

# **TRINITY Live**

OPERATING MANUAL

01/2024

Disclaimer 2

## 1 Disclaimer

Before using the products, be sure to read and understood all respective instructions.

The products are available for commercial customers only.

For product specification changes since this operating 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.

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# 2 Imprint

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#### For Further Assistance

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www.arri.com/en/technical-service

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## 4 About this document

This operating manual is aimed at everyone involved in using the system and 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 system for the first time.

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

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

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

#### **Additional Information**

For useful information in addition to this user manual please have a look at the <u>ARRI Learn & Help</u> section on the ARRI website.

#### Strengthen Your Knowledge and Get Trained

The ARRI Academy courses provide unrivalled insights into the full possibilities of working with ARRI camera systems, lenses, lights and accessories.

Our advanced service training courses are designed to transfer detailed knowledge about how to service and repair all types of ARRI products and give you permanent access to detailed Service instructions, special tools and spare-parts. To learn more, please visit <u>ARRI Academy</u> or contact academy@arri.de.

#### **Further Details**

For further details, refer to the ARRI website at TRINITY web site



For Tech Tips, refer to the ARRI website at https://youtube.com/ user/arrichannel



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# **Document Revision History**

Document ID: D45 10007861

Version	Release	Date	Description
1.0		January 2024	Initial Release

# 5 About this product

#### **Intended Use**

#### **ATTENTION**

TRINITY Live is a camera stabilizer system specifically designed for broadcast use.

All versions of the TRINITY Live are intended exclusively for professional use and may only be used by skilled personnel.

Every user must read and understand the operating instructions and the user manual. Use the product only for the purpose described in this document. Always follow the instructions and system requirements for all equipment involved.

#### **Description**

TRINITY Live is a five-axis, body-mounted camera stabilizer specifically designed for broadcast use.

Any influences from the movement of the user, which can negatively affect the image, are completely eliminated by the TRINITY Live system. In addition, the user can directly influence the position of the camera in space and in relation to the object.

A combination of mechanical and electronic stabilization ensures perfect image quality and the joystick control opens up countless creative possibilities. Automated motion sequences of the TRINITY 2 ensure precise reproduction of tracking shots.

### 5.1 Identification

#### **Product Label**

The Trinity Live serial number is located on the product label on the rear side of the product.



The product number on the label consists of the product ident number (K2.004XXXX) followed by the serial number (here: 1234).

## 5.2 Environmental conditions

The TRINITY Live should only be used and stored under certain environmental conditions. Check the following conditions before commissioning and operation:

Electrical Requirements Input voltage: 10.6 V - 33.6 V DC

12/24 V max. 15 A

Weight 12,5 kg / 27.5 lb

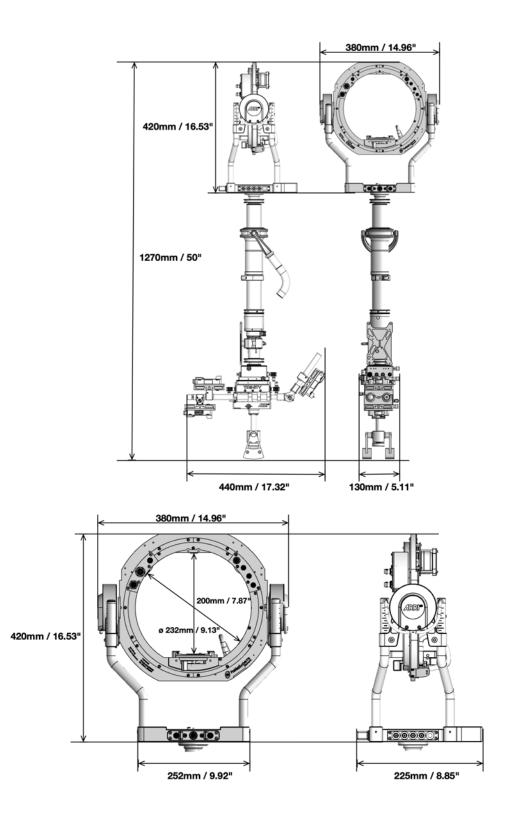
Operating Temperature  $-20^{\circ}$  C to +45° C / -4° F to +113° F Storage Temperature  $-30^{\circ}$  C to +70° C / -22° F to +158° F

