TRINITY 2 SUP 1.5

Software Update Package 1.5

Sept. 2023

1   Introduction / Change Log

Introduction

We hereby announce the release of the Software Update Package **SUP 1.5** for the RCP-3 and TRINITY 2 head.
This release ensures compatibility of the RCP-3 and the TRINITY 2 head, and it also contains several bug fixes.

Recommendation

We highly recommend updating your RCP-3 and the TRINITY 2 head to this Software Update Package.
This update is mandatory to ensure overall system performance.

NOTE
To get the maximum performance from the new TRINITY 2 SUP, we also recommend updating the Master Grip 1 & 2 to the new **MGT Software Update Package SUP 1.0.12**.

Change Log

1.
New RCPU firmware A02.02.02.
Improved pairing and communication for the RF-2400 Radio Module 2400 MHz FHSS.

2.
New **world-related** LIMIT function.
World-related means that the limits refer to the position of the **camera in space** and **not** anymore to the position of the camera in the TRINITY head.

3.
Additional info text on the LIMIT settings page.

4.
0 has been replaced by **NONE** in the LIMIT setup menu.

5.
Previously set limits, become inactive as soon as automated movements are retrieved.
For example:
When TRUE Roll is started, the limits of the roll axis are temporarily disabled.

6.
Reduction of the response time of the controller keys.
The six buttons of the Master Grip TRINITY now respond faster and feel more direct.

7.
TILT motor ON/OFF has been improved.
TILT lights up **red** when the motor is switched **off**.

8.
The timeout functionality in TRUE ROLL, TRUE TILT and HOME has been optimized.
Unfinished automations, such as TRUE ROLL, TRUE TILT and HOME, can now be reset by pressing the HOME button.

9.
COUPLING point can be changed on the fly.
This was not possible until now.

10.
Improvement GYRO calibration procedure.

11.
Increase FOCUS and IRIS motor speed in angle mode.
When using OCU-1, higher speeds can now be achieved.

12.
Novel calculation of the RAMP function.
This is now dependent on the desired length and speed of the planned camera movement.
Thus, the expected speed of the planned camera movement can be achieved.

13.
Additional warning page with information on reactivating the TILT motor.
Especially for reducing the speed of the ROLL motor if it was previously set extremely fast.

14.
FOLLOW mode enable/disable functionality improved.
Seamless change of modes, without position corrections of the motors .

15.
New standard minimum motor power values of **35%** for TILT and ROLL.

16.
New maximum ROLL speed of up to **720°/sec** in X mode when the TILT motor is switched off and mechanically locked.

17.
New maximum ROLL speed of up to **240°/sec** in TRINITY mode.

Status screen after the update

RCP2#XXXXXXX	FoMa S/N	TRINITY2#XXXXXX
XXXXXXXXX	ARRI S/N	XXXXXXXXXX
A00.01.50	CCPU Ver.	A00.01.50
	MCPU ver.	V02.00.08
LCPU V03.00.07	LCP ver.	LCPU V03.00.07
A02.02.03	RCPU ver. *	A02.02.03
v1.0	Bootloader	v1.0

Note

* Radio Modul
The software status is only displayed here if a radio module is installed.

Known Bugs

If you intend to control cforce mini motors directly via the RCP-3, please make sure that the motors have **NOT been updated** to the current **cforce mini SUP 2.0** version.

The cforce mini SUP 2.0 version is in some ways too good for the current TRINITY 2 LBUS software.

Therefore we ask you to **downgrade** the cforce mini motors to the older **SUP 1.3.4** in case of problems like vibration.

2   SUP Link / Technical Requirements

How to get a Software Update Package

You can find the Software Update Package (SUP) in the TRINITY 2 download section on:

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

Download the latest Software Update Package to your computer.

Technical Requirements

The Software Updade can be done securely with a Apple M1 and M2 or Windows 10 computer.

If this is the first update with a Windows computer, you also need to download a **USB driver** (MSR ST Virtual COM Port Driver V 1.4.0.).

You can find the USB driver on the ARRI CSS web page.

