

Hi-5 Hand Unit Hi-5 SX Hand Unit

OPERATING MANUAL

September 2024 • 1.0 • English

D4510008682



Disclaimer

Before using the product, be sure to read and understand all respective instructions.

The product is available for commercial customers only.

For product specification changes since this document 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.

The information given in this document is subject to change without notice.

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Original version.

Initial Language

The initial language of this operating manual is English. Operating manuals in other languages are translations from English.

In the event of conflict between the respective languages (i.e. if any translation(s) of present document has/have been prepared for convenience or any other purpose), with regards to the meaning or interpretation of a word or an instruction etc., the contents and provisions of the English language version shall prevail.

For Further Assistance

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1 About this Document

This operating manual is aimed at everyone involved in using the device. It provides directions on how to operate it safely and as intended. To ensure safe and correct use, all users must read the operating manual before using the device for the first time.

This operating manual is an essential part of the device. It must be easily accessible and in close proximity to the device so that users can use it as a reference anytime.

The separate user manual contains more detailed information about the features and functionalities of the device. Please visit the website www.arri.com to download the user manual.

Keep the operating manual, the user manual and all other operating and assembly instructions belonging to the device in a safe place for future reference and possible subsequent owners.

Document Revision History

Document ID: D45 1000 8682

Version	Release	Date	Note
1.0	F08353	September 2024	First Release

1.1 Product Information Resources

The ARRI documentation portal provides important documents on the product for free download.

Please enter the following searchkeys in the search bar to retrieve the documents for the product:

Hi-5 hand unit, Hi-5 SX hand unit, K2.0037280

[ARRI documentation portal](#)



For more details about the product, please refer to the ARRI website at:

[Hi-5 product page](#)



1.2 How to use this Manual

All directions are given from an operators point of view. For example, device right side refers to the right side of the device when standing behind the device and operating it in a normal fashion.

Connectors are written in all capital letters, for example "USB connector".

Buttons are written in italic typeface capital letters, for example "*PLAY button*".

Menu paths are written in italic typeface, with menu and home in capital letters, for example "*MENU > Display Orientation > Normal*".

2 About this Product

2.1 Introduction

Hi-5



The ARRI Hi-5 hand unit provides reliable wireless camera and multi-axis lens control in demanding situations on set. Weatherproof and solidly built, it features an exceptional radio link range and unique, swappable radio modules for different territories and shooting challenges.

- Hi-performance: strong radio signal over long distances
- Hi-versatility: swappable radio modules for different locations
- Hi-speed: fast and efficient on-set ecosystem
- Hi-reliability: robust, weatherproof, long battery life
- Hi-tech: future-proof hardware and software architecture

Hi-5 SX



The Hi-5 SX hand unit joins the three-axis Hi-5 at the forefront of wireless camera and lens control technology. Ready to perform a variety of single-axis tasks on set, the Hi-5 SX can also be easily upgraded to higher functionality via optional software licenses. Weather-proof and exceptionally hard-wearing, it brings ARRI dependability to the control of almost any lens on any camera.

2.2 Intended Use

The Hi-5 hand unit is a wireless camera and multi-axis lens control system.

The Hi-5 SX hand unit is a wireless camera and single-axis lens control system.



NOTICE

All versions of the Hi-5 & Hi-5 SX hand unit are intended exclusively for professional use. It must be used only by skilled personnel. Read and understand the operating manual and the user manual before use.

Use the product only for the purpose described in this document. Always follow the safety instructions and system requirements for all equipment involved. ARRI assumes no liability for damages or changes that are caused by improper use. You are not allowed to modify the device.

2.3 Identification

The Hi-5 & Hi-5 SX hand unit serial number is located on the product label on the back of the hand unit.



The serial number consists of the last 5 digits of the product number K2.0037280-12345 (here 63050).

2.4 Environmental Conditions

The Hi-5 & Hi-5 SX hand unit should only be used and stored under certain environmental conditions.