Humidity 95% relative humidity max. from -20° C to +45° C / -4° F to +113° F, non condens-

ing

# 5.3 Technical Data

## **Dimensions**



# Specification

**Electrical Requirements** Input voltage: 10.6 V - 33.6 V DC

12/24 V max. 15 A

**Weight** 12,5 kg / 27.5 lb

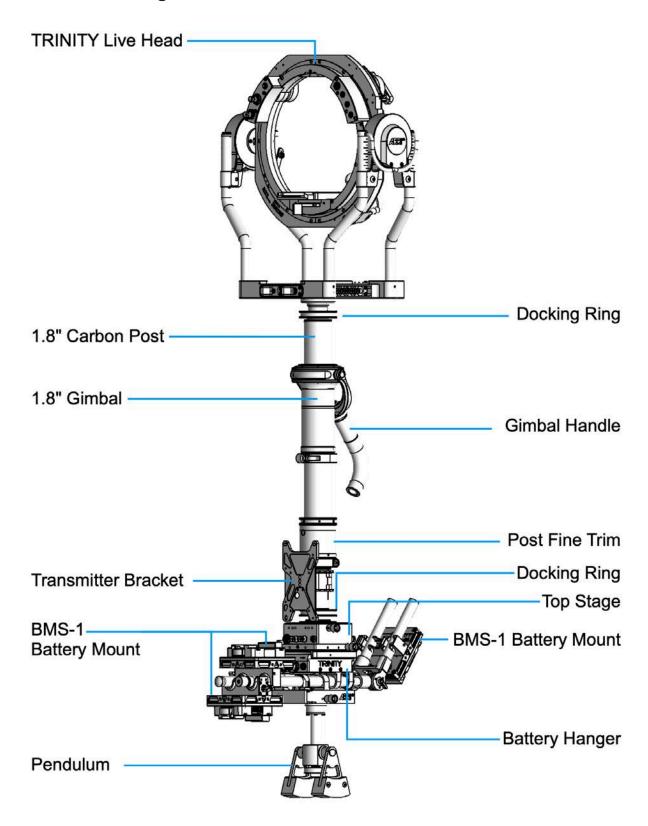
## **TRINITY Live Head Interfaces**

Power Supply LEMO 1B 4 pin connector

12/24 V max. 10 A (24V optional)

