

# Tally System Gen. 2

OPERATING MANUAL

2023-04-19 (V1.01, English)







### 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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#### For Further Assistance

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# **1** 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.

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 operating 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.

For further details, refer to the ARRI website at https://www.arri.com/tally-gen2



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



#### **Document Revision History**

Document ID: D45 1000 7338

Version	Release	Date	Description
1.0	K1196	2022-12-22	Initial Release
1.01	K11219	2023-04-19	UKCA Certification added

## 1.1 Intended Use

#### ATTENTION

The product is an auxiliary system to indicate the active camera in a TV or movie production environment.

All versions of the product are intended exclusively for professional use and may only be used by skilled personnel. Every user should 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.

Only use the product as described in the operating manual. Any other use is considered improper and can result in property damage. ARRI assumes no liability for damages or changes that are caused by improper use.

The entire product may not be changed or converted.

# 2 About this Product

### 2.1 Introduction

#### What is the TALLY System Gen. 2?

In the production of TV studios and OB trucks, the tally system is an auxiliary system that uses the red LED indicator light to tell the director, cameraman, host of the show and technicians that a specific camera is ON AIR at that moment.

It helps actors and the host of the show to face the right camera and ensure the correct line of sight. Whether in the studio or in the OB truck workflow, the tally system is a very important component that allows the planned and rehearsed sequences of camera movements and camera angles to come about during production.

#### How does the TALLY System Gen. 2 work?

The ARRI Tally System Gen. 2 contains a so-called Host module, which normally mounted onto the 15mm rods and is thus located under the lens, and the so-called Client module, which is mounted on top of the operator's monitor.

A Tally trigger signal is required to switch the red LED in the Tally Host module ON and OFF.

By default, this trigger signal is generated by picking up the onboard tally LED on the camera using a photocell. Alternatively, the Tally trigger signal can be tapped directly at the camera using a special cable (3rd party).

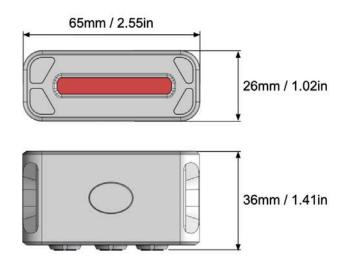
After the Tally Host module has been triggered, i.e. the red LED starts to light up, another trigger signal is sent through the tally-out socket of the Tally Host module further through the rig to the tally Client module, which then simultaneously lights up the red LED in the Tally Client module turns on.

#### What problems does the TALLY System Gen. 2 solve?

Compared to the first generation, the Tally Host module now communicates digitally with the Tally Client module.

In order to achieve a better perception of the Tally Host module, it has been designed to be extremely bright, while the Tally Client module has a slightly softer display so as not to blind or distract the operator.

# 2.2 Dimensional Drawing



#### Weight

Tally Host Module	76 g / 0.17 lb
Tally Client Module	81 g / 0.18 lb

# 2.3 Environmental Conditions

The Tally System Gen. 2 should only be used and stored under certain environmental conditions. Check the following conditions before commissioning and operation:

Electrical Requirements	Input voltage: 28 V DC
Operating Temperature	-20° C to +45° C / -4° F to +113° F
Storage Temperature	-30° C to +70° C / -22° F to +158° F
Humidity	95% relative humidity max, non condensing

# 2.4 Scope of Delivery

#### ATTENTION

The packaging consists of recyclable materials. For the sake of the environment, dispose the packaging material at a suitable disposal site only.

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 delivery.

#### **ARTEMIS 2**

Tally Gen. 2 Set for artemis Gen. 2, 3pin Fischer	K0.0044680	
<ul> <li>Tally System Gen. 2 / Host</li> </ul>	K2.0044490	
<ul> <li>Tally System Gen. 2 / Client</li> </ul>	K2.0044491	
<ul> <li>Tally Sensor Cable, Gen. 1 &amp; 2</li> </ul>	K2.0010482	
2 x Tally Gen. 2 Pwr, TST-2, Fischer 3pin to Lemo 0S 3pin, 0,35m / 13.7in	K2.0044143	
ARTEMIS Gen. 1		
Tally Set for artemis Gen.1, 3pin Lemo	K0.0044685	