Check the following conditions before commissioning and operation:

Supply Voltage	10.5 - 34 V DC (LBUS) 7.4 V (battery)
Permissible Operating Temperature	-4° F to +122° F / -20° C to +50° C
Permissible Storage Temperature	-4° F to +122° F / -20° C to +50° C
Permissible Humidity	0 - 95% RH from -4° F to +113° F / -20° C to +45° C

2.5 Technical Data

Weight	1,82 lbs / 0,83 kg (Hi-5 body) 2,07 lbs / 0,94 kg (Hi-5 body with battery) 2,18 lbs / 0,99 kg (Hi-5 body with battery and RF-EMIP or RF-2400) 2,22 lbs / 1,01 kg (Hi-5 body with battery and RF-900)
Interfaces	1x LBUS (4pin Lemo) for lens motors, daisy chainable; supports LBUS and LCS protocol 1x SERIAL (4pin Lemo) for distance measuring accessories 1x ARRI radio module interface 1x USB-A for software updates, exchange of lens files and user setup files 1x USB-C for software updates, exchange lens files and user setup files, external power supply
Permissible Input Voltage	10.5 - 34 V DC
Power Consumption (Power consumption with full display/LED brightness and charged capacitor)	222 mA @ 7.4 V (without radio module) typ. 270 mA @ 7.4 V (with RF-EMIP radio module) typ. 370 mA @ 7.4 V (with RF-2400 radio module) @ 100 mW: typ. 330 mA @ 7.4 V (with RF-900 radio module) @ 1 W: typ. 480 mA @ 7.4 V (with RF-900 radio module)
Dimensions (L x W x H)	4.29 x 4.09 x 5.35"/ 109 x 104 x 136 mm (Hi-5 body) 4.29 x 4.09 x 6.22"/ 109 x 104 x 158 mm (Hi-5 body with RF-EMIP or RF-2400) 4.29 x 4.09 x 11.57"/ 109 x 104 x 294 mm (Hi-5 body with RF-900)

