![ARRI logo]

Camera Accessories for ALEXA 35
Audio Extension Module AEM-1

U S E R   M A N U A L

June 2024 (V1.1G, 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 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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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.

Content

About this Document

This user 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 user manual before using the accessories for the first time.

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

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

Document Revision History

Document ID: D45 10006708

Version	Release	Date	Description
1.0	K10950	04.07.2022	Initial Release
1.1	K11244	18.04.2023	Revised Update Procedure
1.1G	K11464	10.06.2024	Release for Update V1.1G

1   About the Products

ATTENTION
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.

The Audio Extension Module AEM-1 enables audio source selection for the ALEXA 35 and serves as a microphone amplifier. In camera playback mode, the audio from the camera is injected into the main audio channels.

In all other camera states, the audio source can be:
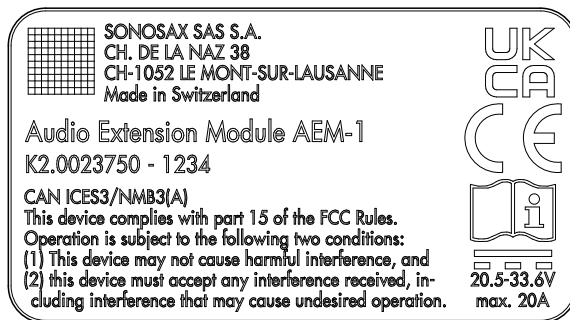
- Main MIC/LINE inputs
- AES input
- Reference tone generator

The Audio Extension Module AEM-1 is compatible with the ALEXA 35.

1.1   Identification

The product number and the serial number of the accessory are located on the product label, the serial number consists of the last 4 digits of the product number (here: 1234).

Audio Extension Module AEM-1

(K2.0023750)

1.2   Environmental Conditions

The ALEXA 35 electronic accessories should only be used and stored under certain environmental conditions. Check the following conditions before commissioning and operation:

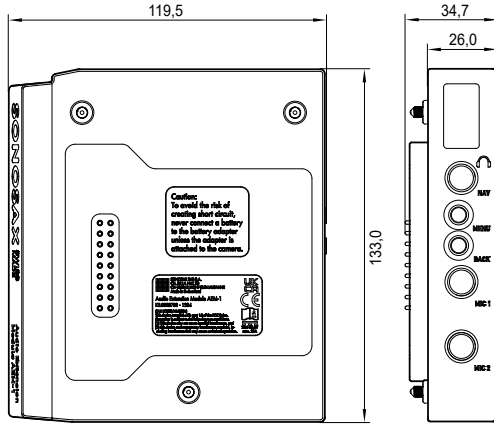|	
Electrical Requirements	Input voltage: 20.5 - 33.6 V DC
Operating Temperature	-20° C to +45° C / -4° F to +113° F
Storage Temperature	-30° C to +70° C / -22° F to +158° F
Humidity	0-95% RH from -20° C to +45° C / -4° F to +113° F, non-condensing

1.3   Technical Data

Audio Extension Module AEM-1

Measurements (HxWxL)	132.50 x 119.45 x 34.72 mm
Weight	504 g / 1,111 lbs
Frequency Response	20 Hz - 90 kHz
Operating Temperature	-20°C - +45°C
Power Outputs	1x 24 V 3-pin Fischer connector supporting start/stop (max. 4.0 A)
	1x 12 V 2-pin Lemo connector (max. 2.0 A)
Maximum Input Level	+18 dBu (with Primary Gain 0 dB)
	-2 dBu (with Primary Gain +20 dB)
Analog Audio Inputs	2x balanced MIC/LINE inputs on TA3 connectors with 48 V phantom power (max. 10 mA) switchable on each channel, +20 dB pre-gain, analog first order low frequency cut filter, dual-ADC, phase reversal, adjustable second order digital low frequency cut filter, gain and limiter
Low Frequency Cut Filter	3rd order hybrid (1st order analog) adjustable Low Frequency Cut filter, 60 to 320 Hz, 20 Hz steps
Dynamic Range	135 dB (with Primary Gain 0 dB)
	129 dB (with Primary Gain +20 dB)
Noise LIN 22-22 kHz	-133 dBFS (with Primary Gain 0 dB)
	-127 dBFS (with Primary Gain +20 dB)
Noise ASA A	-135 dBFS (with Primary Gain 0 dB)
	-129 dBFS (with Primary Gain +20 dB)
Equivalent Input Noise 22-22 kHz 150 Ω	-112 dBu (with Primary Gain 0 dB)
	-126 dBu (with Primary Gain +20 dB)
THD	< 0.001%
Digital Audio Input	1x AES input on TA3 connector with asynchronous sample rate converter (ASRC)
AES3 Input Sampling Rate	6 - 192 kHz
AES3 Output Sampling Rate	48 kHz
ASRC Dynamic Range	139 dB (A-weighted)
Headphone Output	1x stereo mini jack unbalanced output for headphones with full monitoring

