



# ACUO 908 Serie



# AEV On Air broadcast console

#### Guarantee

The equipment is warranted for a period of 2 years from the date of invoice (ex-works). The warranty does not cover faults provoked by carelessness, natural causes and parts subject to wear. In addition, the cost of shipment is not covered. The warranty will be voided if the equipment is mishandled.

#### **Technical Support**

If you require technical support, contact AEV SERVICE giving a clear and concise account of your speciic problem. Quote the serial number of your equipment by referring to the AEV nameplate attached to the equipment itself as this is the most important piece of information to be provided.

Telephone: +39 051 6630904 Fax: +39 051 893605

#### **Factory Service and Repairs**

If problems arise while the equipment is being installed, consult this manual and check that the installation is being carried out properly. If the problems still cannot be solved, call the AEV SERVICE Department for further information. If the problem is a minor one we can a telephone call will probably sufice. If, on the other hand, the equipment is to be shipped to AEV for service or repairs.

#### **Shipping Instruction**

When shipping the equipment to AEV, use the original package in order to be certain that it will be fully protected during handling. If you need the original package, call us for a new one. If you ship the equipment in a different packing container, take care to provide a double package by interposing padding material between the two containers in order to fully protect the equipment during shipment. The package should be marked "FRAGILE" in red. Remember that the RMA number must be clearly visible on the package. If it is not, the equipment will not be accepted.

**IMPORTANT:** Carefully read this paragraph as it contains important instructions concerning operator safety and directions regarding the installation, operation and maintenance of the equipment.

Failure to observe the safety instructions and information given in this manual **constitutes an** infringement of the safety rules and design specifications provided for this piece of equipment.

**AEV Broadcast Srl declines all responsibility** if any one of the safety rules given here in is not observed.

**AEV Broadcast Srl declines all responsibility** if the end-user resells the product. The equipment is to be used by people capable of operating it in a trouble-free manner and **it** is assumed that they are aware of the following safety rules.

- Keep this manual with the utmost care and close at hand so that it can be consulted whenever needed
- After unpacking the equipment, check it for condition.
- Avoid banging the equipment.
- The packing material (plastic bags, polystyrene, nails, etc.) must never be left within the reach of the children, as **these items are potential sources of danger**.
- Do not use the equipment in places where the temperature is not within the recommended range, as specified by the manufacturer.
- Before connecting the equipment, make sure the nameplate specifications correspond to the mains electricity supply (the nameplate is located on the equipment enclosure).
- Do not remove the sticker from the equipment as it contains important specifications and the relevant serial number.
- To join the equipment to the mains supply, use the power cord purchased with the equipment.
- The equipment must be used only for the purpose it was designed for.



- Abuse or misuse of the equipment is **extremely dangerous** for people, pets and property. The manufacturer declines all responsibility for damage and injury resulting from **improper use** and **mishandling**.
- Certain basic safety rules must be observed when using electrical equipment, in particular: Never touch the equipment with wet and/or damp hands or other parts of the body.
- Keep the equipment away from drops of water or sprinkling systems.
- Never use the equipment near high heat sources or explosive material.
- Do not introduce any extraneous matter into the equipment.
- Do not allow children or untrained people to use the equipment.
- Before cleaning or servicing the equipment outside, disconnect it from the supply and wait at least 2 seconds before working on it, as recommended by current safety regulations.
- In the event of faults and/or improper operation, turn off the equipment, shut off the electrical power and call your dealer.
- Do not attempt to make repairs and/or adjustments when covers/guards or circuit boards are to be removed.
- Blown fuses inside the power supply indicate that there may be a fault in the power supply itself. The fuses must be replaced by qualified and authorised persons. It is advisable to call your nearest dealer.
- Call your dealer for any repairs and be certain original spare parts are used.

#### Failure to observe this rule may adversely affect the safety level of your equipment.

- The equipment is to be connected to the mains supply and provided with adequate and efficient earth conductors.
- The electrical wiring must be done in compliance with current electrical codes CEI 64-8 "Electrical specification for domestic buildings".
- When installing, leave a clearance of at least 1 cm around the equipment to allow air to pass freely.

# NOTE. This piece of equipment has been manufactured to the highest standards of workmanship. It must be used properly and serviced as recommended to ensure long-term dependable operation.