•	Tally System Gen.2 / Host	K2.0044490
•	Tally System Gen.2 / Client	K2.0044491
	Tally Sensor Cable, Gen. 1 & 2	K2.0010482
	2 x Tally Gen. 2 Pwr, TST-1, Lemo 0S 3pin to 0S 3pin, 0,35m / 13.7in	K2.0044142

#### **TRINITY 2**

Tally Set for TRINITY Gen.2, 3pin Fischer		
<ul> <li>Tally System Gen.2 / Host</li> </ul>	K2.0044490	
<ul> <li>Tally System Gen.2 / Client</li> </ul>	K2.0044491	
<ul> <li>Tally Sensor Cable, Gen. 1 &amp; 2</li> </ul>	K2.0010482	
2 x Tally Gen. 2 Pwr, TRH-2, Fischer 3pin to Lemo 0S 3pin, 0,75m / 29.5in	K2.0044146	
<ul><li>Tally Gen. 2 Mon Pwr, Lemo 0B 2pin to 0B 5pin, 0,10m / 3.9in</li></ul>	K2.0044374	
<ul> <li>Tally Gen. 2 Mon Pwr, Lemo 0B 2pin to 0B 2pin, 0,10m / 3.9in</li> </ul>	K2.0044147	

#### **TRINITY Gen. 1**

Tally Set for TRINITY Gen.1, 3pin Lemo		
<ul> <li>Tally System Gen.2 / Host</li> </ul>	K2.0044490	
<ul> <li>Tally System Gen.2 / Client</li> </ul>	K2.0044491	
<ul> <li>Tally Sensor Cable, Gen. 1 &amp; 2</li> </ul>	K2.0010482	
<ul><li>Tally Gen. 2 Pwr, TST-1, Lemo 0S 3pin to 0S 3pin, 0,35m / 13.7in</li></ul>	K2.0044142	
<ul> <li>Tally Gen. 2 Mon Pwr, Analog Joystick Lemo 0B 5pin to 0S 3pin, 0,25m / 9.8in</li> </ul>	K2.0044260	
<ul> <li>Tally Gen. 2 Mon Pwr, Lemo 0B 2pin to 0B 5pin, 0,10m / 3.9in</li> </ul>	K2.0044374	
<ul> <li>Tally Gen. 2 Mon Pwr, Lemo 0B 2pin to 0B 2pin, 0,10m / 3.9in</li> </ul>	K2.0044147	

# 2.5 Certifications and Safety Standards

#### **Approval Information**

The TALLY System Gen. 2 is approved for use in countries where the CE or FCC declaration is accepted. That contains the European Union, Canada, and the USA. Additionally, the TALLY System Gen. 2 can be used in many other countries, including UK, China (incl. HK), Australia, New Zealand, UAE, Singapore, Japan, India, Egypt, South Africa, Mexico, Serbia, Thailand, Israel, Philippines, Lebanon, Bangladesh and Indonesia. Additional countries might follow in the near future.

The import and use in other countries may be subject to legal, official or regulatory requirements and regulations. It is the importer's or the user's responsibility, prior to importation or use, to inform themselves of the applicable legal, regulatory and administrative requirements and regulations and to ensure compliance with these requirements and regulations. This includes the applying for and obtaining of all necessary approvals or registrations.

As far as reasonable and legally possible, ARRI will support requests in relation to such applications by providing technical documents or declarations. As an importer or user, you confirm that you are familiar and comply with the legal, regulatory, and administrative requirements and regulations that apply in the countries to which you ship or use the products. You further confirm that you will arrange for any necessary registrations, enrollments, or authorizations that are required in such countries.

You release ARRI from all obligations resulting from any legislative, regulatory, or administrative requirements regarding import or use of the products, except in countries where ARRI has obtained a registration or certification. You agree to indemnify, defend, and hold ARRI harmless from any and all claims, damages, losses, liabilities, costs, and expenses (including reasonable fees of attorneys and other professionals) that may arise out of a demand on ARRI in connection with your obligations mentioned above.

#### **EU Declaration of Conformity**

(

	Brand Name:	ARRI
CE	Product	Accessory for Camera Stabilizer Systems
	Description:	TALLY GEN-2, Host
		TALLY GEN-2, Client

The designated products conform 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 and the Commission Delegated Directive (EU) 2015/863 of March 31, 2015.