1.4 Dimensional Drawings

All measurements given in Millimeters.

Audio Extension Module AEM-1

1.5 Scope of Delivery and Warranty

ATTENTION
The packaging consists of recyclable materials. For the sake of the environment, dispose of 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 delivery.

Warranty

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

1.6 Certification and Safety Standards

Approval Information

The Audio Extension Module AEM-1 is approved for use in countries where the CE or FCC declaration is accepted. That contains the European Union, Canada, Japan and the USA. 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

CE   Brand Name: SONOSAX SAS SA
      Product Description: Audio Extension Module **AEM-1**

The product conforms to the specifications of the following European directives:
- Directive 2014/30/EU EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility
- Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits

Compliance with the requirements of the European directives has been verified by applying the following standards:
- EN 55032:2015
- EN 55035:2017
- IEC 62368-1:2018

UK Declaration of Conformity

UK CA   Brand Name: SONOSAX SAS SA
         Product Description: Audio Extension Module **AEM-1**

The designated products conform to the specifications of the following United Kingdom regulations:
- 1) The Electromagnetic Compatibility Regulations 2016 (SI 2016 No. 1091 as amended by SI 2019 No. 696)
- 2) The Electrical Equipment (Safety) Regulations 2016 (SI 2017 No. 1206 as amended by SI 2019 No. 696)
- 3) The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012 No. 3032 as amended by SI 2020 No. 1647 SI 2021 No. 422 and SI 2019 No. 492)

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
- IEC 62368-1:2014/AC:2015
- EN IEC 63000:2018

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

FCC 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 Statement

CAN ICES-003(A)/NMB-003(A)

2 Safety Instructions

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. Always follow the instructions in this and all documents supplied with the device to avoid injury to yourself or others and damage to the system or other objects.

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

2.1 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.

⚠ 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 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

2.2 General Safety Instructions

> **⚠ WARNING**
>
> **Powering Accessories without Camera Connection**
> Risk of electric shock and fire hazard caused by short circuit.
>
> ▶ Do not power the accessories if not attached to the camera.
> ▶ Remove all power sources before you mount and remove accessories.

> **⚠ WARNING**
>
> **Operation of the Camera System 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.

> **⚠ CAUTION**
>
> **Using the Camera or Camera Accessories in a Humid Environment and with Condensation**
>
> When moving the camera and the camera accessories from a cool to a warm location or when the camera is used in a damp environment, condensation may form inside the camera, on the sensor, and on internal or external electrical connections. Operating the camera while condensation is present bears risk of electric shock and/or fire caused by a short circuit.
>
> ▶ Never operate the camera and camera accessories when condensation occurs.
> ▶ After moving the camera and camera accessories 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.

⚠ CAUTION

Hot Surfaces on Camera Body and Camera Accessories

During extended operation, high data rates and/or operation at high ambient temperatures, the camera's surface and the area around the fan outlet can get hot. Direct sunlight can result in camera housing temperatures above 60° C (140° F).
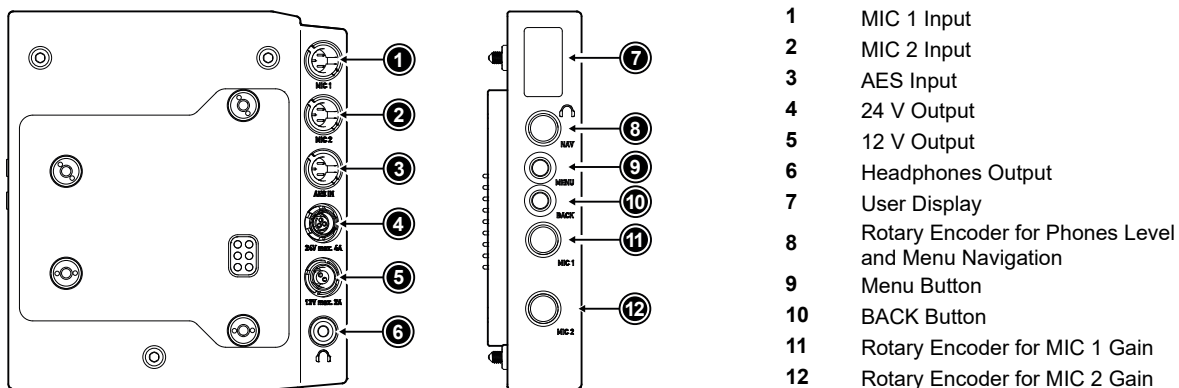
▶   Never cover, obstruct or block the fan in- or outlets while the camera is powered.
▶   Do not place the camera system near any heat sources during operation.
▶   At ambient temperatures above 25° C (77° F), protect the camera and camera accessories from direct sunlight.