The installation must be done in order to be able to guarantee an easy access to the cable of feeding.

The device of dissection of the equipment is the cable of feeding, so it must be unconnected from the equipment every time it is necessary to do any type of maintenance.

# ACUO 908 Serie - AEV ON AIR CONSOLE

# **Contents**



#### **Features**

#### audio inputs:

8 double-channels

balanced Micro and line inputs, digital AES/EBU, USB audio I/O interface

#### Faders:

Faders (100 mm) with A/B input selector, 3 bands tones control on each input.

# Input functions and channels

Four Microphone inputs: (MIC1, MIC2, MIC3, MIC4)
 Eitgh stereo line inputs: (LIN2, LIN3, LIN4, LIN5, LIN6, LIN7, LIN8)
 Two digital AES/EBU input: (DIG1, DIG2)
 Two USB audio inputs: (USB1, USB2)

# Input channels configuration:

Channel 1: MIC1 / LINE1 Channel 2: MIC2 / LINE2 Channel 3: MIC3 / LINE3 Channel 4: MIC4 / LINE4 Channel 5: DIG1 / LINE5 Channel 6: DIG2 / LINE6 Channel 7: USB1 / LINE7 Channel 8: USB2 / LINE8

# Input setting

All settings are independent for each input, via encoder.

Channel setting:

- Gain / Level adjustment -12÷+12 dB - Input balance -12÷+12 dB - tone equalizer High, Medium , Low -14÷+14 dB - Private tel OFF/ON - Control Studio OFF/ON - PGM assignement SPEECH/MUSIC - C. Room Mute OFF/ON - ST MU OFF/ON - Tally 1 OFF/ON - Tally 2 OFF/ON

Talk back on C.StudioPhantom Power (only for Micro inputs)OFF/ON

Also you can to select the Bus assignment pushing the following buttons:

- PGM
- UTL
- AUX
- CUE

# **Master Outputs**

**PGM**: Analog balanced stereo with XLR connectors **UTL**: Analog balanced stereo with XLR connectors **AUX**: Analog balanced stereo with RJ45 connector **PGM Dig:** digital AES/EBU stereo with RJ45 connector **UTL Dig:** digital AES/EBU stereo with RJ45 connector

#### **Auxiliary outputs**

**Control Room:** Analog balanced stereo with RJ45 connector **Control Studio:** Analog balanced stereo with RJ45 connector **Mute C. Studio:** Analog balanced stereo with RJ45 connector **Headphone:** Analog stereo with Jack 6,3 mm connector

#### **Auxiliary input**

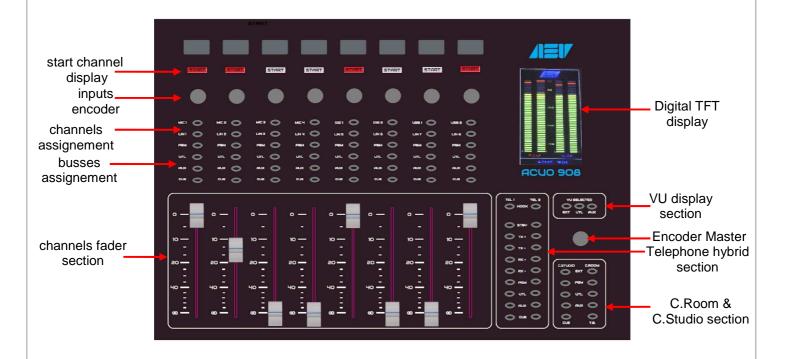
**External:** Analog balanced stereo with RJ45 connector

#### **External controls**

- Remote Fader with logic controls, (START/STOP) with RJ45 connector
- GPI Opto-isolated logic inputs
- GPO Opto-isolated logic outputs

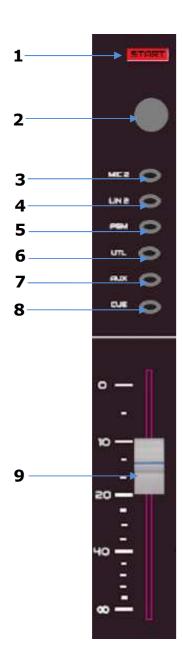
#### **Monitoring**

- Level control for headphone, Control Room, Control Studio mutable
- External inputs for Monitor
- Headphone with integrated amplifier
- double stereo digital VU-Meter on the TFT display PGM (fixed ) SEL (EXT, UTL, AUX )



# Micro - Line channel (channels 1 - 4)

All controls on the Micro-Line input channel are described below.