USB Cables

USB-A to USB-C	**OK**	
USB-C to USB-A adapter USB-A to USB-C	**OK**	
USB-C to USB-C	**NOT OK**	
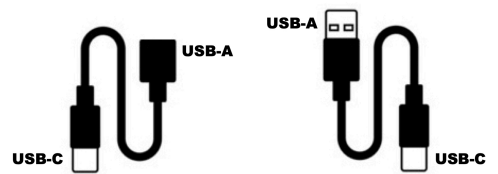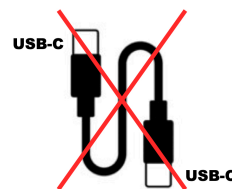
ADVICE
A direct USB-C to USB-C connection is not compatible in this software update application.

3   Update Preparations

No camera is required for the software update.

Park the fully prepared rig in the docking bracket.
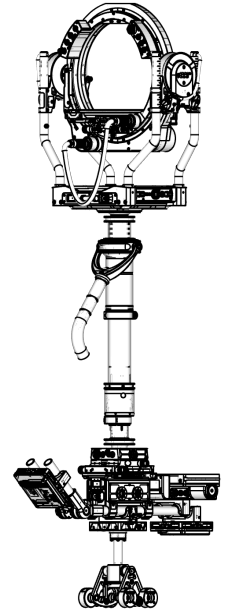
TRINITY 2 Head

1. Lock the **Tilt Lock!**

2. Switch **OFF** Main Power
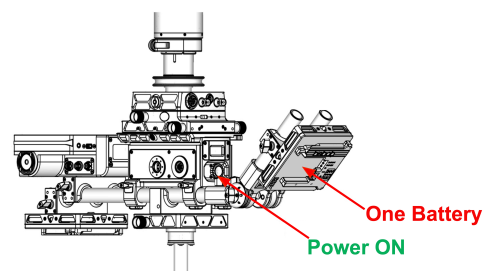
3. Switch **OFF** TRINITY

Tilt Lock ON

Main Power OFF

TRINITY OFF
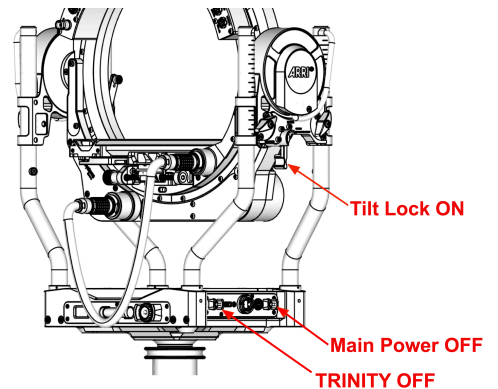
ADVICE
Make sure the TRINITY 2 head is **powered off** while the RCP-3 is being updated.

Battery Hanger Preperations

4. Place minimum one battery.

5. Switch **ON** the Battery Hanger.

One Battery

Power ON

4 Update Instructions Apple Computers

USB Cables
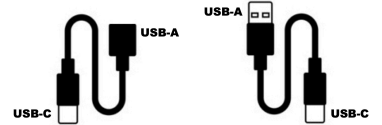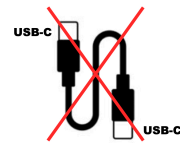
USB-A to USB-C	**OK**	
USB-C to USB-A adapter USB-A to USB-C	**OK**	
USB-C to USB-C	**NOT OK**	

ADVICE
A direct USB-C to USB-C connection is not compatible in this software update application.

RCP-3 Preperations

ON

1. Switch **ON** the RCP-3.

Connect the USB Cable to the RCP

2. Connect the USB cable to the RCP-3.

OR

Updater Programm

<table>
<tr><td>ADVICE</td></tr>
</table>
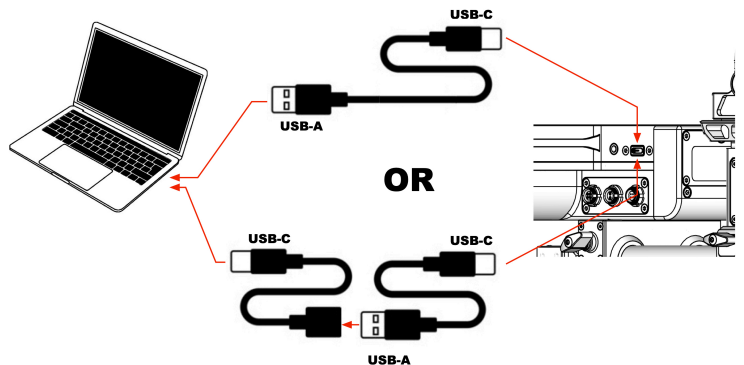
It is imperative that the RCP-3 and TRINITY 2 head are always updated with the same current software!
Different software versions prevent the use of the entire system.

