



User Manual

ARRI RCU-4

Remote Control Unit for
ARRI ALEXA

All rights reserved.

This document is provided under a license agreement containing restrictions on use and disclosure and is also protected by copyright law.

Due to continued product development this information may change without notice. The information and intellectual property contained herein is confidential between ARRI and the client and remains the exclusive property of ARRI. If you find any problems in the documentation, please report them to us in writing. ARRI does not warrant that this document is error-free.

Arnold & Richter Cine Technik
Tuerkenstr. 89
D-80799 Munich
Germany

[mailto: service@arri.com](mailto:service@arri.com)
<http://www.arri.com>

Scope

This instruction manual applies to the following hardware:

ARRI RCU-4

Document revision history

No.	ID	drawing	release/ revision	date
1	K5.72994.0	2035-01-00-00-04	FG896	18th Oct 2010
2	K5.72994.0	2035-01-00-00-04	K7956	7th Jan 2013

1 Disclaimer

Before using the products described in this manual be sure to read and understand all respective instruction.

The ARRI ALEXA is only available to commercial customers. The customer grants by utilization that the ARRI ALEXA or other components of the system are deployed for commercial use. Otherwise the customer has the obligation to contact ARRI preceding the utilization.

While ARRI endeavors to enhance the quality, reliability and safety of their products, customers agree and acknowledge that the possibility of defects thereof cannot be eliminated entirely. To minimize risk of damage to property or injury (including death) to persons arising from defects in the products, customers must incorporate sufficient safety measures in their work with the system and have to heed the stated canonic use.

ARRI or its subsidiaries do not assume any responsibility for incurred losses due to improper handling or configuration of the camera or other system components, due to sensor contamination, occurrence of dead or defective pixels, defective signal connections or incompatibilities with third party recording devices.

ARRI assumes no responsibility for any errors that may appear in this document. The information is subject to change without notice.

For product specification changes since this manual was published, refer to the latest publications of ARRI data sheets or data books, etc., for the most up-to-date specifications. Not all products and/or types are available in every country. Please check with an ARRI sales representative for availability and additional information.

Neither ARRI nor its subsidiaries assume any liability for infringement of patents, copyrights or other intellectual property rights of third parties by or arising from the use of ARRI products or any other liability arising from the use of such products. No license, express, implied or otherwise, is granted under any patents, copyrights or other intellectual property right of ARRI or others.

ARRI or its subsidiaries expressly exclude any liability, warranty, demand or other obligation for any claim, representation, or cause, or action, or whatsoever, express or implied, whether in contract or tort, including negligence, or incorporated in terms and conditions, whether by statute, law or otherwise. In no event shall ARRI or its subsidiaries be liable for or have a remedy for recovery of any special, direct, indirect, incidental, or consequential damages, including, but not limited to lost profits, lost savings, lost revenues or economic loss of any kind or for any claim by third party, downtime, good-will, damage to or replacement of equipment or property, any cost or recovering of any material or goods associated with the assembly or use of our products, or any other damages or injury of the persons and so on or under any other legal theory.

In the case one or all of the foregoing clauses are not allowed by applicable law, the fullest extent permissible clauses by applicable law are validated.

ARRI is a registered trademark of Arnold & Richter Cine Technik GmbH & Co Betriebs KG.

Note: This product and the accessories recommended by the manufacturer fulfill the specifications of the European Directive 2004/108/EC (15th December 2004).

This product contains licensed technology from Linotype.

This product meets CE regulations.

2 Safety Instructions

Any violation of these safety instructions or non-observance of personal care could cause serious injuries (including death) to users and affiliates and damage to the equipment or other objects.

2.1 Explanation of Warning Signs and Indications



Indicates a possible risk of injury or damage to the equipment



Indicates the risk of electric shock or fire danger that could result in injury or damage to the equipment.