- **1** START lamp, it lights when the channel fader is active
- **2** knob jog ; directly it select the Gain input level the range is  $-12 \div +12$  dB;

in sequence, the following commands:

1th push-buttom Balance adjust (-12  $\div$  +12 dB)

2th push-buttom Treble band adjust (-14  $\div$  +14 dB)

3th push-buttom Middle band adjust (-14  $\div$  +14 dB)

4th push-buttom Bass band adjust (-14  $\div$  +14 dB)

5th push-buttom Private Tel active (OFF/ON)

6th push-buttom TB Studio to C.Room active (OFF/ON)

7th push-buttom PGM bus selection ( Speech/ Music)

8th push-buttom Control Room Mute active (OFF/ON)

9th push-buttom Mute C.Studio active (OFF/ON)

10th push-buttom Tally active (OFF/ON)

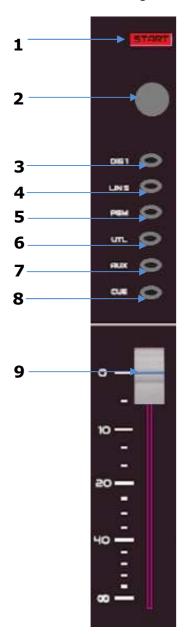
11th push-buttom TB Regia to C. Studio active (OFF/ON)

12th push-buttom Phantom power for the condenser microphone active ( OFF/ON )

- **3** MIC to activate the microphone source (only with the channel in STOP) microphones.
- **4** LINE to activate the line source (only with the channel in STOP)
- **5** PGM Button for routing the channel to the PGM bus.
- **6** UTL Button for routing the channel to the UTL bus.
- **7** AUX Button for routing the channel to the AUX bus.
- **8** Button enabling the preview CUE.
- **9** Fader.

# Dig - Line Module (channels 5 - 6)

All controls on the Dig-Line input channel are described below.



- 1 START lamp, it lights when the channel fader is active
- 2 knob jog; directly it select the Gain input level the range is -12 ÷ +12 dB;

in sequence, the following commands:

1th push-buttom Balance adjust (-12  $\div$  +12 dB)

2th push-buttom Treble band adjust (-14  $\div$  +14 dB)

3th push-buttom Middle band adjust (-14  $\div$  +14 dB)

4th push-buttom Bass band adjust (-14  $\div$  +14 dB)

5th push-buttom Private Tel active (OFF/ON)

6th push-buttom TB Studio to C.Room active (OFF/ON)

7th push-buttom PGM bus selection (Speech/ Music)

8th push-buttom Control Room Mute active (OFF/ON)

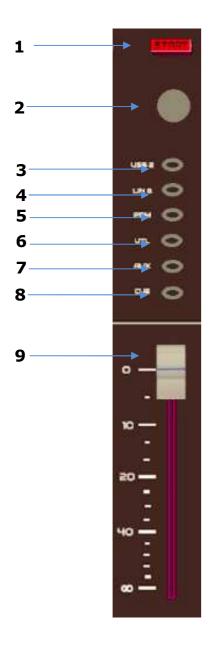
9th push-buttom Mute C.Studio active (OFF/ON)

10th push-buttom Tally active (OFF/ON)

- 11th push-buttom TB Regia to C.Studio active (OFF/ON)
- **3** DIG to activate the digital AES/EBU source (only with the channel in STOP)
- **4** LINE to activate the line source (only with the channel in STOP)
- **5** PGM Button for routing the channel to the PGM bus.
- **6** UTL Button for routing the channel to the UTL bus.
- **7** AUX Button for routing the channel to the AUX bus.
- 8 Button enabling the preview CUE.
- **9** Fader.

# **USB - Line Module (channels 7 - 8)**

All controls on the USB-Line input channel are described below.