TRINITY 2 SUP 1.5.dmg

3. Double click the DNG file first.

TRINITY2_update_A00.01.5_mac.app

4. Double click to start the updater program.

5. Click **Update** to start the upload process.

6. During the update, the progress is displayed on the screen.

7. Once the software file has been uploaded into the RCP-3, the RCP-3 will **reboot** and a **gray screen** and the progress bar will appear.

Update progress
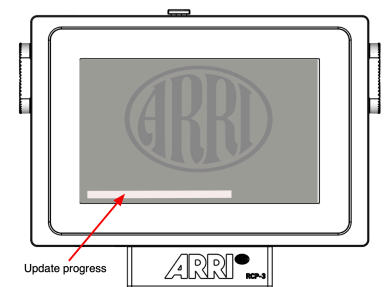
8. After the software update has been successfully completed, the RCP-3 restarts and the standard **blue** start screen is displayed.

Updating the TRINITY 2 Head

OFF

9. Switch **OFF** the RCP-3 first!
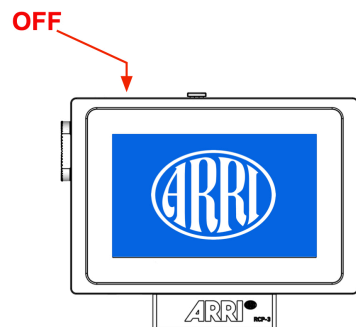
10. Switch **ON** the TRINITY 2 **Main Power**.

ADVICE
Keep the TRINITY switched **OFF**!

Tilt Lock ON

Main Power ON

TRINITY OFF
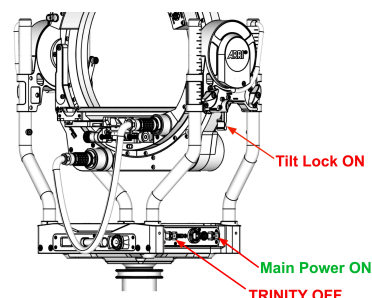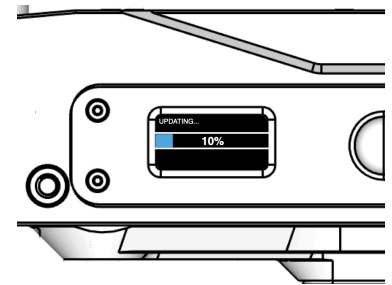
11. Connect the USB cable to the TRINITY 2 head.
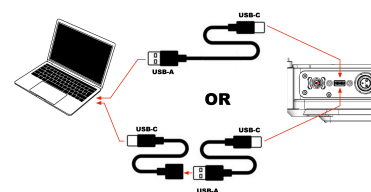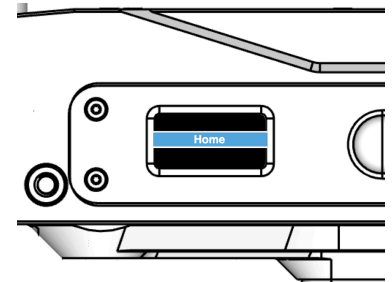
12. **Restart** the updater program.

13. Click **Update** to start the upload process.

14. Once the software file has been uploaded into the TRINITY 2 head, the TRINITY 2 will reboot and the progress bar will appear in the display at the back.

15. After the software update has been successfully completed, the TRINITY 2 head restarts and the standard start screen is displayed.