⚠ 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 camera and 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 and camera accessories before moving.

3   Overview Audio Extension Module AEM-1

1	MIC 1 Input
2	MIC 2 Input
3	AES Input
4	24 V Output
5	12 V Output
6	Headphones Output
7	User Display
8	Rotary Encoder for Phones Level and Menu Navigation
9	Menu Button
10	BACK Button
11	Rotary Encoder for MIC 1 Gain
12	Rotary Encoder for MIC 2 Gain

A USB port is used for firmware update. It acts as a USB host which will read a file from a USB stick connected to it.

4   Mounting the Accessories

⚠ WARNING
Falling Camera Accessories If the system is inadequately built up or assembled, it can fall down and cause serious injuries and damage to the system 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 system on an unstable trolley or hand truck, stand, tripod, bracket, table or any other unstable support device.
- ▶ Always place the camera on dedicated support devices.
- ▶ Secure the system and its accessories against falling and tipping over. Observe the general and local safety regulations.
- ▶ When using the system on camera cranes, a suitable safety rope must be used.
- ▶ 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.

⚠ CAUTION
Improper Mounting of Lenses and Accessories Mounting the camera on tripods or other support equipment and attachment of accessories like e.g. lenses, electronic and mechanical accessories poses a crushing hazard for fingers and/or hands.

- ▶ Before mounting ARRI accessories or recommended third-party accessories (such as lenses, mechanical accessories, electronic accessories), read the operating instructions provided by the manufacturer.
- ▶ Always use the tools specified by the manufacturer for mounting.

| ATTENTION |
|---|
| The Audio Extension Module AEM-1 is compatible with the ALEXA 35.
Please note that either the Audio Extension Module AEM-1 or the Power Distribution Module PDM-1 can be mounted on the camera. |

Preparation:

- ■ Switch off the camera and unplug any power supply.
- ■ Arrange the ALEXA 35 on a table with its back turned towards you.
- ■ Put the unpacked Audio Extension Module AEM-1 next to the camera.
- ■ Prepare a 3.0mm Allen/hex key.

How to mount Audio Extension Module AEM-1:

The Audio Extension Module AEM-1 attaches to the back of the camera with three captive M4 screws.
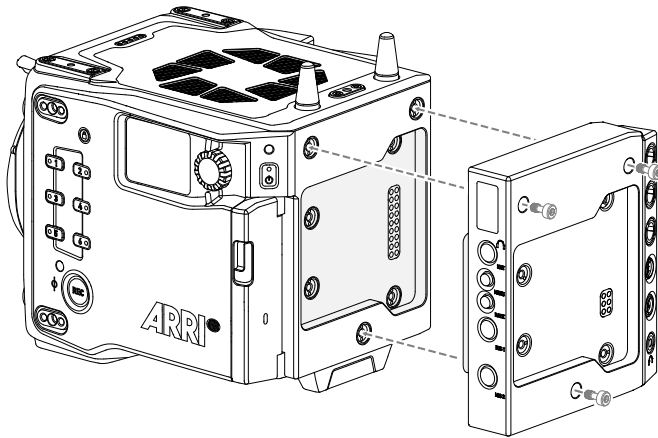
1. Gently place the Audio Extension Module AEM-1 counterpart in the recessed area at the back of the camera.

2. Tighten the three captive M4 screws crosswise with a 3mm Allen key to attach the Audio Extension Module AEM-1 to the camera.