- **1** START lamp, it lights when the channel fader is active
- **2** knob jog; directly it select the Gain input level the range is  $-12 \div +12$  dB;

in sequence, the following commands:

1th push-buttom Balance adjust  $(-12 \div +12 \text{ dB})$ 

2th push-buttom Treble band adjust (-14  $\div$  +14 dB)

3th push-buttom Middle band adjust (-14  $\div$  +14 dB)

4th push-buttom Bass band adjust (-14  $\div$  +14 dB)

5th push-buttom Private Tel active (OFF/ON)

6th push-buttom TB Studio to C.Room active (OFF/ON)

7th push-buttom PGM bus selection (Speech/Music)

8th push-buttom Control Room Mute active (OFF/ON)

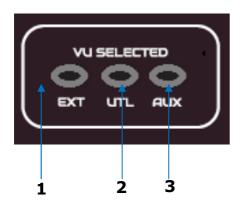
9th push-buttom Mute C.Studio active (OFF/ON)

10th push-buttom Tally active (OFF/ON)

11th push-buttom TB Regia to C. Studio active (OFF/ON)

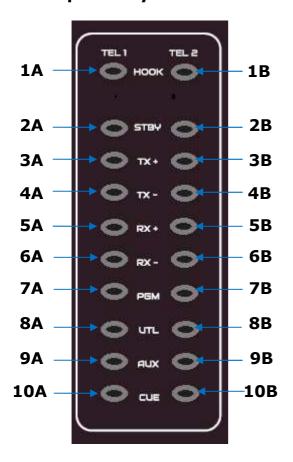
- **3** USB to activate the digital usb source (only with the channel in STOP)
- **4** LINE to activate the line source (only with the channel in STOP)
- **5** PGM Button for routing the channel to the PGM bus.
- **6** UTL Button for routing the channel to the UTL bus
- **7** AUX Button for routing the channel to the AUX bus.
- 8 Button enabling the preview CUE.
- 9 Fader.

# Monitoring section



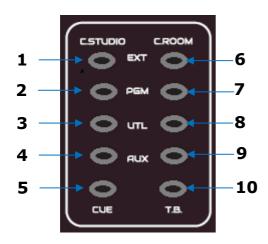
- **1** Button for selecting the EXT input on Switched digital VUMeters.
- **2** Button for selecting the Master UTL output on Switched digital VU-Meters.
- **3** Button for selecting the Master AUX output on Switched digital VU-Meters.

# Telephone hybrids section



- **1A** HOOK button for telephone line 1 hook-up.
- **1B** HOOK button for telephone line 2 hook-up.
- **2A** Button for Stanby state for telephone line 1.
- 2B Button for Stanby state for telephone line 2.
- **3A** Button for TX+ adjust for telephone line 1.
- **3B** Button for TX+ adjust for telephone line 2.
- **4A** Button for TX- adjust for telephone line 1.
- 4B Button for TX- adjust for telephone line 2.
- **5A** Button for RX+ adjust for telephone line 1.
- **5B** Button for RX+ adjust for telephone line 2.
- **6A** Button for RX- adjust for telephone line 1.
- **6B** Button for RX- adjust for telephone line 2.
- **7A** Button for assigning the tel1 to the PGM bus.
- **7B** Button for assigning the tel2 to the PGM bus.
- **8A** Button for assigning the tel1 to the UTL bus.
- **8B** Button for assigning the tel2 to the UTL bus.
- **9A** Button for assigning the tel2 to the AUX bus.
- **9B** Button for assigning the tel2 to the AUX bus.
- **10A** -Button for assigning the tel2 to the CUE bus.
- **10B** -Button for assigning the tel2 to the CUE bus.

#### **Room & Studio section**



#### **Control Studio selection**

- 1 Button for selecting the EXT input for routing it to the Control Studio output.
- 2 Button for selecting the master PGM output for routing it to the Control Studio output.
- 3 Button for selecting the master UTL output for routing it to the Control Studio output.
- 4 Button for selecting the master AUX output for routing it to the Control Studio output.
- **5** Button for selecting the CUE bus for routing it to the Control Studio output.

#### **Control Room selection**

- 6 Button for selecting the EXT input for routing it to the Control Room outputs.
- 7 Button for selecting the master PGM output for routing it to the Control Room outputs.
- 8 Button for selecting the master UTL output for routing it to the Control Room outputs.
- 9 Button for selecting the master AUX output for routing it to the Control Room outputs.