Compliance with the requirements of the European directives has been verified by applying the following standards:

- EN 55032:2015 + AC:2016 + A1:2020 + A11:2020
- EN 55035:2017 + A11:2020
- EN IEC 61000-3-2:2014
- EN IEC 61000-3-3:2013
- EN IEC 63000:2018

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

#### **UK Declaration of Conformity**



Brand Name: Product Description: ARRI Accessory for Camera Stabilizer Systems TALLY GEN-2, Host TALLY GEN-2, Client

The designated products conform to the specifications of the following United Kingdom regulations:

- The Electromagnetic Compatibility Regulations 2016
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The compliance with the requirements of the United Kingdom regulations was proved by the application of the following standards:

- EN 55032:2015 + A11:2020; EN 55035:2017 + A11:2020; EN 61000-3-2:2014; EN 61000-3-3:2013
- EN IEC 63000:2018
   The manufacturer bears sole responsibility for issuing this declaration of conformity.

#### **FCC Class A Statement**

**Class A Statement:** 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 to the product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **Industry Canada Compliance Statement**

Complies with CAN ICES-003(A)/NMB-003(A).

# **3** Safety Instructions

# 3.1 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:

#### **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

ADVICE 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



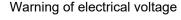
Warning of hot surfaces



Warning of the risk of crushing



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





Warning of hand injuries



Warning of obstacles on the ground



Direct Current symbol found on electronics requiring or producing DC power

# 3.2 General Safety Instructions

#### **WARNING**



Crushing during assembly and disassembly of the system

Risk of injury through crushing.

- Installation and operation may only be carried out by trained personnel who are familiar with the system.
- Use appropriate tools when mounting and dismounting the system components.
- When connecting and disconnecting the system components and cables, there is a risk of crushing fingers and hands.
- Use only accessories approved by ARRI. The use of accessories not approved by ARRI is at your own risk. Please observe all relevant safety guidelines.

#### **A** WARNING



#### Falling system components

Risk of serious injuries and damage to equipment by system components falling down.

- Secure the system components against falling and tipping over. Observe the general and local safety regulations.
- Use only accessories approved by ARRI. The use of accessories not approved by ARRI is at your own risk. Please observe all relevant safety guidelines.

#### **A** CAUTION



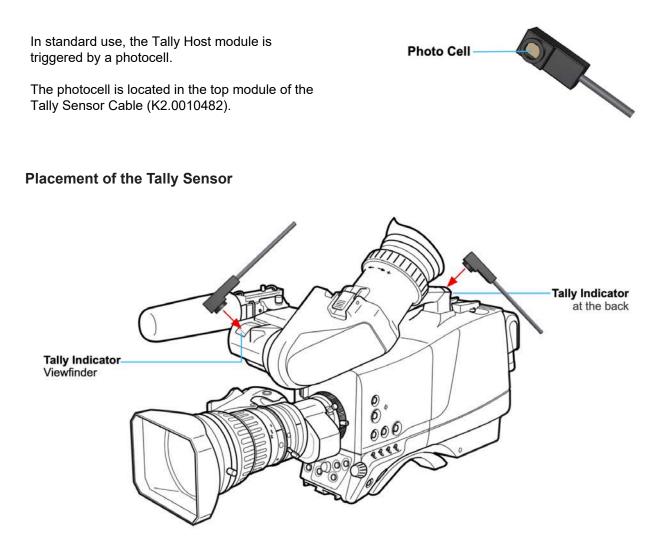
#### Connected cable on the floor

Risk of injury caused by tripping, falling or slipping.

- Always properly secure cables connected to the camera accessories.
- 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 camera accessories before moving.

# 4 Installation and Operation4.1 To Install the Tally Sensor

#### About the Tally Sensor



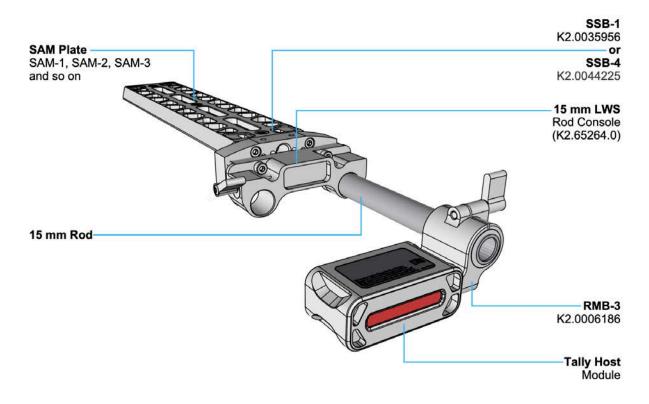
Place the tally sensor cable directly onto one of the available Tally LEDs of the camera or viewfinder.

