickering, and the Hi-5 tries to reboot without success. This can occur when the Hi-5 is supplied via USB-C from a device with insufficient power rating. (e.g. when connected to a PC USB-port.)
Remove the USB-C cable and restart the Hi-5 with a battery inserted.

Power only via USB-C - Hi-5 vibration stops working

In some cases, when using the Recording beeper, the Hi-5 will not vibrate but beeps instead, when supplied only via the USB-C port. Power the Hi-5 with a battery in that case.

Hi-5 doesn't start (stuck on ARRI logo) when powered via USB-C

In very rare cases, powering the Hi-5 via USB may cause a corrupted file system on the Hi-5, which results in a stuck booting phase when unplugging.
If possible, shut off the Hi-5 before unplugging the USB-C Cable. If the issue occurs, boot into recovery mode (center and right soft button), wait for the display to light up and then reboot. If this doesn't work, remove the battery, and wait for the Hi-5 to shut down.

Wrong capacity indication of new battery pack

When using a brand-new smart battery for the first time (Li-Ion Battery Pack LBP-3500), the battery capacity status indicates a wrong percentage on the Hi-5 display. This is a normal behavior for a smart battery. The real capacity is determined during its first discharge cycle.

RIA-1 General Issues

Override issues with OCU-1 or Master Grips

Override is not always possible if an OCU-1 or Master Grip are used in combination with a RIA-1:

- Override is not supported for wireless control units. It is therefore not possible to use the override function of an OCU-1 or Master Grip if they are connected to a RIA-1 in client mode.
- It is currently not possible to use the override function when the RIA-1 is connected to an ALEXA Mini with the optional LBUS – LBUS connection.
  Workaround: Connect the RIA-1 to the camera only via CAM to EXT or set up the system that the corresponding axis is only controlled via the OCU-1 (disable that lens axis in the Hi-5 Menu > Control Setup).

Manual calibration issues

Manual calibration is only possible in combination with an ECS motor controller and not, when connected to an ALEXA camera directly.
When using the manual calibration feature on the Hi-5, it might happen that after the manual calibration the scales are greyed out or in override catch mode while having full control of the motor.
Workaround: Perform another manual calibration or reboot the ESC system.

No camera control via LBUS-to-LBUS connection to cameras

The RIA-1 and cforce mini RF don't support camera control and playback features over LBUS. Always use the CAM connector when connecting to a camera.
ALEXA 35: Connect via CAM to LBUS.
ALEXA Mini LF: Connect via CAM to LBUS.
ALEXA Mini / AMIRA: Connect via CAM to EXT.
ALEXA Plus cameras: Connect via CAM to LCS.
Please check the ECS configuration guides on our website for more info.

Lens motor direction change

The standard lens motor direction of ALEXA cameras is left and it can happen that the lens motor direction is automatically changed to left when connecting an ALEXA camera to the RIA-1 or cforce mini RF LBUS or CAM port. Please check the motor direction after connecting an ALEXA camera.

Blocked lens axis when using OCU-1 or Master Grips

Please ensure that the OCU-1 or Master Grips are updated at least to SUP 2.0.2.
When using an OCU-1 or Master Grip in a wireless configuration on a ZMU-4 or RIA-1 (client), please ensure that no User Button is assigned to F/I or FIZ toggle.

RF-2400 Radio Module not working after using them in an ARRI TRINITY 2 RCP-3

If the RF-2400 radio modules had been used in an ARRI TRINITY 2 Remote Control Panel RCP-3, they must be reconfigured to be ARRI ECS compatible. This is easily done by attaching them to a Hi-5 and waiting for about 10 seconds. As soon as they start working with the Hi-5 again, they are reconfigured and can be used in the Hi-5 ecosystem. This process must be done via the Hi-5 as the RIA-1 and ZMU-4 can't reconfigure the radio modules.

Deactivate Smart Focus Ring Auto Detection when connecting via RS to Sony VENICE cameras

As the Sony Venice cameras don't send the REC / tally status via RS, it could happen that a smart focus ring becomes deactivated during REC.
Therefore, it is recommended to deactivate the automatic smart ring detection in the Hi-5 when connecting to a Sony VENICE camera with a CAM – RS cable.
There is no issue when using the CAM – Sony Ctrl cable.

Lens file not synchronized between ECS motor controller and ALEXA camera with WCU-4 in the setup

The WCU-4 has an optional setting WCU-4 > SET LENS DATA > DATA SOURCE > CONTROLLER which disables that an LDA file is synchronized between an ECS motor controller (e.g. RIA-1, cforce mini RF) and an ALEXA camera. If CONTROLLER is set, the ALEXA camera and ECS motor controller can have different Lens Data.
Workaround: Please make sure to set the DATA SOURCE to CAMERA when using a WCU-4 in any setup.

RIA-1 Updating

Update via LBUS is not possible with a connected USB-C drive

Currently RIA-1 can only be updated via LBUS if no USB drive is connected to the RIA-1.
Workaround: Remove the USB-C drive before updating via LBUS or update RIA-1 per USB.