#### **Talk Back**

10 – Button to active the Talkback function to the Control Studio outputs.

#### Talk back Regia to Studio:

When the TB (talk back) button is pressed, the signal of the enabled microphone is sent to the Control Studio output.

- Channel with function talkback to studio (TBST: ON)
- Channel in STOP

#### What happens:

- the Talk back button of the remote fader lights up
- the previous selection of the Control Studio flashes
- the audio signal present in the Control studio is replaced by the channel selected in TB

#### Talk back Studio to Regia:

(need the Remote Fader)

- Channel connected to the Remote Fader unit with talkback function activated (STCR: ON)
- Channel in STOP

What happens when the remote TB (talk back) button is pressed:

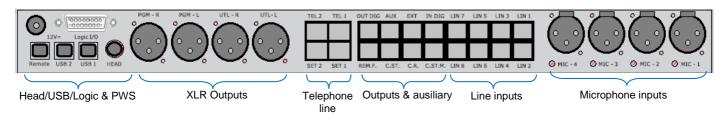
- the Talk back button of ACUO flashes
- the previous selection of the Control Room flashes
- the audio signal present in the Control Room is replaced by the channel connected to the Remote Fader unit
- the signal of the enabled microphone is sent to the Control Room output.

## **Master setup**

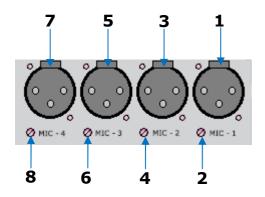
Master knob jog ; directly it select the Gain headphone level, the range is  $-\infty \div +8$  dB; in sequence, the following commands:

- 1 th push-buttom Control Room level ( $-\infty \div +8$  dB)
- 2 th push-buttom Control Studio level ( $-\infty \div +8 \text{ dB}$ )
- 3 th push-buttom PGM output level (-12  $\div$  +12 dB)
- $4^{th}$  push-buttom External input level (-12 ÷ +12 dB)
- 5<sup>th</sup> push-buttom CUE interlock (OFF/ON)
- 6<sup>th</sup> push-buttom PGM Digital sample rate (32, 44.1, 48, 96 KHz)
- 7<sup>th</sup> push-buttom UTL Digital sample rate (32, 44.1, 48, 96 KHz)
- 8<sup>th</sup> push-buttom channel's selection to GPIO 1 ( Start/STOP A) command
- 9<sup>th</sup> push-buttom channel's selection to GPIO 2 ( Start/STOP B) command
- 10<sup>th</sup> push-buttom channel's selection to GPO 3 ( Start/STOP C) command

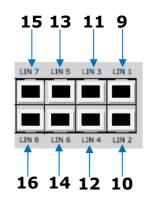
#### Rear panel - connections



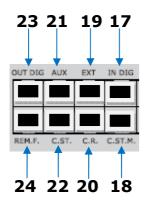
# **Microphone inputs connection**



#### Line inputs connection



# **Outputs & Ausiliary connection**



- 1 Microphone 1 input XLR F connector.
- 2 Trimmer adjusting the MIC 1 input level from 0 ÷ to +30 dB for very low volume microphones.
- **3** Microphone 2 input XLR F connector.
- **4** − Trimmer adjusting the MIC 2 input level from 0 ÷ to +30 dB for very low volume microphones.
- **5** Microphone 3 input XLR F connector.
- **6** − Trimmer adjusting the MIC 3 input level from 0 ÷ to +30 dB for very low volume microphones.
- **7** Microphone 4 input XLR F connector.
- **8** Trimmer adjusting the MIC 4 input level from 0 ÷ to +30 dB for very low volume microphones
  - 9 Line 1 input RJ45 connector.
- **10** Line 2 input RJ45 connector.
- **11** Line 3 input RJ45 connector.
- **12** Line 4 input RJ45 connector.
- **13** Line 5 input RJ45 connector.
- **14** Line 6 input RJ45 connector. **15** Line 7 input RJ45 connector.
- 16 Line 8 input RJ45 connector.