#### NOTE

As soon as the tally sensor cable is placed on the tally LED, the photocell module and the camera tally LED must be covered completely light-tight. Use so-called black paper tape to cover the photocell module.

# 4.2 To Mount the Tally Host Module

#### **SAM Plates**

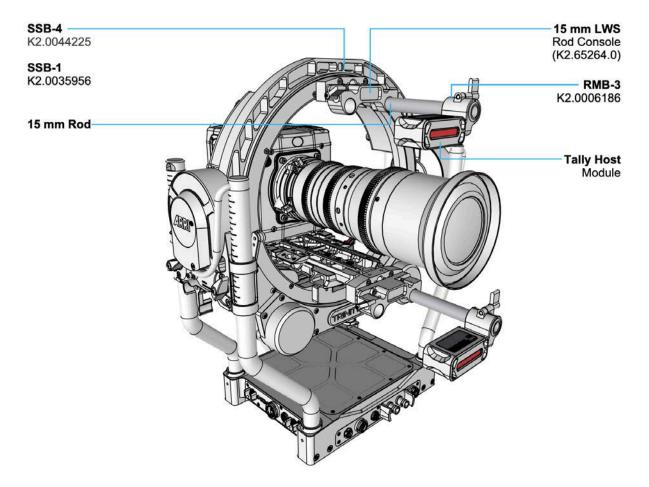


To place the tally host module under the lens on an ARTEMIS 2 or TRINITY (Gen. 1 & 2) combine the components as shown.

#### NOTE

With an artemis Gen. 1, the setup is basically identical. Only another dovetail plate and other lightweight support are used.

#### SSB-1 / SSB-4



To place the tally host module over the lens on a TRINITY 2 or TRINITY Gen. 1 combine the components as shown.

#### NOTE

For **TRINITY 2** you will need **SSB-4** (K2.0044225). For **TRINITY Gen. 1** you will need **SSB-1** (K2.0035956).

# 4.3 To Mount the Tally Client Module

#### **ARTEMIS Monitor**

Use  $3M^{\text{TM}}$  **Dual Lock**<sup>TM</sup> Reclosable Fasteners SJ3550CF to place the Tally Client module on top of the monitor.



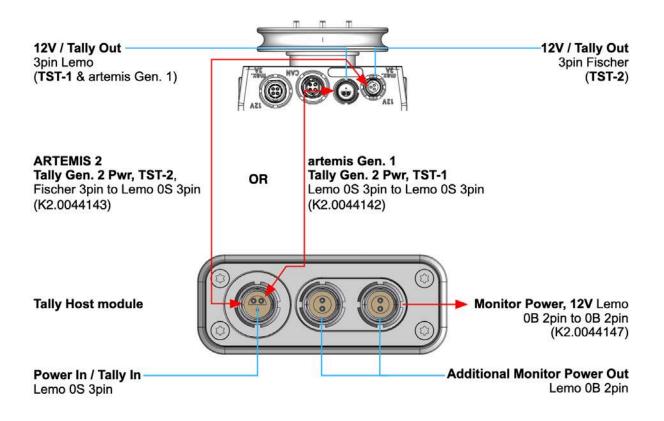
**TRINITY Monitor** 

Use 3M<sup>™</sup> **Dual Lock**<sup>™</sup> Reclosable Fasteners SJ3550CF to place the Tally Client module on top of the monitor.