2.6 Dimensional Drawings

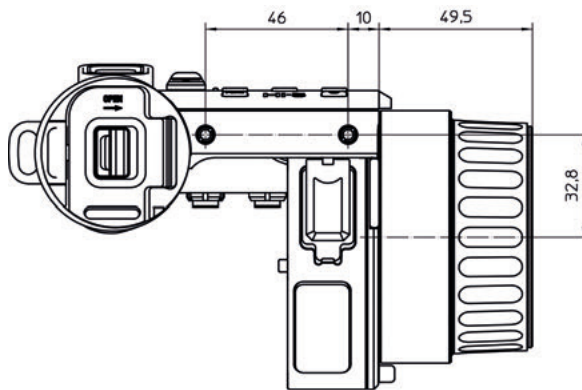


Illustration 1: Hi-5 Bottom View

X

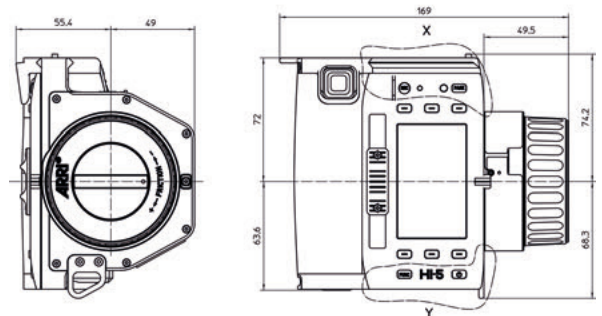


Illustration 2: Hi-5 Front View

Y

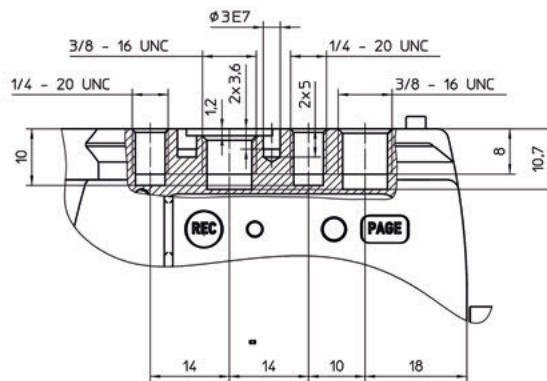


Illustration 3: Hi-5 Front View Detail X

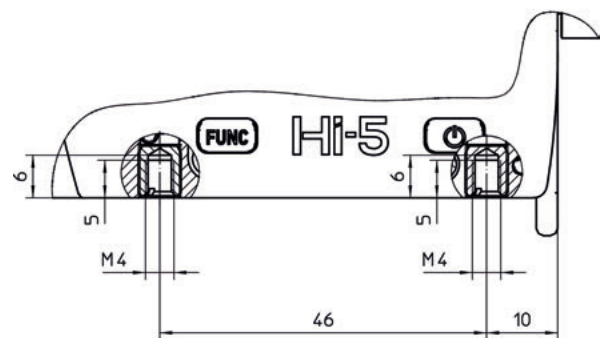


Illustration 4: Hi-5 Front View Detail Y

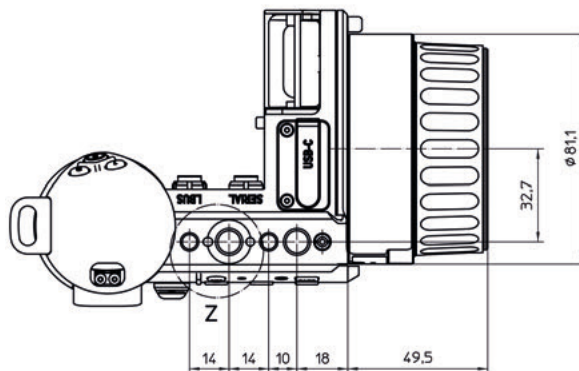


Illustration 5: Hi-5 Top View

Z
2:1

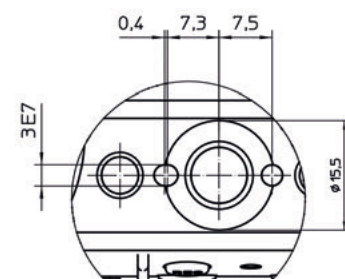


Illustration 6: Hi-5 Top View Detail Z

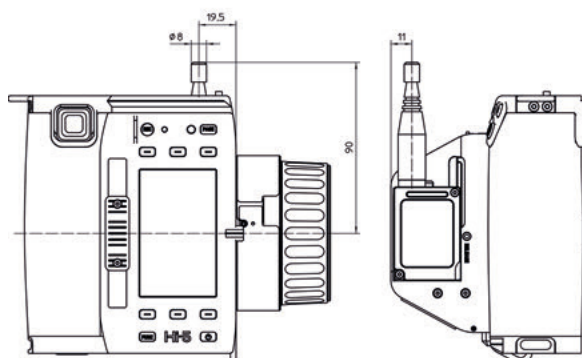


Illustration 7: Hi-5 with RF-EMIP Antenna

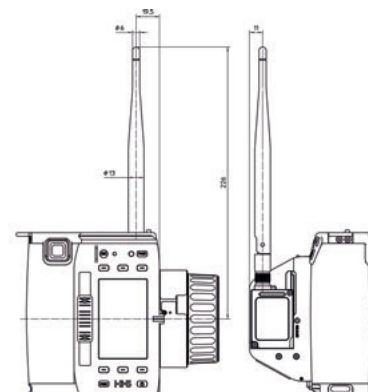


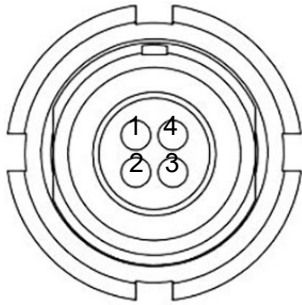
Illustration 8: Hi-5 with RF-900 Antenna

2.7 Pinouts and USB-C Interface

Pinouts

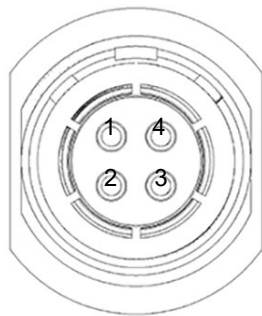
The Hi-5 & Hi-5 SX hand unit contains one LBUS connectors (Lemo 4 pin) and one SERIAL connector (Lemo 4 pin).

LBUS Connector



- 1 GND
- 2 CAN-L
- 3 V-BAT
- 4 CAN-H

SERIAL Connector



- 1 RX
- 2 VCC
- 3 TX
- 4 GND

USB-C Interface



NOTICE

Improper Handling of USB-A Device

Risk of overloading the Hi-5 & Hi-5 SX hand unit.