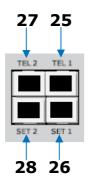
- 17 Dig1 & Dig2 input RG45 connector.
- **18** Control Studio Mutable output RJ45 connector
- 19 External input RG45 connector.
- 20 Control Room output RJ45 connector.
- 21 AUX output RJ45 connector
- **22** Control Studio output RJ45 connector.
- 23 PGM Dig & UTLDig input RG45 connector.
- 24 Remote Fader RG45 connector.

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#### **Telephone connection**



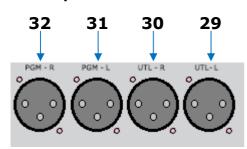
25 - Connector RJ45 for telephone line 1.

26 - Connector RJ45 for telephone service 1.

27 - Connector RJ45 for telephone line 2.

**28**- Connector RJ45 for telephone service 2.

#### **Outputs XLR connection**



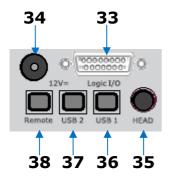
**29** – UTL left channel XLR connector.

**30** – UTL right channel XLR connector.

**31** – PGM left channel XLR connector.

32 - PGM right channel XLR connector.

#### Head/USB/Logic & PWS connections



**33** – Logic I/O DB15 connector.

**34** – PWS connector.

**35** – Headphone jack 6,3 mm connector.

**36** – USB 1 connector.

**37** – USB 2 connector.

**38** – USB serial connection.

# Line in /AUX/C.Room/C.Studio/Ext RJ45 pin out



1e - left channel +

2e - left channel -

3e - right channel +

**4e** - GND

**5e** - N.C.

6e - right channel -

**7e** - N.C.

8e - N.C

# Digital Outputs RJ45 pin out



1° - left anne +

2° - left anne -

3° - right anne +

4° - GND

**5°** - N.C.

6° - right anne -

**7°** - N.C.

8° - N.C

# Remote fader RJ45 pin out



**1p** - UTL dig +

**2p** – UTL dig –

3p - PGM dig +

4p - GND

**5p** - N.C.

6p - PGM dig +

**7p** - N.C.

**8p** - N.C.

#### Tel line/ tel set RJ45 pin out



**1t** - +5v

2t - IN

3t - Start/Stop L

4t - Start/Stop S

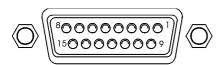
5t - Talk Back L

6t - Talk Back S

**7t** - GND

**8t** - GND

#### Logic I/O pin out



1 - 9 - GPO1 Start/Stop A; Start=close,

Stop=open

2 - 10 -GPO2 Start/Stop B; Start=close, Stop=open

**3 - 11** - GPO Tally; (Start)+(Tally ON)

4 - 12 - GPO3; (Start) on attached channel

5 - 13 - GPI1 Start/Stop IN A; Toggle

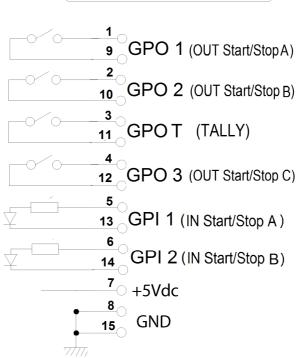
6 - 14 - GPI2 Start/Stop IN B; Toggle

**7** - +5V

8 - GND

**15** - GND





**Out Start/Stop A:** with the Master knob jog to the **GPIO1 (Start/Stop A)** function, to assign the input channel, so when this channel is in Start, the contact between the pins 1 and 9 will close, with the channel in Stop, the contact will open.

**Out Start/Stop B:** with the Master knob jog to the **GPIO2 (Start/Stop B)** function, to assign the input channel, so when this channel is in Start, the contact between the pins 2 and 10 will close, with the channel in Stop, the contact will open.

**GPO Tally:** this function is enabled (ON) by the channel's encoder; when the channel changes over to START mode, a stable contact is activate between the pins 3 and 11.

**GPO 3** with the Master knob jog to the **GPIO2 (Start/Stop C)** function, to assign the input channel; when the channel changes over to START mode, a stable contact is activate between the pins 4 and 12.

**In Start/Stop A:** with the Master knob jog select the function **GPIO1 (Start/Stop A)** and assign the channel; so every time that the opto-copled between the pins 5 and 13 will active by the external circuit, the channel changes between the START and STOP mode. The state of the channel will sent to the external device by the **Out Start/Stop A** contact.