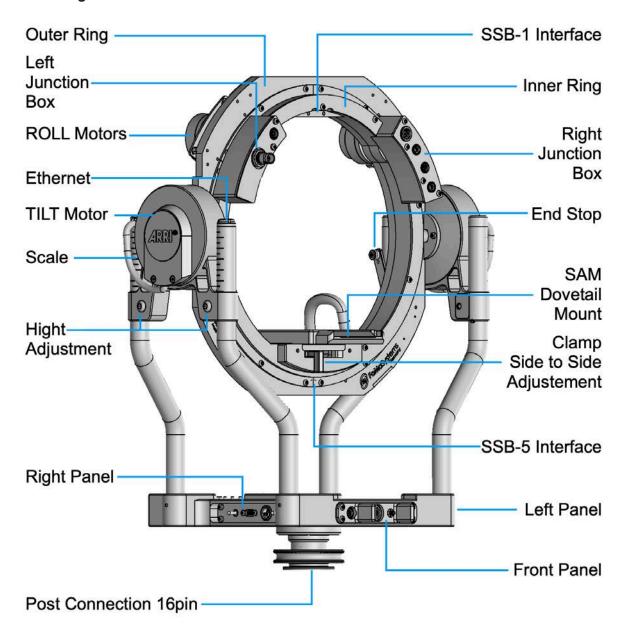
# 5.4 Product Layout

# 5.4.1 TRINITY Live Rig Overview

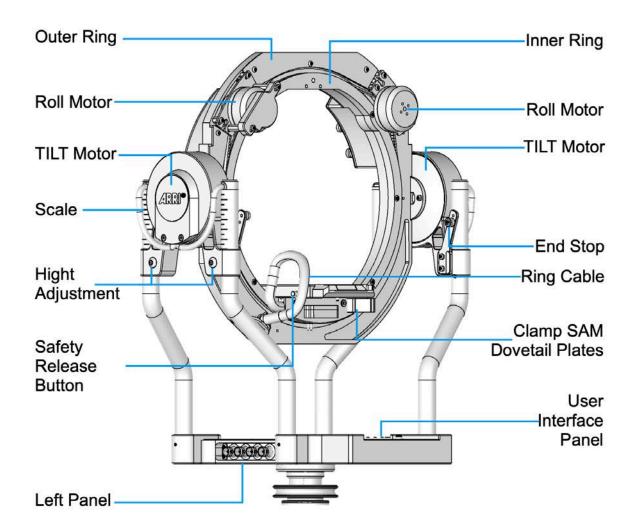


## 5.4.2 TRINITY Live Head Overview

# Front / Right

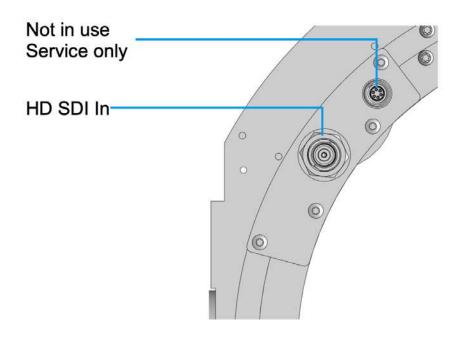


### Back / Left

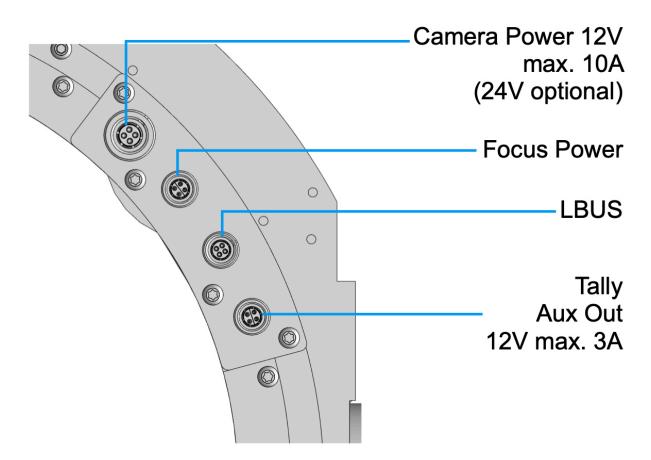


# 5.4.3 TRINITY Live Head Details

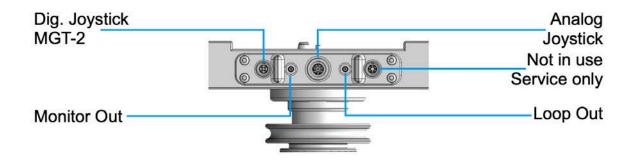
**Left Junction Box** 



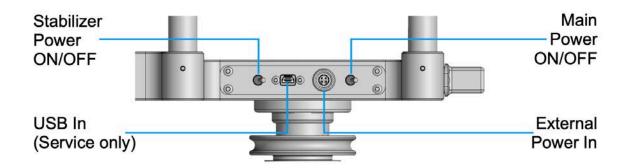
**Right Junction Box** 



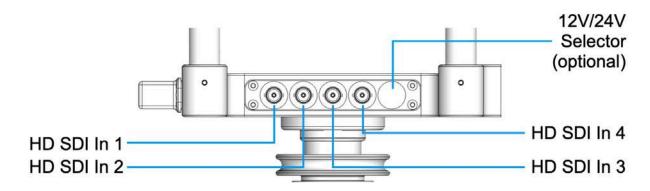
#### **Front Panel Base**



## **Right Panel Base**

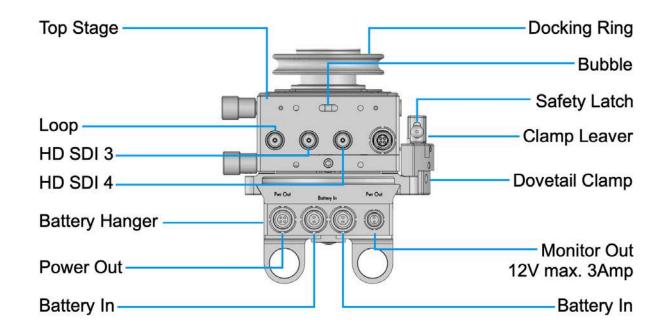


#### **Left Panel Base**

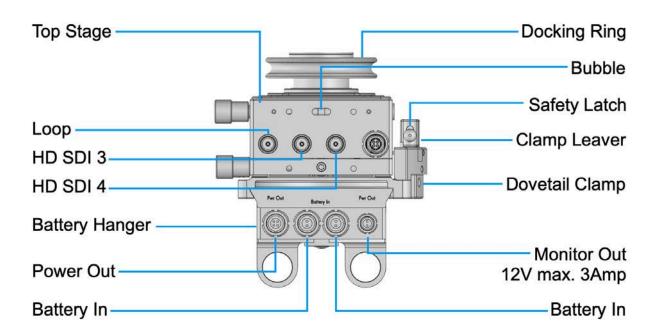


# 5.4.4 TRINITY Live Top Stage / Battery Hanger Overview

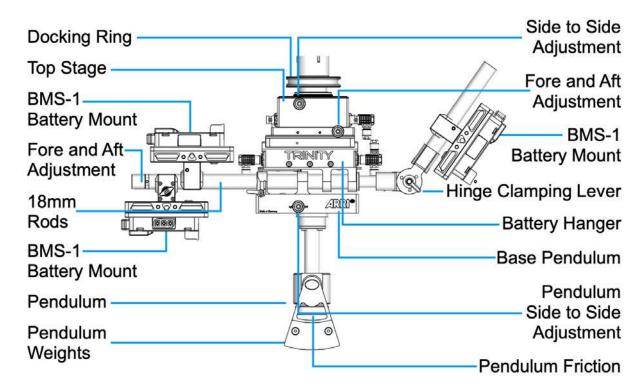
#### **Front Side**



#### **Back Side**



#### **Left Side**



#### **TRINITY Live Interfaces Head**

Interface	Connector	Specification	Remarks