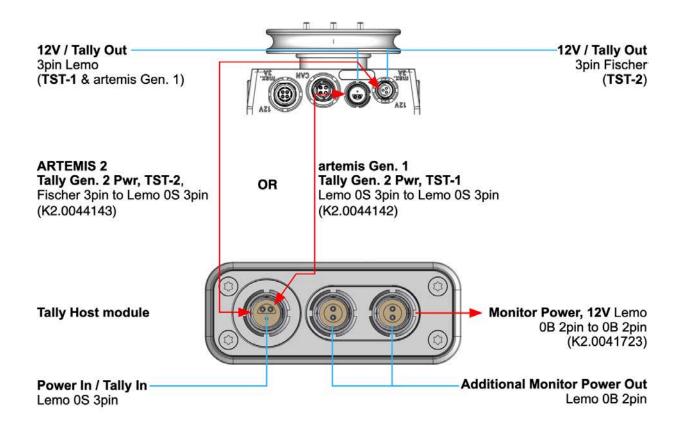


# 4.4 Connection to ARTEMIS

#### Tally Host Module (ARTEMIS 2 & 1)

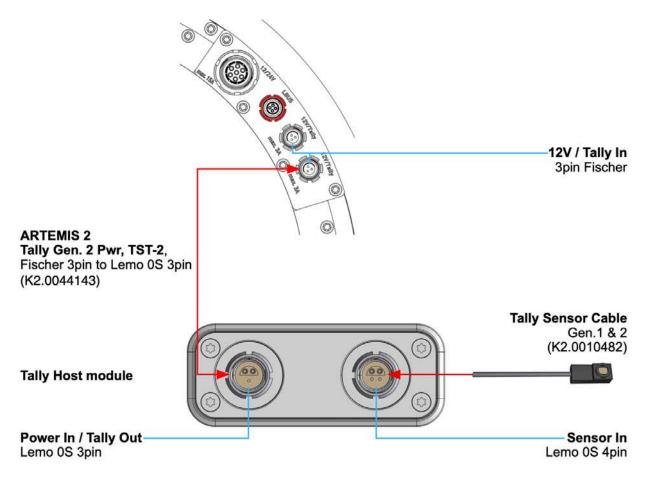


#### Tally Client Module (ARTEMIS 2 & 1)

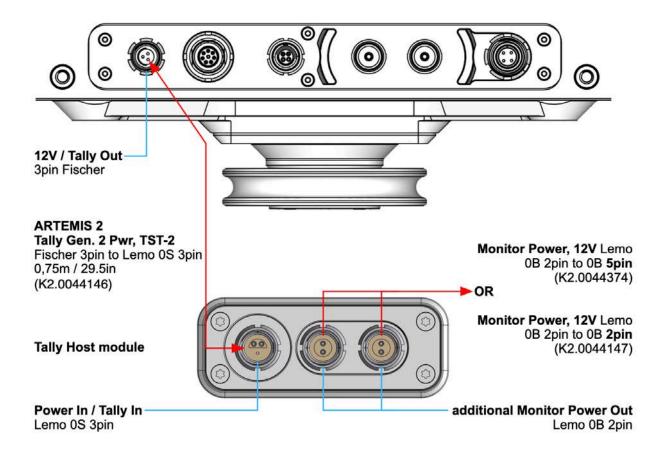


# 4.5 Connection to TRINITY 2

#### Tally Host Module (TRINITY 2)



#### Tally Client Module (TRINITY 2)



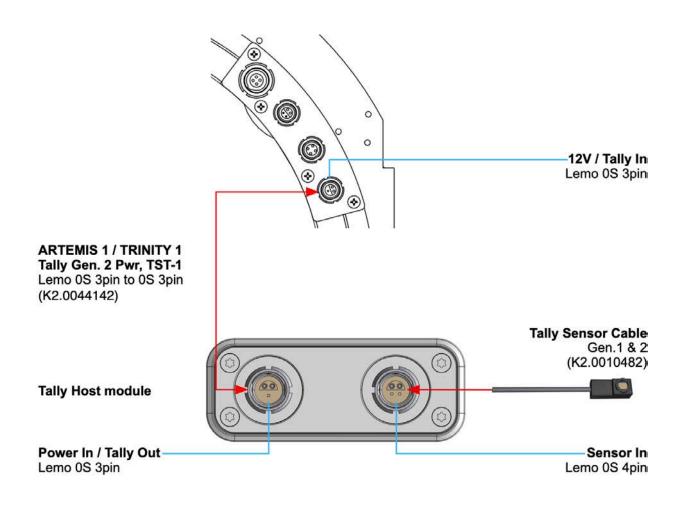
# 4.6 Connection to TRINITY Live or TRINITY Gen. 1