- ▶ Keep the USB-A device as empty as possible besides your update file.
- ▶ Place the update files either in the root folder or under "ARRI/ECS/...".
- ▶ The USB-A device formatting must be FAT32.



NOTICE

Improper Handling of USB-C Device

Risk of overloading the Hi-5 & Hi-5 SX hand unit.

- ▶ Keep the USB-C device as empty as possible besides your update file.
- ▶ Place the update files either in the root folder or under "ARRI/ECS/...".
- ▶ The USB-C device formatting must be FAT32.

2.8 Scope of Delivery and Warranty

Warranty

For scope of warranty, please ask your local ARRI Service Partner. ARRI is not liable for consequences from inadequate shipment, improper use or use of third-party products.



NOTICE

The packaging consists of recyclable materials. For the sake of the environment, dispose the packaging material at a suitable disposal site. Always store, ship and dispose according to local regulations. ARRI is not liable for consequences from inadequate storage, shipment or disposal.

On delivery, please check if package and content are intact. Never accept a damaged or incomplete delivery.

Delivery

A complete Hi-5 Body Kit KK.0039973 includes:

- 1x K2.0037280 Hi-5
- 1x K2.0039838 Bluetooth Dongle
- 1x K2.0037463 Custom Smart Ring
- 1x Original packaging

A complete Hi-5 SX Body Kit KK.0051704 includes:

- 1x K2.0037280 Hi-5
- 1x K2.0039838 Bluetooth Dongle
- 1x K2.0037463 Custom Smart Ring
- 1x K4.0042707 Hi-5 Force-Pad Cover Black
- 1x Original packaging

2.9 Certifications and Safety Standards

EU Declaration of Conformity



Brand Name: ARRI
Product Description: Hand Unit
Hi-5

The product conforms to the specifications of the following European directives:

- Directive 2014/30/EU of the European Parliament and the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility
- Directive 2011/65/EU of the European Parliament and the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

The compliance with the requirements of the European Directives was proved by the application of the following standards:

Essential requirements regarding No 1

- EN 55032:2015; EN 55035:2017;

Essential requirements regarding No 2

- EN 50581:2012

The manufacturer bears sole responsibility for issuing this declaration of conformity.

FCC Class A Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment

Korean Declaration of Conformity



Company Name: Arnold & Richter Cine Technik GmbH & Co Betriebs KG
Equipment Name: Hi-5 Hand Unit
Model Name: Hi-5 Hand Unit
Manufacturer: ARRI Cine + Video Geräte Ges.m.b.H./Austria
R-REM-ARg-Hi-5-Hand-Unit

3 Safety Instructions

This safety information is in addition to the 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 device. Retain all safety and operating instructions for future reference. Always follow the instructions in this and all documents supplied with the device to avoid injury to yourself or others and damage to the device or other objects.

Assembly and operation should only be carried out by trained staff familiar with the device. Only use the tools, materials and procedures recommended in this document. For the correct use of other equipment, see the manufacturer's instructions.

These instructions use safety instructions, warning symbols and signal words to draw your attention to different levels of risk:



DANGER

DANGER indicates an imminent danger. If not avoided, death or serious injury will result.

Always follow the recommended measures to avoid this hazardous situation.



WARNING

WARNING indicates a possibly imminent danger. If not avoided death or serious injury may result.

Always follow the recommended measures to avoid this potentially hazardous situation.



CAUTION

CAUTION indicates a potentially imminent danger. If not avoided, slight or minor injuries may result.

Always follow the recommended measures to avoid this potentially hazardous situation.



NOTICE

NOTICE indicates a potentially harmful situation. If not avoided, the equipment or something in its surrounding may be damaged.

Always follow the recommended measures to avoid this situation.

HINT

Not relevant to safety, **HINT** provides additional information to clarify or simplify a procedure.

Warning Symbols and Product Labels



General warning sign



Warning of electrical voltage



Warning of hot surfaces



Warning of sharp element



Warning of the risk of crushing



Warning of obstacles on the ground



Please read all instructions carefully before using the product for the first time.



Direct Current symbol found on electronics requiring or producing DC power.

General Safety Instructions



DANGER

Risk of Electric Shock and Fire!

Risk of short-circuits and back currents to power supplies / batteries.