3. Check with your hands if the Audio Extension Module AEM-1 is firmly attached to the camera.

   →The Audio Extension Module AEM-1 is ready for use.

5   Operating

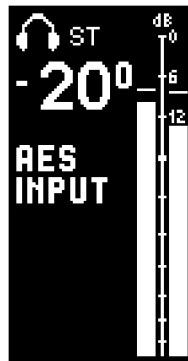| ATTENTION |
|---|
| The AEM-1 automatically saves all your selected settings in the menu. These settings are retained even after the power is turned off.

To ensure that no settings can be lost, you should wait for 10 seconds after you have adjusted a setting, before switching off the AEM-1. |

5.1   Switch on Audio Extension Module AEM-1

The Audio Extension Module AEM-1 is powered from 12V or 24V camera and will boot up as soon as a power supply is applied.

After the boot-process, the home screen appears in the user display. Depending on the selected input source, the home screen looks slightly different:
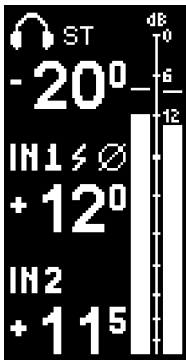
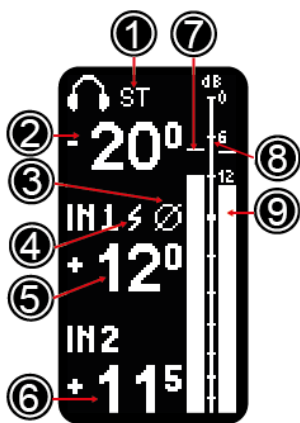**Analog Input**   **Digital Input**   **Camera Source**
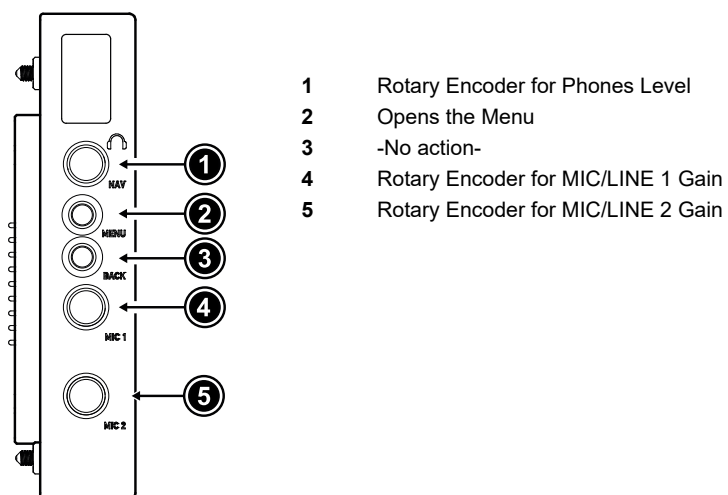

5.2   Home Screen Overview and Navigation

5.2.1   Home Screen Overview

| 1	Monitoring Routing
2	Head Phones level
3	Phase reversal
4	Phantom power
5	Input Gain 1
6	Input Gain 2
7	Peak Hold
8	Reference Level
9	Peak Meters

5.2.2   Home Screen Control Elements

During the Home screen, the control elements on the Audio Extension Module AEM-1 are used as follows:

1	Rotary Encoder for Phones Level
2	Opens the Menu
3	-No action-
4	Rotary Encoder for MIC/LINE 1 Gain
5	Rotary Encoder for MIC/LINE 2 Gain

The three rotary encoder can be moved in and out by pressing them.
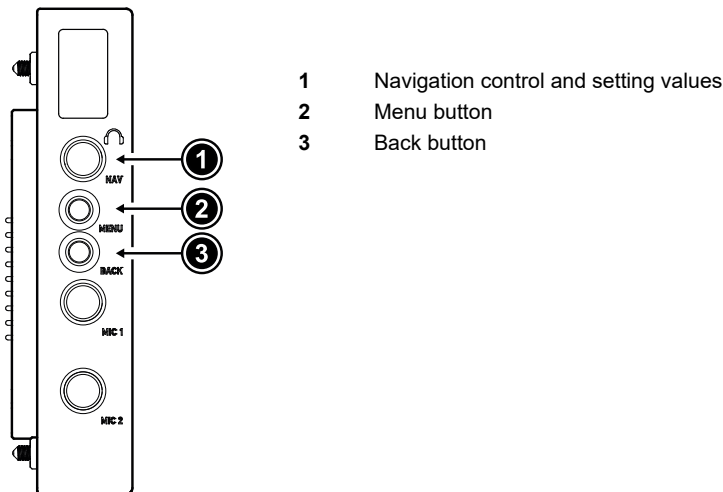
5.3   Menu Overview and Navigation