#### **Tally Host Module**

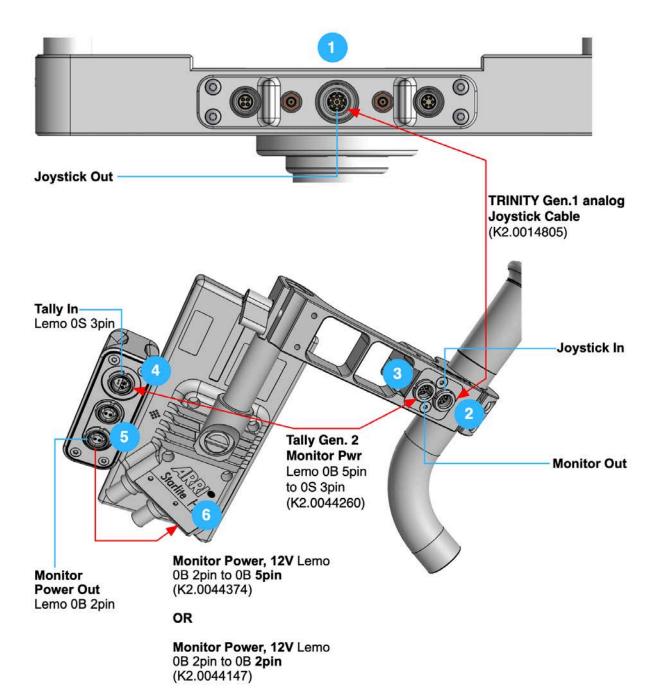
#### ADVICE

Any TRINITY Gen. 1 upgraded to a TRINITY Live system can communicate with the TALLY System Gen. 2.

The classic TRINITY Gen. 1 must be brought to your local ARRI service to be converted to operate with the TALLY System Gen. 2.

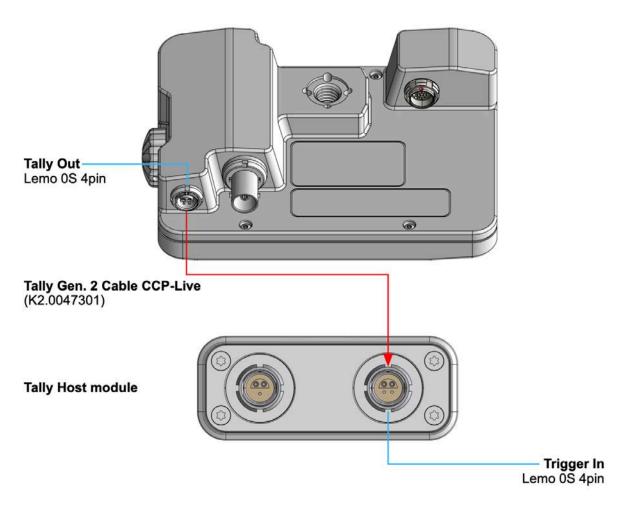


#### **Tally Client Module**



# 4.7 Connection to CCP-Live

#### **Tally Host Module**



# 4.8 Connection to Camera

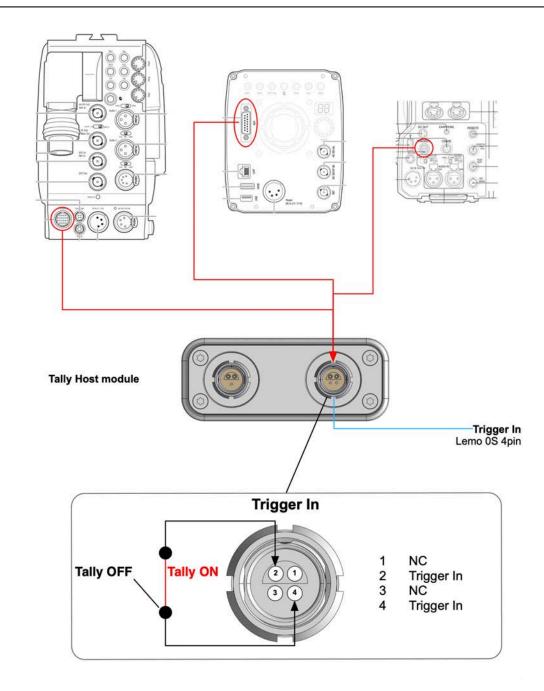
#### **Tally Host Module**

Most professional broadcast cameras offer an interface where the tally signal can be tapped.