12V / 24V Camera Power	LEMO 1B 4pin	12/24V max. 10A	24V optional
12V Focus Power	LEMO 0S 4pin	12V max. 3A	
LBUS	LEMO 0B 4pin	12V max. 3A	
Aux / Tally	LEMO 0S 3pin	12V max. 3A	
Joystick In (analog)	LEMO 1B 7pin	12V max. 3A	Analog
Joystick In (digital)	LEMO 0B 4pin	12V max. 3A	LBUS
Monitor & Loop	Mini BNC		
4 x 3G Video	BNC		
USB	USB Mini		For programming only
Ext. Power In	LEMO 1S 4pin	12V max. 10A	

#### **TRINITY Live Interfaces Top Stage**

Interface	Connector	Specification	Remarks
12V / 24V Camera Power	LEMO 1B 4pin	12/24V max. 10A	24V optional
Ethernet	LEMO 1B 10pin		Data only
Aux / Tally	LEMO 0S 3pin	12V max. 3A	

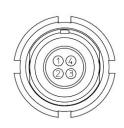
## **TRINITY Live Interfaces Battery Hanger**

Interface	Connector	Specification	Remarks
12V / 24V Camera Power	LEMO 1B 4pin	12/24V max. 10A	24V optional
Battery In	LEMO 1B 2pin	12V max. 1A	
12V Aux Power	LEMO 0B 2pin	12V max. 3A	

# 5.4.5 Pinouts

The TRINITY Live contains the following connectors:

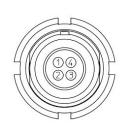
#### **Camera Power Out**



#### Lemo 1B 304

- l 12V plus
- 2 Ground
- 3 Ground
- 4 12V plus

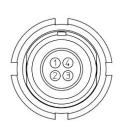
### **Focus Power Out**



### Lemo 0S 304

- 1 12V plus
- 2 NC
- 3 Ground
- 4 NC

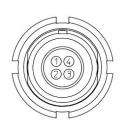
## **Aux Power / Tally Out**



### Lemo 0S 303

- 1 12V plus
- 2 Ground
- 3 Tally

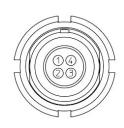
### **Power Out**



### Lemo 0B 304

- 1 Ground
- 2 12V plus

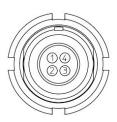
## Ext. Power In



#### Lemo 1S 304

- 1 12V plus
- 2 Ground
- 3 Ground
- 4 12V plus

# Ext / Control



#### Lemo 0B 306

- 1 Can Low ARRI
- 2 Can High ARRI
- 3 Can Low
- 4 Can High
- 5 12V plus
- 6 Ground

# 6 Safety instructions

# 6.1 Safety Conventions and Product Labels

### **Structure of Safety and Warning Messages**

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

#### **A WARNING**

**WARNING** indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury.

Always follow the recommended measures to avoid this hazardous situation.

#### **A** CAUTION

**CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Always follow the recommended measures to avoid this hazardous situation.

#### **ADVICE**

NOTICE signifies a potentially hazardous situation which can result in damage to property.

Always follow the recommended measures to avoid this hazardous situation.

#### **ATTENTION**

Not relevant to safety, Attention 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 hand injuries



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

# 6.2 General Safety Instructions

#### **WARNING**



#### Operating the TRINITY Live in case of obvious damage

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

- ▶ Do not use the system if electrical lines or housing are visibly damaged.
- ▶ 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.
- Do not operate the system in areas with humidity above operating levels or expose it to water or moisture.
- Do not get the system wet.
- ▶ 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 system (incl. warning stickers or paint marked screws).
- Repairs may only be carried out by authorized ARRI service partners.

#### **WARNING**



#### **Falling TRINITY Live components**

If a TRINITY Live component is inadequately built up or assembled, it can fall down and cause serious injuries and damage to the camera accessories or property.

- ▶ Installation and operation may only be carried out by trained personnel who are familiar with the system. Observe accident prevention regulations.
- ▶ Do not place the TRINITY Live on an unstable trolley or hand truck, stand, tripod, bracket, table or any other unstable support device.
- ► Always place the TRINITY Live on dedicated support devices.
- Secure the TRINITY Live against falling and tipping over.
- Obey the general and local safety regulations.

#### **A WARNING**



#### Positioning the TRINITY Live on an inclined or unsafe plane

Risk of injury caused by the TRINITY Live tipping over.

- Observe the accident prevention regulations.
- Put the TRINITY Live on level and stable ground.
- ▶ Do not place the TRINITY Live on an unstable trolley or hand truck, stand, tripod, bracket, table or any other unstable support device.
- Always place the TRINITY Live on dedicated support devices.
- Use only TRINITY Live components approved by ARRI. The use of components not approved by ARRI is at your own risk.
- Obey all relevant safety guidelines.

#### **WARNING**



### Overloading the TRINITY Live by persons or objects

Risk of injury caused by the TRINITY Live tipping over.

- Do not lean on the TRINITY Live.
- ▶ Do not place or hang any unauthorized objects on the TRINITY Live.
- ▶ Use only TRINITY Live components approved by ARRI. The use of components not approved by ARRI is at your own risk.
- ▶ Obey all relevant safety guidelines.

#### **A** CAUTION

#### Using the TRINITY Live in a humid environment and with condensation



When moving TRINITY Live from a cool to a warm location or when the TRINITY Live is used in a damp environment, condensation may form inside the on internal or external electrical connections. Operating the electrical components while condensation is present bears risk of electric shock and/or fire caused by a short circuit.

- ▶ Never operate the TRINITY Live when condensation occurs.
- ▶ After moving the TRINITY Live from a cool to a warm environment, wait for some time for the system to warm up.
- ▶ To reduce the risk of condensation, find a warmer storage location.

#### **A** CAUTION



#### Hot surfaces on electrical TRINITY Live components

During extended operation, high data rates and/or operation at high ambient temperatures, the electrical TRINITY Live components surfaces can get hot. Direct sunlight can result in temperatures above 60° C (140° F).