5.3.1   Menu Overview
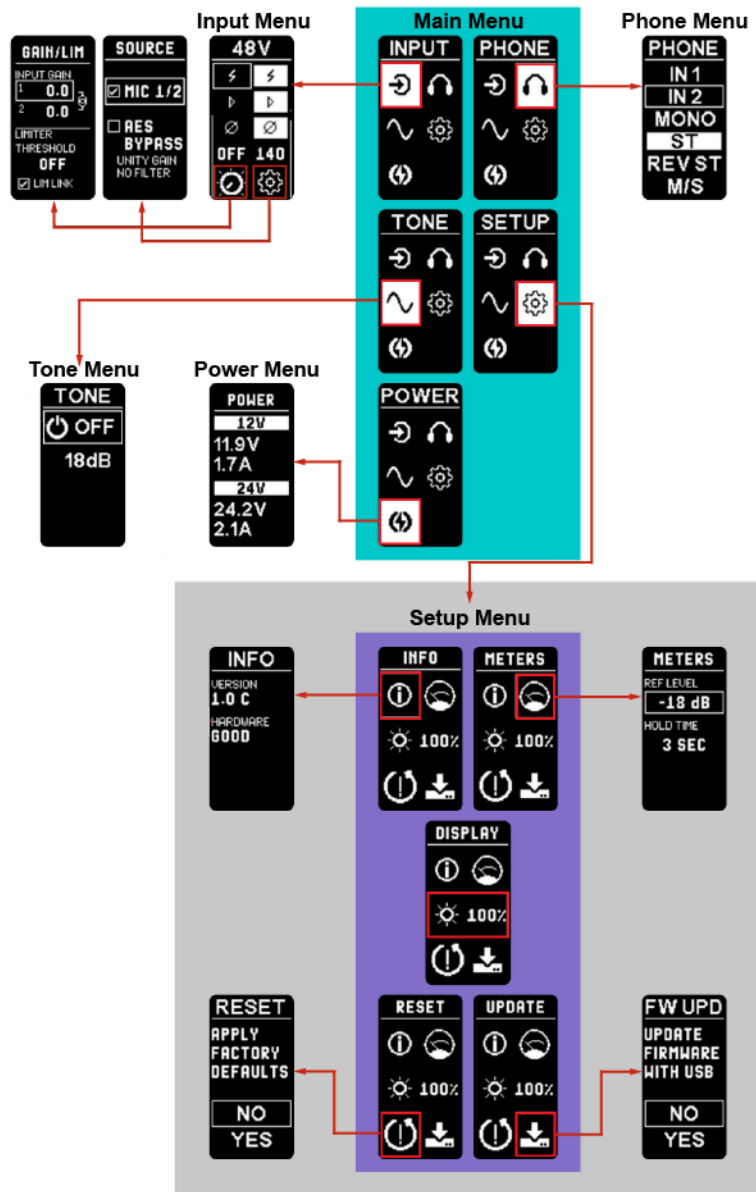
5.3.2   Menu Navigation

Press the **MENU** button on the Audio Extension Module AEM-1 to open the menu.

The following buttons are used within the menu:

1	Navigation control and setting values
2	Menu button
3	Back button

The **Navigation control** allows to switch between different menu items and function controls. With the navigation control you can also adjust values.

To select a menu item or confirm changes, use the **Menu** button.

To cancel a setting procedure or to return to a previous menu, press the **Back** button.

A long press on the **Back** button returns to the home screen.

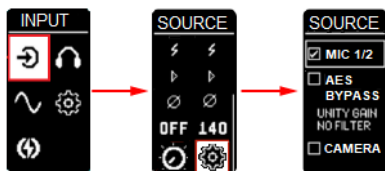## 5.4 Selecting an Input Source

ATTENTION
If you have selected the digital input or camera source, all the settings for the analog inputs in the menu are hidden.