- ▶ Before use, read and follow all relevant instructions.
- ▶ Use solely and exclusively as described in the instructions.
- ▶ Always use original ARRI / cmotion LBUS cables to external power sources (D-Tap, XLR). ARRI/cmotion LBUS cables to external power sources provide a protection circuit to prevent back currents to power supplies/batteries.
- ▶ Do not open the device.
- ▶ Do not insert objects into the device.



WARNING

Operation of the Hi-5 & Hi-5 SX hand unit in Case of Obvious Damage

Risk of electric shock and fire hazard caused by short circuit.

- ▶ Never use the device if electrical lines or housing are visibly damaged.
- ▶ Only use the type of power source indicated in the manual.
- ▶ Always grip the power plug to unplug the power cable.
- ▶ Do not lay cables over sharp edges (e.g. sheet metal, profile or other cut edges). Damaged cables can cause electric shock, short circuit or fire.
- ▶ Do not remove or deactivate any safety measures from the device (incl. warning stickers or paint marked screws).
- ▶ Do not try to repair the device. Repairs may only be carried out by an authorized ARRI service center.



WARNING

Falling System Parts

Do not built up or assemble the Hi-5 & Hi-5 SX hand unit the wrong way. It can fall down and cause serious injuries and damage to the device or property.

- ▶ Installation and operation must only be carried out by approved persons who know the device. Obey the accident prevention regulations.
- ▶ Never put the device on a not stable trolley or hand truck, stand, tripod, bracket, table or any other not stable support device.
- ▶ Always place the device on dedicated support devices.
- ▶ Always use a suitable safety rope when you use the device above floor level (i.e. on cranes).
- ▶ Secure the device and its accessories against falling and tipping over. Obey the general and local safety regulations.



CAUTION

Use of the Hi-5 & Hi-5 SX hand unit or Hi-5 & Hi-5 SX hand unit Accessories in a Humid Environment and with Condensation

When you move the device and the accessories from a cool to a warm location or when the device is used in a damp environment, condensation may form inside the device, and on internal or external electrical connections. Do not operate the device while condensation is present. It bears risk of electric shock and/or fire caused by a short circuit.

- ▶ Do not operate the device and accessories when condensation occurs.
- ▶ When you move the device and accessories from a cool to a warm environment, wait for some time for the components to warm up.
- ▶ Find a warmer storage location to decrease the risk of condensation.

4 Product Overview

Front Side



- 1 REC Button
- 2 REC Status LED
- 3 Ambient Light Sensor
- 4 Page Button
- 5 Upper Screen Buttons
- 6 Smart Ring Interface (Pogo Pins)
- 7 Registration Pin
- 8 Front Knob Index
- 9 Backlight Ring Area
- 10 Control Knob
- 11 Power Button
- 12 FUNC Button
- 13 Lower Screen Buttons
- 14 Slider
- 15 Touch Screen
- 16 Black Force-Pad Hi-5
Blue Force-Pad Hi-5 SX

Right Side

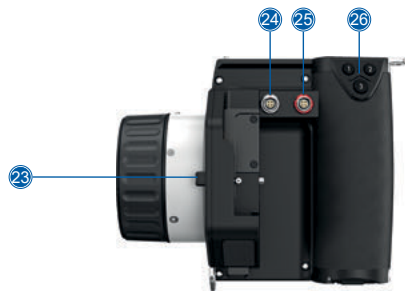


- 17 Friction Adjustment
- 18 Snaphook Eyelet

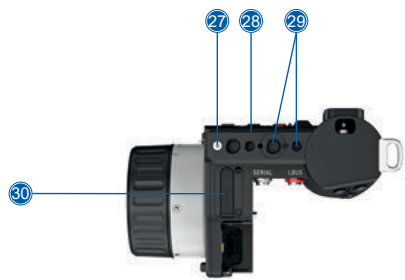
Left Side



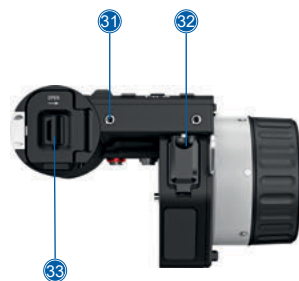
- 19 Snaphook/Hand Strap Eyelet
- 20 Radio Release Button
- 21 Radio Module Interface
- 22 Hand Strap Eyelet