16. Update completed.

Final Check

Now swich on the RCP-3 and go to:
• Main Menu
• Software Status

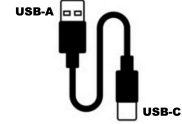Make sure that the RCP-3 and the TRINITY 2 head got the same software status. (marked red)

5   Update Instructions Windows 10 / 11 Computers

USB Cables

USB-A to USB-C	**OK**

USB-C to USB-A
adapter   **OK**
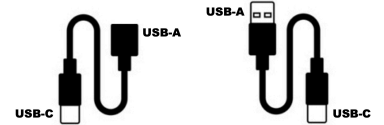
USB-A to USB-C

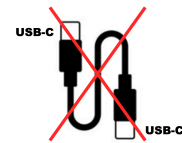|	
USB-C to USB-C	**NOT OK**

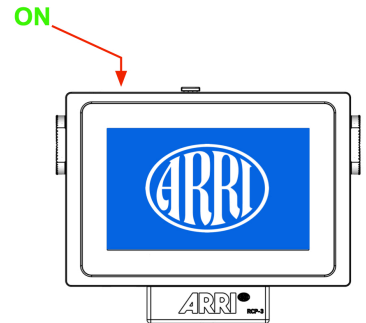<div style="background:#1a6fb0;color:white;text-align:center">ADVICE</div>

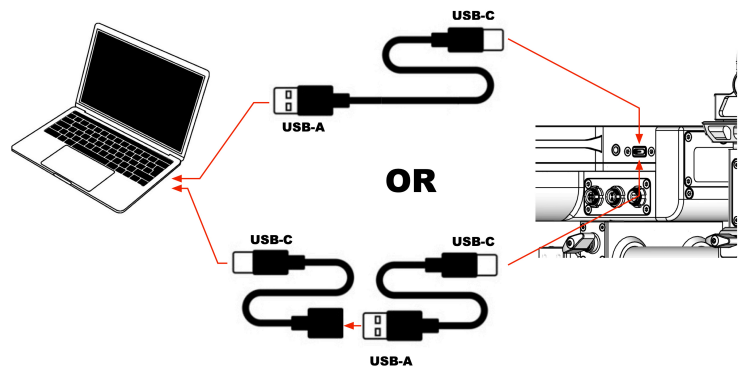A direct USB-C to USB-C connection is not compatible in this software update application.

RCP-3 Preperations

ON

1. Switch **ON** the RCP-3.

Connect the USB Cable to the RCP

2. Connect the USB cable to the
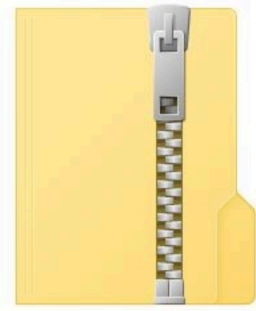   RCP-3.

OR

Updater Programm

ADVICE
It is imperative that the RCP-3 and TRINITY 2 head are always updated with the same current software! **Different software versions prevent the use of the entire system.**

3. Double click the ZIP file.
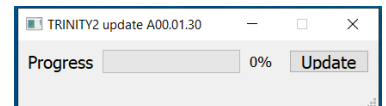
4. **NOTE**
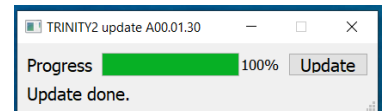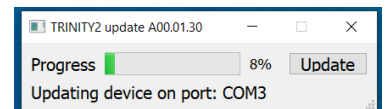   You must extractrac the file first

Windows_updater-A001.01.5
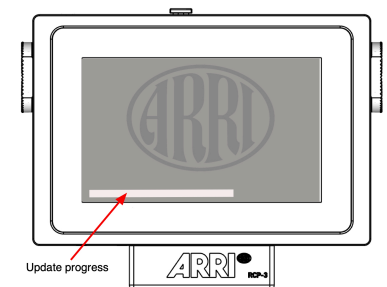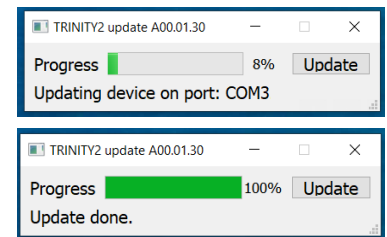
5. Double click to start the updater program.