Update via LBUS triggers failure warning

When updating the RIA-1 via LBUS with an ALEXA camera, it might happen that the update fails, and the camera shows an update failed warning.
Workaround: Update the RIA-1 via USB-C.

RIA-1 Update duration via LBUS

If using a camera or a hand unit to update the RIA-1 over LBUS, the update duration is slower compared to the USB-C update and takes 2-3 minutes.
Workaround: Update the RIA-1 via USB-C.

Update via LBUS triggers failure warning

When updating via LBUS with an ALEXA camera, it might happen that the camera shows an update failed warning. Usually, the update is successful and please check the firmware version of the updated device in case.
Workaround: Update the RIA-1 via USB-C or via LBUS with a Hi-5

Update file not found on USB-C drive

The RIA-1 can only see up to 9 update files on the USB drive. Please make sure to clear old SUP versions or use an empty USB-C drive.

NIA-1

Network channel not consistent after factory reset

After a factory reset the Network channel on the Web Interface may not be accurate. The channel shown on the device display is always correct.

Hotplugging an USB-C to Ethernet adapter can cause NIA-1 to become temporarily unavailable

If a USB-C to Ethernet adapter is unplugged and then quickly replugged the NIA-1 network may become unavailable for 5 minutes. Avoid hot plugging or reboot the device.

cforce mini RF

cforce mini RF in host mode on ALEXA Mini with CAM – EXT and optional LBUS – LBUS connection

If 3 or more lens motors are used in the system, there can be unstable motor control issues or reoccurring new motor pop ups when using a cforce mini RF in radio host mode on an ALEXA Mini camera in case the optional LBUS – LBUS for lens metadata transfer is connected.
Workaround: Don’t connect the optional LBUS – LBUS on an ALEXA Mini when using 3 or more lens motors.

Manual calibration issues

Manual calibration is only possible in combination with an ECS motor controller and not, when connected to an ALEXA camera directly.
When using the manual calibration feature on the Hi-5, it might happen that after the manual calibration the scales are greyed out or in override catch mode while having full control of the motor.
Workaround: Perform another manual calibration or reboot the ESC system.

No camera control via LBUS-to-LBUS connection to cameras

The RIA-1 and cforce mini RF don’t support camera control and playback features over LBUS. Always use the CAM connector when connecting to a camera.
ALEXA 35: Connect via CAM to LBUS.
ALEXA Mini LF: Connect via CAM to LBUS.
ALEXA Mini / AMIRA: Connect via CAM to EXT.
ALEXA Plus cameras: Connect via CAM to LCS.
Please check the ECS configuration guides on our website for more info.

Lens motor direction change

The standard lens motor direction of ALEXA cameras is left and it can happen that the lens motor direction is automatically changed to left when connecting an ALEXA camera to the RIA-1 or cforce mini RF LBUS or CAM port. Please check the motor direction after connecting an ALEXA camera.

Lens file not synchronized between ECS motor controller and ALEXA camera with WCU-4 in the setup

The WCU-4 has an optional setting WCU-4 > SET LENS DATA > DATA SOURCE > CONTROLLER which disables that an LDA file is synchronized between an ECS motor controller (e.g. RIA-1, cforce mini RF) and an ALEXA camera. If CONTROLLER is set, the ALEXA camera and ECS motor controller can have different Lens Data.
Workaround: Please make sure to set the DATA SOURCE to CAMERA when using a WCU-4 in any setup.

Update via LBUS triggers failure warning

When updating via LBUS with an ALEXA camera, it might happen that the camera shows an update failed warning. Usually, the update is successful and please check the firmware version of the updated device in case.
Workaround: Update via LBUS with a Hi-5

LCUBE CUB-1

LCUBE CUB-1 not compatible with RIA-1

The RIA-1 has a dedicated serial connector, and it is not intended to use the RIA-1 and a LCUBE CUB-1 in the same LBUS daisy chain.
Workaround: Use the RIA-1 serial port.

CUB-1 not functional after failed update

Problem: CUB-1 might be bricked after a failed update attempt via ALEXA Mini and ALEXA Mini LF.
Workaround: We recommend updating any CUB-1 (with firmware v3.0 or older) via ALEXA 35, Hi-5, WCU-4.
Don't perform update 3.1 for CUB-1 via ALEXA Mini/ LF, UMC-4 or AMC-1.

LCUBE CUB-2

UMC-4 – After turning Hi-5/WCU-4 off control is not handed to Master Grip

A setup containing Master Grips and UMC-4 might not hand over Axis control if the Hand Unit is switched off.

AMC-1 – Iris and Focus axis move at the same time when control over Hi-5/WCU-4

In a setup containing an AMC-1 Iris and Focus can move simultaneously when controlled by a Hand Unit.

EVO360/Hi-5/A35 - motor control is not released

The EVO360 may not release motor control to a hand unit. Remove the CUB-2 briefly from the LBUS chain to gain control.