Back Side

- 23 Back Knob Index
- 24 SERIAL Connector
- 25 LBUS Connector
- 26 User Buttons 1-3

Top Side

- 27 Nato-Rail Security Pin
- 28 Nato-Rail
- 29 3/8" – 16 UNC and 1/4" – 20 UNC Mounting Interfaces
- 30 USB-C Interface

Bottom Side

- 31 M4 Mounting Interfaces
- 32 USB-A Interface
- 33 Battery Compartment

5 Mounting and Assembly

5.1 Attachment of Accessories

Attachment Points

The Hi-5 & Hi-5 SX hand unit is equipped with six attachment points, four on the top side and two on the bottom side:

Top



- 3/8" UNC Mounting Point
Use a hexagon socket head key with a wrench size of 3/4/5mm to attach the 3/8" UNC screws. Tighten screws crosswise.
- 1/4" UNC Mounting Point
Use a hexagon socket head key with a wrench size of 3/4/5mm to attach the 1/4" UNC screws. Tighten screws crosswise.

Bottom



- M4 Mounting Interfaces
Use a hexagon socket head key with a wrench size of 3mm to attach the screws. Tighten screws crosswise.

Attaching a Radio Module

1. Push back and hold the radio module release latch.
2. Remove the RF cover or an attached radio module by sliding it upwards.
3. Insert a radio module by fitting it into the radio module slot.
4. Slide the radio module downwards until the release latch pops back in place.
5. The radio module is attached and ready for use.

HINT

You always need the same type of radio module on the camera side!

If you use an RF-2400 or RF-900 radio module with Hi-5 or Hi-5 SX, you need the same on the camera side, attached to the Radio Interface Adapter RIA-1.

If you use the RF-EMIP module, you are compatible with the white-coded radio module built in ARRI cameras and motor controllers.

Attaching Smart Rings

1. Go to *Rings* menu and select *Auto*.
2. Slide the ring onto the knob so that the notch on the ring meets the registration pin on the knob.
3. The ring will be automatically detected by the Hi-5 & Hi-5 SX hand unit.

HINT

Safe Mode

Safe Mode will keep the current smart ring active until a new smart ring is attached. Therefore, removing a smart ring with safe mode enabled will have no effect and there is no risk of unwanted smart ring detachment.

Safe Mode is enabled by default and it is recommended to leave it active.

HINT

Custom Smart Rings must first be created. Go to the *Rings* menu > *Create Custom Ring*.

5.2 Power Supply

The Hi-5 & Hi-5 SX hand unit accepts an input voltage range from DC 10.5 to 34 V DC and can be powered through the LBUS connector, USB-C or a 7.4V battery.

We recommend using ARRI's LBP-3500 Li-Ion batteries for the Hi-5 & Hi-5 SX hand unit.

The LBP-3500 batteries have a capacity of 3,500 mAh. They also contain a chip that communicates the battery capacity to the hand unit in real time. The hand unit accurately displays the remaining capacity in %.

HINT

The Hi-5 & Hi-5 SX hand unit is compatible to the L-Series battery interface and works with respective 3rd-party batteries such as NP-F550 type batteries. However, there is no accurate capacity display with these batteries and the hand unit can shut off abruptly without warning.

Inserting the Battery Pack

1. Open the battery compartment.
2. Insert the ARRI LBP-3500 battery pack.
3. Close the battery compartment.

HINT

Use the LBP Battery Charger to charge the battery before use.

6 Basic Operation Hi-5 & Hi-5 SX

6.1 Switching On and Off

Switch the Device On

Power the Hi-5 & Hi-5 SX hand unit by inserting the ARRI LBP-3500 battery pack and press the *Power* button shortly to switch the hand unit on.

Switch the Device Off

Keep the *Power* button pressed for two seconds to switch the hand unit off.

6.2 Menu Operation

Use the *PAGE* button or touch screen to navigate through the three screen pages: Lens Data Display (LDD), Camera Screen and Menu.

Use the force-pad or the touch screen to navigate within the page.

In *Menu* mode you can also use User Button 3 to select an item and User Button 2 to go one level back. User buttons are on the back of the hand unit.