Note: Indicates further information or information from other instruction manuals

2.2 General Safety Instructions



- Always follow these instructions to ensure against injury to yourself or others and damage to the system or other objects.
- This safety information is in addition to the product specific operating instructions in general and must be strictly observed for safety reasons.
- Read and understand all safety and operating instructions before you operate or install the system!
- Retain all safety and operating instructions for future reference.
- Heed all warnings on the system and in the safety and operating instructions before you operate or install the system. Follow all installation and operating instructions.
- Do not use accessories or attachments that are not recommended by ARRI, as they may cause hazards and invalidate the warranty!
- Do not attempt to repair any part of the system! Repairs must only be carried out by authorized ARRI Service Centers.

2.3 Specific Safety Instructions



- Do not remove any safety measures from the system!
- Do not operate the system in areas with humidity above operating levels or expose it to water or moisture!
- Do not subject the system to severe shocks!
- Do not place the system on an unstable trolley/hand truck, stand, tripod, bracket, table or any other unstable support device! The system may fall, causing serious personal injury and damage to the system or other objects.
- Operate the system using only the type of power source indicated in the manual! Unplug the power cable by gripping the power plug, not the cable!
- Never insert objects of any kind into any part of the system if not clearly qualified for the task in the manual, as objects may touch dangerous voltage points or short out parts! This could cause fire or electrical shock.
- Unplug the system from the power outlet before opening any part of the system or before making any changes to the system, especially the attaching or removing of cables!
- Do not use solvents to clean!
- Do not remove any stickers or paint marked screws!

3 General Precautions

3.1 Storage and Transport

- All cables have to be unplugged from the RCU-4 when it is transported or stored inside a case.
- Do not store the RCU-4 in places where it is subject to extreme temperatures, direct sunlight, high humidity, severe vibration, or near strong magnetic fields.

3.2 Electromagnetic Interference

The RCU-4 meets EC regulations by fulfilling the specifications of the European Directive 2004/108/EC (15th December 2004).

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

4 Power Supply



- Only use recommended power supply solutions.
- Manipulation of power supplies can result in severe damage to the equipment and humans, including death.

The RCU4 accepts an input voltage range from 10.5 to 34 V DC.

5 ARRI RCU-4

RCU-4 Image



Figure 1: RCU-4

Introduction

The RCU-4 is a compact and robust remote control unit for the ARRI ALEXA camera. It mirrors the controls of the camera's right side. For information on how to control the camera, please refer to the current ARRI ALEXA User Manual, which can be downloaded from the ARRI website: www.arri.com

Part List

Order numbers

K2.72036.0

Parts

RCU-4 Remote Control Unit for ALEXA complete

Pack list

K5.72948.0

RCU-4 Remote Control Unit for ALEXA

K2.72040.0

RCU-4 Protective Cover

K5.72994.0

KC 157-S ALEXA Ethernet Remote Cable 2m (6.5')

RCU-4 User Manual

Additional accessories (separately available)

K2.72041.0	KC 158-S ALEXA Ethernet Remote Cable 1m (3.25')
K2.72043.0	KC 159-S ALEXA Ethernet Extension Cable 15m (50')
K2.72045.0	ARRI Shoulder Strap
K2.65020.0	UMA-120 Universal Mounting Arm 120mm length
K2.41100.0	UMA-240 Universal Mounting Arm 240mm length

Connecting the RCU-4 to an ALEXA

- The RCU-4 is connected to the camera by cable.
- Two different cable lengths are available:

Type	Length	Order number
KC 157-S	2m (6.5')	K2.72040.0
KC 158-S	1m (3.25')	K2.72041.0
- Connect the male plug of the cable (black cable sleeve) to the ETHERNET port of the camera and the female plug (blue cable sleeve) to the RCU-4.
- Either cable can be extended with an extension cable. Please note that the extension cable on its own cannot connect the RCU-4 to the camera.

KC 159-S	15m (50')	K2.72043.0
----------	-----------	------------
- Multiple extensions can be connected to each other, however, the maximum allowed cable length between camera and RCU-4 is 47m (154'). Thus three KC 159-S plus one KC 157-S can be combined.