Since there are many different sockets with different pin outs, ARRI does not offer these special cables. However, they can be produced by the respective technician in the studio or OBI Van on request.

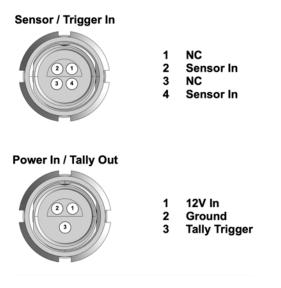
**ATTENTION** 

To activate the ARRI Tally System Gen. 2, the camera's tally signal must be switched to ground.



# 4.9 Pinout

#### Tally Gen. 2 Host Module



#### Interfaces

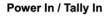
Sensor In

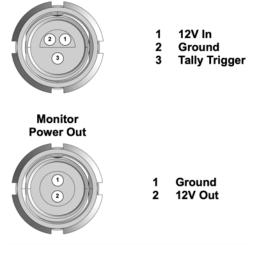
Power In / Tally Out

4pin Lemo / ----

3pin Lemo / 12V max. 300mA

#### Tally Gen. 2 Client Module





#### Interfaces

Power In / Tally In	3pin Lemo / 12V max. 2A
Monitor Power Out 2x	2pin Lemo / 12V max. 2A

# 5 Cleaning and Repair

#### **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.

#### **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.

#### Repair

#### **WARNING**



**Repairs carried out by Untrained Personnel** Risk of injury and damage.

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 TALLY System Gen. 2, please contact the <u>ARRI Service</u>.

# 6 Transportation, Storage and Disposal

#### **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 the <u>ARRI Service</u>.

#### 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.

# 7 ARRI Service Contacts

# Please see the current list of service partners at <u>Service contacts</u>

#### Arnold & Richter Cine Technik

GmbH & Co. Betriebs KG Herbert-Bayer-Str. 10 80807 Munich Germany +49 89 3809 2121 Business hours: Mo. - Fr. 09:00 am - 05:00 pm (CET) service@arri.de

#### ARRI Inc. / West Coast

3700 Vanowen Street CA 91505 Burbank USA +1 818 841 7070 Business hours: Mo. - Fr. 09:00 am- 05:00 pm (PT) service@arri.com

#### ARRI Canada Limited

1200 Aerowood Drive, Unit 29 ON L4W 2S7 Mississauga Canada +1 416 255 3335 Business hours: Mo. - Fr. 08:30 am - 05:00 pm (EDT) service@arri.com

#### ARRI Asia Pte. Ltd.

164 Kallang Way, #03-01 349248 Singapore Singapore +65 6230 9488 Business hours: Mo. - Fr. 9:00 am - 06:00 pm (CST) service@arri.asia



#### ARRI CT Limited / London

2 Highbridge, Oxford Road UB8 1LX Uxbridge United Kingdom +44 1895 457 000 Business hours: Mo. - Thu. 09:00 - 17:30 Fr. 09:00 am - 05:00 pm (GMT) service@arri-ct.com

#### ARRI Inc. / East Coast

617 Route 303 NY 10913 Blauvelt USA +1 845 353 1400 Business hours: Mo. - Fr. 08:00 am - 05:30 pm (EST) service@arri.com

#### **ARRI Australia Pty Ltd**

Suite 2, 12B Julius Ave NSW 2113 North Ryde Australia +61 2 9855 4305 Business hours: Mo. - Fr. 08:00 am - 05:00 pm (AEST) service@arri.com.au

#### ARRI China (Beijing) Co. Ltd.

Chaowai SOHO Tower C, 6/F, 0628/0656 Chaowai Dajie Yi 6 Beijing China +86 10 5900 9680 Business hours: Mo. - Fr. 09:00 am - 06:00 pm (CST) service@arri.cn

#### **ARRI Hong Kong Limited**

41/F One Kowloon, 1 Wang Yuen Street Kowloon Bay Hong Kong China +852 2537 4266 Business hours: Mo. - Fr. 09:00 am - 06:00 pm (CST) service@arri.asia

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