You have three different possibilities for the AEM-1 input source:

Analog Input   2 analog inputs independently configurable

Digital Input   1 input for external devices

Camera Source   When you select the Camera Source, the AEM-1 connects directly to the camera. Thereby you can listen to recorded audio on the camera.

How to select an input source:

1. Open the menu via **Menu** button.

2. Go to *INPUT > SOURCE* .

3. Select an input source.

   → The selected input source is displayed on the Home screen.
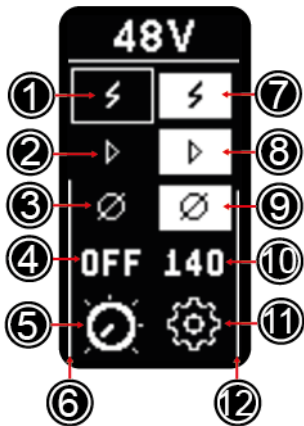
5.5 Analog Input Settings

ATTENTION
As long as another source than analog is selected, the analog settings are all hidden in the input setting menu.

All analog input settings are found in the input settings menu.

► Select *MENU > INPUT*.

This menu configures both the analog MIC 1/2, the AES input and camera source. When using MIC 1/2 inputs, the input menu is built as following:

1	MIC 1 48V phantom power
2	MIC 1 +20dB pre-gain
3	MIC 1 phase reversal
4	MIC1 low frequency cut filter
5	Gain Settings
6	MIC1 meter
7	MIC2 48V phantom power
8	MIC2 +20dB pre-gain
9	MIC2 phase reversal
10	MIC2 low frequency cut filter
11	Inputs Settings (Source Select)
12	MIC2 meter

All icons on the left side concerns the MIC 1 and on the right side MIC 2, except the last two buttons.

The button (5) on the left side opens the Gain settings for MIC 1 and 2. The button (11) on the right allows to choose the input source.
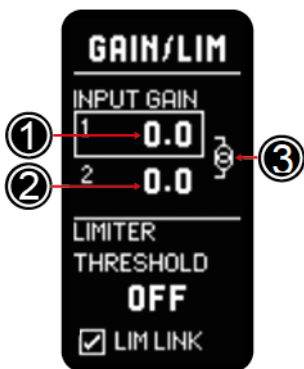
5.5.1 Gain Input

ATTENTION
If you set the connected MIC 1/2 input gains with different values, pay attention to the limits. When an input gain reaches the limit, it will remain at that value, but the other value will continue to change up to the limit.

The gain input settings are in the menu item **GAIN/LIM**.

► Select *MENU > INPUT > GAIN/LIM*.

|	
1	MIC 1 input gain
2	MIC 2 input gain
3	MIC 1/2 gain link

You can set the gain value for MIC 1 and MIC 2 independently or together. To change values together for both MIC inputs, activate the MIC 1/2 gain link.

The connection also works with different values for MIC 1 and MIC 2. The limits are between -24dB and 72dB.

5.5.2   Limiter Threshold

In order to prevent an overload of the analog input devices, a threshold value can be defined. It is possible to set values between 0 and - 30dBFS. The limiter can be disabled by setting the threshold to zero.

► Select *MENU > INPUT > GAIN/LIM*.
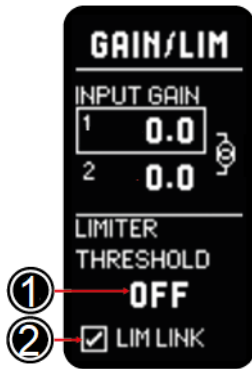
1	Threshold
2	LIM Link on/off

If you activate the LIM link function, both MIC inputs will be reduced, even if only one of them is clipping. If the LIM link function is deactivated, only the MIC input that is clipping is reduced.

5.6   Digital Input Settings

When AES input is selected, the Inputs Settings (=> Source Select) icon is the only one available in the input menu.

► Select *MENU > INPUT*.
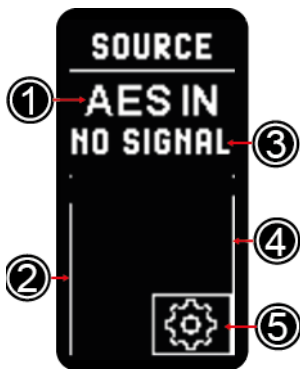
|	
1	AES input in use
2	AES1 meter
3	Input sampling frequency (when locked)
4	AES2 meter
5	Inputs Settings (Source select)

5.7   Headphone Settings

The level of the head phone can be adjusted directly in the home screen via the Rotary Encoder for Phones Level see section "Overview Audio Extension Module AEM-1". You can adjust the level between -60dB and +20dB.