- ▶ Never cover, obstruct or block the fan in- or outlets during operation.
- ▶ Do not place the TRINITY Live near any heat sources during operation.
- At ambient temperatures above 25° C (77° F), protect the TRINITY Live from direct sunlight.
- Do not touch heated parts of the TRINITY Live after a long film shoot in the sunlight.

#### **A** CAUTION



#### Connected cable on the floor

Risk of injury caused by tripping, falling or slipping over connected cables.

- ▶ Always properly secure cables connected to the TRINITY Live.
- Install cables in a way that they cannot be tripped over.
- ▶ If necessary, use a cable duct or secure the cables with adhesive tape.
- Disconnect the cables from the TRINITY Live before moving.

#### **A** CAUTION



## Unhealthy posture or excessive physical exertion during operation

Improper handling of the TRINITY Live can lead to permanent physical injuries to the human locomotive system.

Ensure an ergonomic posture when operating and carrying the TRINITY Live.

#### **A** CAUTION



#### Radio radiation caused by external radio accessories

May cause physical impairments such as sleep disturbances and stress.

- ▶ Follow the manufacturer's instructions.
- ▶ Use only TRINITY Live components approved by ARRI. The use of components not approved by ARRI is at your own risk.
- ▶ Obey all relevant safety guidelines.

#### **ADVICE**



### Powering TRINITY Live Head, Top and Bottom Stage at the same time

This would cause more than the allowed amount of volts to flow through the TRINITY Live. Risk of damage to the accessories.

Only use the Top Stage **TST-2** in combination with the Battery Hanger Module **BHM-2** for the **internal power supply** of the TRINITY Live Head.

Alternatively, an external power source can be used to power the TRINITY Live head.

▶ DO NOT combine the internal with an external power supply!

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# 7 Wiring the System

### **A** CAUTION



### **Excessive heat and explosion**

May damage persons, objects and property.

- ▶ Use batteries with the same chemistry only.
- ▶ Do not use 24V batteries.

# 7.1 Battery Mounts

The TRINITY Live can be operated with the following battery mounts:

K0.0044359 BMS-1 Upgrade Set, V-Mount, incl. 3 Mounts

K0.0044359 BMS-1 Upgrade Set, Gold-Mount, incl. 3 Mounts

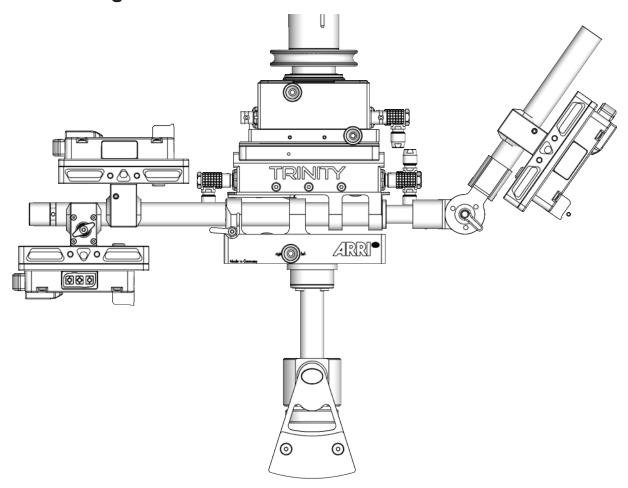
or

K2.0010289 TRINITY Battery Mount / V-Mount

K2.0010288 TRINITY Battery Mount / Gold Mount



# 7.2 Positioning the Batteries



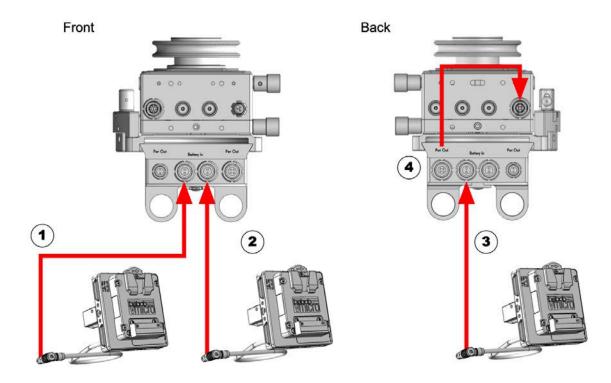
Place two batteries at the front and one battery at the back.