Legacy ARRI cameras

General advice when using an ECS motor controller with ALEXA cameras

Always wait until ALEXA cameras are fully booted before using ARRI ECS. The ECS motor controllers boot much faster than an ALEXA camera which might lead to inconsistencies, if lens files are transferred or motors are calibrated during the camera boot up phase.
In addition, clip list handling requires lots of wireless data and the clip list transfer and clip list handling can be slow if more than 50 clips are stored on the CODEX drive. Please avoid long clip lists if possible.

No codec information with legacy cameras

There is no codec information with ARRI legacy cameras. This issue can’t be fixed and was apparent also with the WCU-4, as ARRI legacy cameras don’t transmit this information to hand units.

Truncated custom tint with legacy cameras

ARRI legacy cameras (e.g. ALEXA LF) do not support decimal values for custom tint. The custom tint will instead get truncated to the closest value.

Legacy Cameras - No LDA file transfer

LDA transfer to a legacy camera (ALEXA LF / SXT) is not possible.
Use an SD Card to transfer the LDA files to the camera.

RED cameras

General advice:
For the RED camera control license, depending on the type of RED camera (DSMC2, DSMC3), a specific baud rate must be selected in the camera settings. Please see the following table for baud rate setting for specific RED cameras:

	Baud rate
DSMC2: Dragon / Gemini / Helium / Monstro	115200
DSMC3: Komodo, V-Raptor	460800

RED cameras: pre-record doesn't work from Hi-5
When using a cforce mini RF or RIA-1 with the Hi-5, the pre-record function of RED cameras is not supported by the Hi-5.
Please activate pre-recording via camera or assign a user button on the RED camera to Start/Stop.

RED Komodo: Playback manipulation not possible
FFW and FBW in playback mode is not supported by RED Komodo.

Sony cameras

Sony VENICE 1&2 no clip list, no progress bar
The camera does not transfer the whole clip list table via the remote interface, only one clip is shown at a time.
The progress bar has no function as the current time of the clip is not transferred either.

Sony VENICE 1&2 Hi-5 jumps to cam screen in between clips
When browsing or changing clips in playback mode, the camera sends a standby signal in between clips, for this reason the hand unit jumps back to the cam screen in between clips.

Sony VENICE 1&2 user buttons not supported
The camera user buttons are not accessible via Hi-5, as the camera does not support this feature via the remote interface.

Sony VENICE 1&2: FPS setting accessible with active "fixed FPS"
The FPS setting is always accessible via Hi-5, as the camera does not transport information about a fixed FPS over the remote interface. Changing the frame rate on the Hi-5 in fixed FPS has no effect on the FPS setting in the camera!
Workaround: Set FPS to variable in the camera.

Sony VENICE 1&2 camera info not supported
The camera info is not accessible via Hi-5, as the camera does not transport this information over the remote interface.

Sony VENICE 1&2: Settings greyed out even when RCP mode is toggled
In some cases, it can occur that camera settings on a Hi-5 are greyed out and cannot be changed by the hand unit, even with active RCP mode. Power cycle the ECS system to regain settings control.

Deactivate Smart Focus Ring Auto Detection when connecting via RS to Sony VENICE cameras
As the Sony VENICE cameras don't send the REC / tally status via RS, it could happen that a smart focus ring becomes deactivated during REC.
Therefore, it is recommended to deactivate the automatic smart ring detection in the Hi-5 when connecting to a Sony VENICE camera with a CAM – RS cable.
There is no issue when using the CAM – Sony Ctrl cable.

Sony BURANO: With variable ND no 0.05 steps are selectable on Hi-5
Currently Hi-5 can only command ND steps with 0.1 precision. Any Values with 0.05 granularity have to be selected on the camera.

Focusbug Cine RT

Clear All Focusbug CineRT marks via RIA-1

There is an issue that the Clear All > All marks command doesn't clear Focusbug Cine RT marks.
Workaround: Focusbug marks can be cleared on the Hi-5 via Clear All > Focusbug or individually by rotating the focus knob to the mark position and pressing the *Mark F* Display button. It is also possible to use the Cine RT handset to clear Focusbug Cine RT marks.

Deactivated Focus Ring when using Focusbug Cine RT and Cinefade in one setup

Currently, an active Focus Ring becomes deactivated when engaging focus tracking in a setup with Focusbug Cine RT and a Cinefade device being connected to the RIA-1 LBUS port.
Workaround: Set focus ring to blank ring to avoid a mismatch of the focus ring and focus scale.

No distance value shown on the Hi-5 or Focusbug license not working

If a distance measure device is connected to the RIA-1, but no distance value is shown, check if the correct serial mode is set in the RIA-1.
Serial Mode > UDM: Use this setting when connected to a ARRI's Ultrasonic Distance Measure (UDM-1) or a CineTape Measure Control.
Serial Mode > Focusbug: Use this setting when connected to a Focusbug Cine RT via ARRI Hi-Speed protocol. Make sure that the ARRI Hi-Speed protocol is also activated in the Cine RT handset.

Cinefade

Cinefade: Filter slightly jittering with LDS lenses

In some setups with LDS lenses, the Cinefade might jitter slightly on its own, while not being controlled. The issue does not occur when using a LDA table.

Cinefade Vari ND mode does not respect optical safe range

When using the Cinefade in Vari ND mode the optical safe range is not considered.