More settings can be adjusted in the menu item **PHONE**:

► Select *MENU > PHONE* .
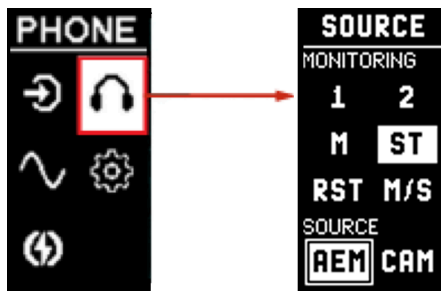
The *PHONE* menu allows the user to select how the two channels will be heard.

The following **Monitoring** options are available:

- **1**: Input IN1 in mono to both ears
- **2**: Input IN2 in mono to both ears
- **M**: Both inputs summed as mono to both ears
- **ST**: Input IN1 to left ear, input IN2 to right ear (stereo)
- **RST**: Input IN2 to left ear, input IN1 to right ear (reversed stereo)
- **M/S**: M+S (IN1 + IN2) to left ear, M-S (IN1 - IN2) to right ear

The following **Source** options are available:

- **AEM**: Audio signals are monitored directly at the input of the AEM-1.
- **CAM**: The audio signals are routed through the camera to the headphone output of the AEM-1. The camera's headphone routing is used so that only the stereo and reverse stereo monitoring options are available for selection.

5.8   Reference Tone Settings

Use the reference tone to further verify connections and to adjust the volume level of all output devices.

All reference tone settings can be adjusted in the **Tone** menu.

The reference tone generates a 1kHz sine wave with adjustable level. When enabled, it overrides the input channels. The level can be adjusted from -30 to 0dB. Default value is -18dB.

5.9   Peak Meters

The peak meters are on the right side of the home screen display.

1	Reference level
2	Overload
3	Peak hold
4	Level curve
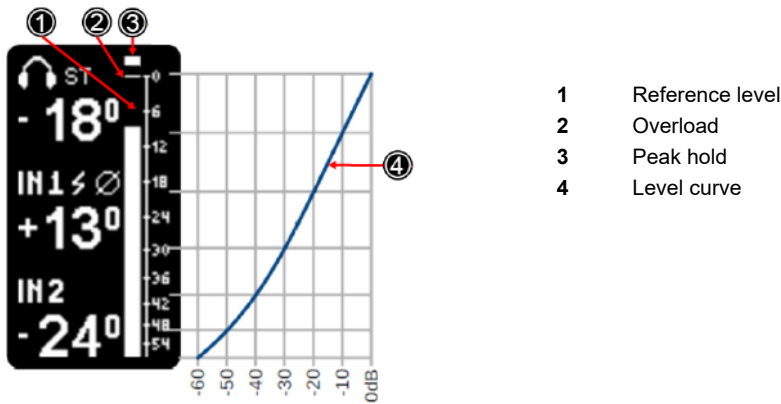
 The peak meters system offers the following features:
- Dual modulometer with a range of 60dB in a level compression curve
- Overload indicators
- User adjustable reference level indicators
- User adjustable peak hold indicators

The reference level and peak hold indicators can be adjusted in the menu item **METERS**.

Adjusting the Reference Level

► Select *MENU > SETUP > METERS*.

The reference level displays a reference mark on the peak meters to help users adjusting the modulation level (the gain) up to that defined reference level.

The range is -30 to 0dB, the default is -18dB. When the reference level is set to 0dB, the reference mark doesn't appear.

Adjusting the Peak Hold Indicator

► Select *MENU > SETUP > METERS*.

The peak hold indicators are displayed in the peak meters as a horizontal bar. It indicates the highest peak measured value for a defined time.

The range is 0 to 30 seconds. When the peak hold indicators are set to 0, the peak hold indicators never appear. Factory default is 3 seconds.