Note: Do not kink the cables! The minimum allowed bending radius is 70mm (2.75").

Operation

- RCU-4 Power on:

After connecting the RCU-4 to the camera, make sure the camera is powered on, then press the RCU-4 power button. The RCU-4 will take approx. 25 seconds to boot.

- RCU-4 Power off:

Press the power button. The power off screen will appear. Then press the lower right screen button to switch off the power.

Note: The RCU-4 must be connected to a camera to be powered. Disconnecting the RCU-4 from a camera will result in immediate shutdown of the RCU-4 due to loss of power.

Note: The RCU-4 power button only affects the RCU-4, not the camera.

- Lock/Unlock:

To lock or unlock the RCU-4, press the LOCK button. The lock screen will appear. Press the lower right screen button to lock/unlock the device.

Note: Locking/unlocking the RCU-4 does not affect the camera.

- RCU-4 settings:

Go to MENU>System>RCU-4 settings to change the following settings:

Setting	Description
Display brightness	Changes the brightness of the RCU-4 display
Button brightness	Changes the brightness of the RCU-4 button illumination
Inverse wheel direction	Inverses the scroll direction of the RCU-4 wheel
Reset RCU-4 settings	Resets the variable values to their factory default

Note: these settings only appear in the menu of the RCU-4.

- Firmware update:

When powering the RCU-4, it will automatically compare its firmware version to the one installed on the camera. When the two versions do not match, the RCU-4 will receive the matching version from the camera via the Ethernet cable. This can take some time. When the firmware update is complete, the RCU-4 can be used normally with the camera.

Note: The RCU-4 cannot be used with cameras that have a firmware version prior to SUP 3.1 installed.

- Protective cover:

The RCU-4 can be used with or without the protective cover.

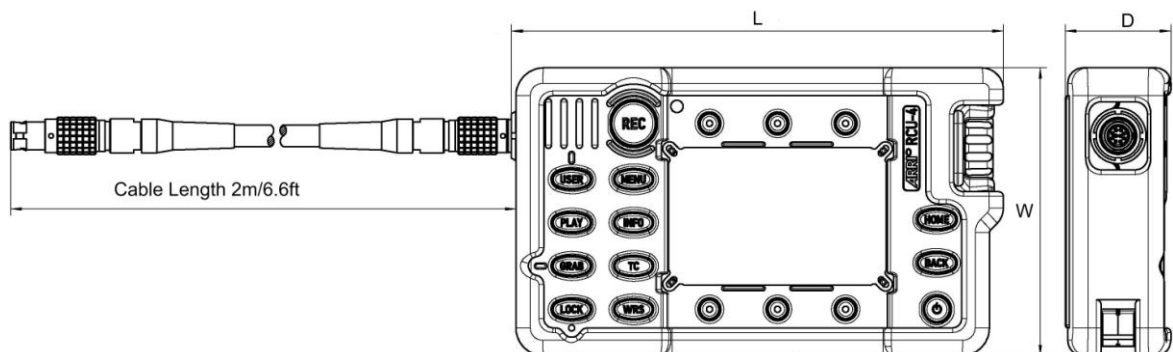
- Mounting:

On the back of the RCU-4 is a 3/8-16 threaded mounting point with location pin holes. You can use the following arms to mount the RCU-4 to the camera:

Type	Length	Order number
UMA-120	Univ. Mounting Arm 120mm length	K2.65020.0
UMA-240	Univ. Mounting Arm 240mm length	K2.41100.0

- Dimensions (values in brackets including cover):

Length:	159(163)mm	6.26(6.42)in
Width:	87,5(93)mm	3.45(3.66)in
Depth:	31,5(34,5)mm	1.24(1.36)in
Weight w/o cable:	406(480)g	14.3(17)oz



For information on how to control the camera, please refer to the current ARRI ALEXA User Manual, which can be downloaded from the ARRI website: www.arri.com