6. Click **Update** to start the upload process.

7. During the update, the progress and the used COM Port is dis-
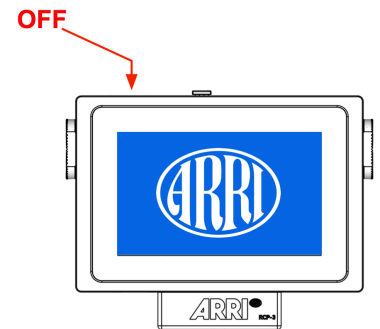   played on the screen.

8. During the update, the progress and the used COM Port is displayed on the screen.

9. Once the software file has been uploaded into the RCP-3, the RCP-3 will **reboot** and a **gray screen** and the progress bar will appear.

10. After the software update has been successfully completed, the RCP-3 restarts and the standard **blue** start screen is displayed.
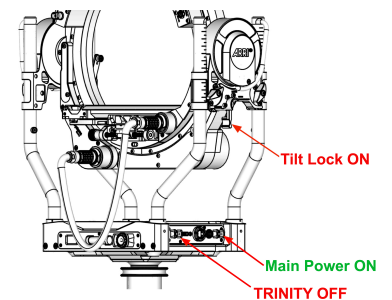
Updating the TRINITY 2 Head
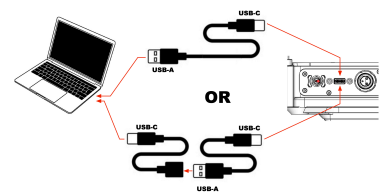
OFF

11. Switch **OFF** the RCP-3 first!

12. Switch **ON** the TRINITY 2 **Main Power**.

Tilt Lock ON

Main Power ON

TRINITY OFF

ADVICE
Keep the TRINITY switched **OFF**!

13. Connect the USB cable to the TRINITY 2 head.

USB-C

USB-A

OR

USB-C   USB-C

USB-A

14. **Restart** the updater program.

15. Click **Update** to start the upload process.

TRINITY2 update A00.01.30
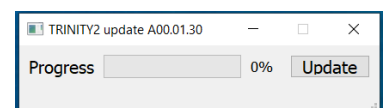
Progress   0%   Update

16. Once the software file has been uploaded into the TRINITY 2 head, the TRINITY 2 will reboot and the progress bar will appear in the display at the back.
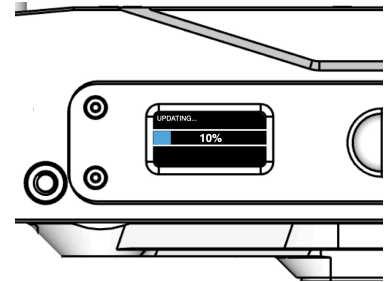
17. After the software update has been successfully completed, the TRINITY 2 head restarts and the standard start screen is displayed.
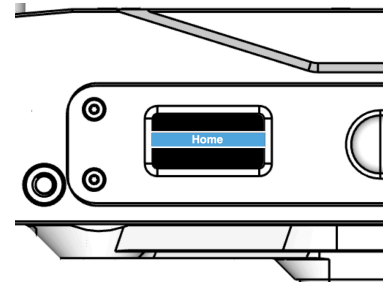
18. The update is complete.

Final Check

Now swich on the RCP-3 and go to:

• Main Menu
• Software Status

Make sure that the RCP-3 and the TRINITY 2 head got the same software status. (marked red)

	Software Status		
	Remote	Kind	Head
	RCP3#xxxxxx	FoMa S/N	TRINITY2#xxxxxx
Profile 1	K2.00xxxxx	ARRI S/N	K2.00xxxxx
	A00.01.5	CCPU ver.	A00.01.5
	-	MCPU ver.	V 0.200.2
Profile 2	LCPU V 03.00.07	LCPU ver.	LCPU V 03.00.07
	-	RCPU ver.	-
Profile 3	V 0.8	Bootloader	V 0.8

Trouble Shooting

If this screen appears, it means that there is no connection to the RCP-3 / TRINITY 2 head.

• Check the USB-C cable connection.
• Try installing the USB driver manually.

NOTE
The driver can be found on the ARRI CSS website.

• Try the update again after restarting the PC and reconnecting the cables and components.

TRINITY2 update A00.01.30   — □ ✕
Progress   0%   Update
Cannot find device to flash.