Lens Data Display (LDD)

The *Lens Data Display (LDD)* is the default screen. It displays the most important parameters of the hand unit and the connected camera. It further shows the current position of the motors attached to the focus, iris and zoom lens rings.

Camera Screen

The *Camera* screen shows the camera status and the name of the active lens file. It also allows changing basic camera parameters.

The *Camera* screen will display whenever a digital ARRI camera is connected. For RED and Sony cameras, an additional license is required.

Menu Screen

The *Menu* contains all parameters for setting up the Hi-5 & Hi-5 SX hand unit as well as connected accessories such as motors and distance measurers.

Setting the Language

The graphical user interface of the Hi-5 & Hi-5 SX is available in English, Chinese, Spanish and German language.

1. Go to *Menu > System > Language*
2. Select your desired language.

Setting Time and Date

The Hi-5 & Hi-5 SX provides log file generation for service purposes. Time and date are essential information for those log files. It is therefore recommended to set time and date before use.

1. Go to *Menu > System > Time + Date > Timezone*
2. Select the time zone you are in.
3. Go to the menu item displaying the date and time and set current date and time.

7 Cleaning and Repair

7.1 Cleaning Instructions



NOTICE

Improper Cleaning Procedure

Risk of damage of surfaces.

- ▶ Before cleaning, remove all accessories and disconnect all cables.
- ▶ Only use the cleaning agents specified in this section.
- ▶ Do not use any strong or aggressive cleaning detergents like Methanol, Acetone, Benzine or acids. These chemicals may dissolve imprinted labels or the paint on the housing and damage highly polished surfaces.
- ▶ During cleaning of the device, always make sure that protective covers are in place.
- ▶ Do not moisten connectors when cleaning the device.
- ▶ Avoid touching any connector pins when cleaning the device.
- ▶ Avoid wiping dry connector pins with a dry cloth, especially if the surface is not clean.
- ▶ Avoid wiping connector pins without air blow dusting first. If particles or connector pins are electrostatically charged, it may improve dusting efficiency to use deionized air.
- ▶ Compressed air should not be used on the housing.

Recommended Cleaning Agents

- Water
- Glass Cleaner
- Isopropyl Alcohol

Area	Cleaning Procedure
Housing	Clean the housing, mechanical and electronic accessories with a soft, lint free cleaning cloth and some water or glass cleaner. Only when really necessary, e.g. to remove residues of camera tape, isopropyl alcohol should be used.
Narrow spaces and gaps	Use a manual air blower, cotton swabs or a soft brush to remove dust particles from narrow spaces, gaps or connectors.

7.2 Repair



WARNING

Repairs carried out by untrained persons

Risk of electric shock and fire hazard caused by short circuit.

- ▶ Do not try to repair the device yourself. Repairs may only be carried out by a certified ARRI service center.

8 Transportation, Storage and Disposal



NOTICE

Improper Packing and Transportation of the Device

Risk of damage to the device.

- ▶ Follow the specified environmental conditions.
- ▶ Only transport the device and accessories in suitable cases.
- ▶ Follow the instructions for transport and storage in this section.

The device can be damaged if not transported and stored properly. Please take note of the following guidelines.

Transportation Guidelines

- Disconnect all cables and power sources from the device.
- Always attach the protective cover to module interfaces when no module is installed on the device.
- Always transport the device in a suitable case.
- Do not expose the device to severe shocks.

Storage Guidelines

Remove any modules and attach the protective cover to the module interface.

Disconnect all cables and power sources from the device.

Always store the device in a suitable case.

Do not store the device outside of the specified ambient temperature range.

Do not store the device in places where it may be subject to extreme temperatures, direct sunlight, high humidity, severe vibration, dust or strong magnetic fields.



NOTICE

You can return the product to the manufacturer Arnold & Richter Cine Technik GmbH & Co. Betriebs KG for disposal.

When you dispose third party accessories, please observe the instructions of the relevant manufacturer.



This product falls within the scope of Directive 2012/19 / EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of June 4, 2012 on waste electrical and electronic equipment (WEEE II).

Accordingly, this product must not be disposed of with household waste. There are the respective country-specific disposal rules that must be observed.

9 ARRI Service Contacts

Please see the current list of service partners at [service contacts](#).



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