5.10   AEM-1 OLED Brightness

The OLED brightness can be adjusted from 0 to 100%. When set to 0%, the display turns off after 4 seconds of user's inactivity. As soon as an action is detected, the display lights up again.
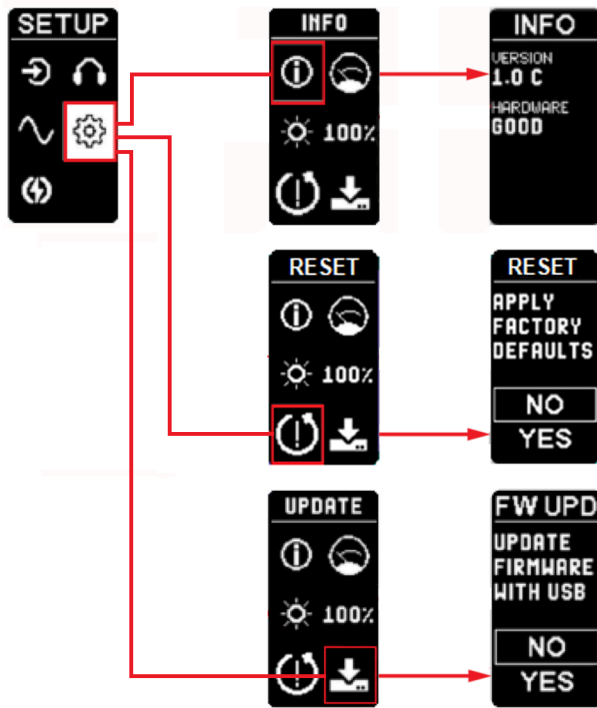
► Got to MENU > SETUP > DISPLAY
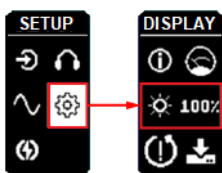
5.11   Software Update

The currently installed version is displayed in the INFO menu.

► Go to *MENU > SETUP > INFO* to view the installed version.

How to install the new version on the AEM-1 module:

1. Download the AEM-1 software from the Downloads section of the ALEXA 35 website.

2. Copy the file PAM.HEX on an USB memory stick formatted as FAT16 or FAT32 (no exFAT).

3. Got to *MENU > SETUP > RESET* to reset the AEM-1.

4. Go to *MENU > SETUP > UPDATE* and select YES to start the update.

5. Connect the memory stick with the AEM-1 module.

6. After the update is completed, remove the USB memory stick and restart the camera.

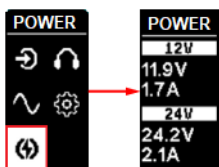## 5.12   Reset to default settings

► Got to *MENU > SETUP > RESET*.
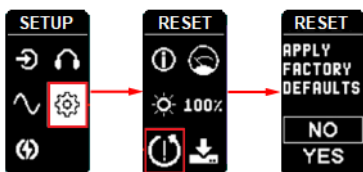
5.13   Power Input Control

To detect a possible overload at the 12V and 24V power input, there is a power input control indicator in the AEM-1 menu.

► Select *MENU > POWER*.

For each power input are displayed the current volt and amper values.

5.14 Error Messages and Debugging

When an error is detected, a message is posted in the home screen. It contains an error code, which is a decimal integer number. The same number can then be read from the SETUP/SYSTEM INFO menu.

The error code is a bitfield where:

Bit	Description
0	SigmaDSP failure
1	AK4104 digital transmitter failure
2	Missing dual-ADC calibration values

Debugging

The first thing to do if an error message occurs is to restart the system. If the error message persists, proceed as follows:

Possible reason:	Resolve error:
Hardware problem	1 Switch off the camera, the Audio Extension Module AEM-1 and all other connected devices. 2 Check if the ARRI Audio Extension Module AEM-1 is correctly attached to the camera. 3 Check if all connected devices have been connected properly. 4 Restart the Audio Extension Module AEM-1.
Software problem	Make sure that the latest software version is installed on the Audio Extension Module AEM-1. Go to *MENU > SETUP > INFO*.

If the error message continues to appear on the ARRI Audio Expansion Module AEM-1 display, contact "ARRI Service" .

6 Cleaning and Repair

6.1 Cleaning Instructions

ADVICE
(i) **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 should 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.

6.2 Repair

⚠ WARNING
⚡ **Repairs carried out by Untrained Personnel** Risk of electric shock and fire caused by short circuit. ▶ 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 camera system, please contact "ARRI Service".

7   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 "ARRI Service".

8 Disposal

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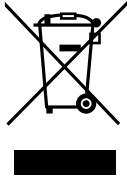
This product falls within the scope of Directive 2012/19 / EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of June 4, 2012 on waste electrical and electronic equipment (WEEE II).

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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