Additional components, like Video Transmitter, shall also be places at at the back.

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# 7.3 Wiring the Battery Hanger / Top Stage

- 1. Connect the Battery Hanger **Power Out** with the Top Stage **Power In** first.
- 2. Connect the batteries with the **Power In** sockets before placing the batteries mounts finally.

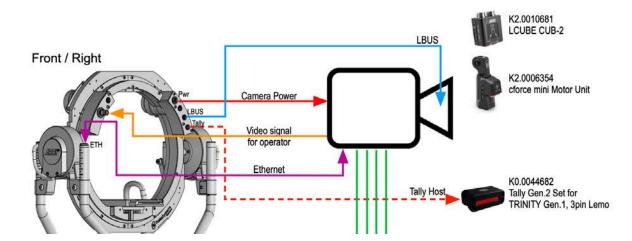


# 7.4 Connecting the Camera

#### **Camera Power Cables**

Use only the appropriate cables, like:

K2.0010470	Cam Power, Cine, 12V, XLR, HiCap	
K2.0010540	Cam Power, Cine, 12V, HiCap, ALEXA Mini	Only with 24V upgrade
K2.0010565	Cam Power, Cine, 12V, HiCap, AMIRA, 90°	Only with 24V upgrade



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# **Video Cables**

Use only the appropriate cables, like:

K2.0010476	HD SDI BNC Cable
K2.0041984	12G HD SDI BNC Cable, 0,63m/25in
K2.0044234	12G HD SDI BNC Cable, 0,84m/33in

## **Ethernet**

Use only the appropriate cables, like:

K2.0044413	Ethernet Cable, Lemo 1B 10pin to 0B 7pin, TRINITY Live	
K2.0044414	Ethernet Adapter Cable Lemo 1B 10pin to Lemo female 7pin, TRINITY Live	
K2.0048526	Ethernet Adapter Cable Lemo 1B 10pin - 10 Pin Cable, TRINITY Live	

# 8 Cleaning, Maintenance and Repair

# 8.1 Cleaning Instructions

#### **ADVICE**



#### **Improper Cleaning Procedure**

Risk of damage of surfaces.

- ▶ Only use the cleaning agents specified in this chapter.
- ▶ Do not use any strong or aggressive cleaning detergents like Methanol, Acetone, Benzine or acids. These chemicals may dissolve the paint on the accessories and damage highly polished surfaces.
- Do not moisten connectors when cleaning.
- ▶ Compressed air must not be used on the electronic accessories.

### **Recommended Cleaning Agents**

- Water
- Glass Cleaner
- Isopropyl Alcohol

### **Cleaning Information**

Before cleaning, remove the camera accessories from the camera and disconnect all cables.

Clean the 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.

# 8.2 Maintenance and Repair

### **WARNING**



### Repairs carried out by Untrained Personnel

Risk of injury and damage.

- Do only carry out maintenance work that is described in this user manual.
- ▶ Do not try to repair the device yourself. Repairs may only be carried out by authorized ARRI service partners.

For repairs and maintenance work on the TRINITY Live System, please contact "ARRI Service".

# 9 Transportation, storage and disposal

# 9.1 Transportation and Storage

#### **ADVICE**



#### **Improper Packing and Transportation**

Risk of damage to the accessories.

- ▶ Unplug all cables during transport.
- ▶ Only transport and storage the accessories in suitable cases.
- ► Follow the specified environmental conditions. Do not store the accessories in places where they may be subject to temperature extremes, direct sunlight, high humidity, severe vibration or strong magnetic fields.

If you have any questions regarding the transport or storage of ARRI products, please contact <u>"ARRI Service"</u>.

# 9.2 Disposal

#### **ATTENTION**

The product can be returned to the manufacturer Arnold & Richter Cine Technik GmbH & Co. Betriebs KG.



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.

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# 10 ARRI Service Contacts

Please see the current list of service partners at

Service contacts



### Arnold & Richter Cine Technik GmbH & Co. Betriebs KG

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