**In Start/Stop B:** with the Master knob jog select the function **GPIO2 (Start/Stop B)** and assign the channel; so every time that the opto-copled between the pins 6 and 14 will active by the external circuit, the channel changes between the START and STOP mode. The state of the channel will sent to the external device by the **Out Start/Stop B** contact.

# AEV ACUO 908 Serie - AEV ON AIR CONSOLE

#### Telephone hybrids - operation

- Incoming Phone Call: The button HOOK flashes
- Attach incoming call: Press the HOOK (the button glows)
- Phone call on hold:
  - o HOOK ON
  - o press the STBY button, the external user hears the audio signal of the selected bus on the corresponding telephone line
- Communicate privately with the external telephone user phone:
  - o HOOK (ON)
  - o STBY (ON)
  - o CUE (ON) of the selected telephone line
  - o PRIV TEL function atctive (ON) of the microphone channel
  - o MIC channel in STOP
- Function Meeting of the two phone calls:
  - o (STBY OFF) enabled on the same bus ( PGM or UTL or AUX ) to the hybrid channel TEL1, TEL2 and a channel with microphone
  - o to listen to audio of the telephone lines to activate the corresponding bus in the C. Room selection (Regia) and / or C.Studio (Studio).





#### **TECHNICAL SPECIFICATIONS**

**Microphone Inputs** 

Input configuration Electronically balanced

Input Impedance 200  $\Omega$ 

Sensitivity Level Range Adjustable from -70 ÷-40 dBu (Trimmer adj.)

Input Level Range ±12 dBu (Digital adj. step 0,5 dB)

Maximum Input Level - 30 dBu

Phantom Supply 48 Vdc selectable 100 mm Fader VCA Digital controlled

Connector XLR Female

**Line Inputs** 

Input configuration Electronically balanced Input Impedance 10 K  $\Omega$  (600  $\Omega$  wired)

Input Level Range ±12 dBu (Digital adj. step 1,0 dB)

Headroom + 18 dBu

100 mm Fader control VCA Digital controlled

Connector RJ-45

**Digital inputs** 

Input configuration AES/EBU, IEC958,S/PDIF & EIAJ CP340/1201 Sample Rate Automatic 32, 44.1, 48, 96 KHz converter

100 mm Fader control VCA Digital controlled

Connector RJ-45

**Telephone Hybrid** 

 $\begin{array}{ll} \text{Input configuration} & \text{Opto-coupled} \\ \text{Input impedance} & \text{600 } \Omega \text{ Bal} \\ \end{array}$ 

Line Compensation Automatically (max 5 Km)

Tx Level  $\pm 12$  dBu (Digital adj. step 0,5 dB) Rx Level Range  $\pm 12$  dBu (Digital adj. step 0,5 dB)

Frequency response 300 Hz  $\div$  3400 Hz (-2 dB) ; 300 Hz  $\div$  3400 Hz (-1.5 dB)

 $\begin{array}{ll} \mbox{Distortion} & < 1.5 \ \% \\ \mbox{Noise} & -60 \ \mbox{dB}. \end{array}$ 

**Analog Outputs** 

Output configuration Electronically balanced

Output Impedance  $100 \ \Omega$  PGM Output Level Range  $-12 \ \div \ +12 \ dBu$ 

Connector XLR male
UTL/AUX Output Level Range 0 dBu fixed
Connector RJ-45

C Room Mut.Output Lev. - 12÷ +12 dBu

Connector RJ-45

**Digital Outputs** 

Output configuration AES/EBU, IEC958,S/PDIF & EIAJ CP340/1201 Sample Rate Automatic 32, 44.1, 48, 96 KHz converter

Connector RJ-45

**Headphones** 

configuration Type Stereo unbalanced (C.Room no Muted)

Output Impedance 50  $\Omega$  Connector JACK 6,3 mm

Logic I/O

Configuration Optic solid state relay

Max Voltage 50 Vdc/ac Max Current 100 mA

Connector DSUB 15 pole female USB Port 2 x USB 2.0 interface

Dimensions 460 x 360 x 44 mm ( L x D x H )

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