

Web site <u>www.aev.eu</u> e-mail <u>info@aev.eu</u>



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.



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Features

audio inputs:

12 double-channels + 2 telephone hybrids balanced Micro and line inputs, digital AES/EBU, USB audio I/O interface, TELCO I/O

Faders:

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

Input functions and channels

- Six Microphone inputs
- Twelve stereo balanced line inputs
- (MIC1,...,MIC6) (LIN1,....LIN12)
- Four digital AES/EBU input
- Two USB audio inputs
- Two telephone hybrid/TELCO

(DIG1, DIG2, DIG3, DIG4) (USB1, USB2) (TEL1, TEL2)

Input channels configuration:

Channel	1	:	MIC1	/	LINE 1
Channel	2	:	MIC2	/	LINE 2
Channel	3	:	MIC3	/	LINE 3
Channel	4	:	MIC4	/	LINE 4
Channel	5	:	MIC5	/	LINE 5
Channel	6	:	MIC6	/	LINE 6
Channel	7	:	DIG1	/	LINE 7
Channel	8	:	DIG2	/	LINE 8
Channel	9	:	DIG3	/	LINE 9
Channel	10	:	DIG4	/	LINE10
Channel	11	:	USB1	/	LINE11
Channel	12	:	USB2	1	LINE12

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	OFF/ON
- Talk back on C.Studio	OFF/ON
 Line mono (only for Micro inputs) 	OFF/ON
- Phantom Power (only for Micro inputs)	OFF/ON

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

- PGM - UTL
- AUX
- CUE



Master Outputs

PGM: Analog balanced stereo with XLR connectors **UTL**: Analog balanced stereo with RJ45 connector **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 – 6)

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



 ${\bf 1}$ – 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

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

13th push-buttom Micro or LineMono selection(OFF/ON)

- 3 MIC Button to activate the microphone source (only with the channel in STOP)
- 4 LINE Button n 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 7 – 10)

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



- 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)

 ${\bf 5}$ – 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 11 – 12)

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 ÷ +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 – 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/TELCO 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
108. 108 bus.	-Button for assigning the tel2 to the CUE

Room & Studio section



Control Studio selection

 Button for selecting the EXT input for routing it to the Control Studio output.
 Button for selecting the master PGM output for routing it to the Control Studio output.
 Button for selecting the master UTL output for routing it to the Control Studio output.
 Button for selecting the master AUX output for routing it to the Control Studio output.
 Button for selecting the master AUX output for routing it to the Control Studio output.
 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.

Master setup

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

- 1th push-buttom Control Room level ($-\infty \div +8 \text{ dB}$)
- 2th push-buttom Control Studio level (- $\infty \div +8 \text{ dB}$)
- 3th push-buttom PGM output level (-12 \div +12 dB)
- 4th push-buttom External input level (-12 \div +12 dB)
- 5th push-buttom CUE interlock (OFF/ON)
- 6th push-buttom PGM Digital sample rate (32, 44.1, 48, 96 KHz)
- 7th push-buttom UTL Digital sample rate (32, 44.1, 48, 96 KHz)
- 8th push-buttom channel selection to associate the command I / O Start/Stop A (GPIO 1)
- 9th push-buttom channel selection to associate the command I / O Start/Stop B (GPIO 2)

10th push-buttom channel selection to associate the command Out Start/Stop

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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.



Rear panel – connections



Microphone inputs connection



Inputs & Telco 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.
- Microphone 3 input XLR F connector. 5
- 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** Microphone 5 input XLR F connector.
- **10** Trimmer adjusting the MIC 3 input level from 0 ÷
- to +30 dB for very low volume microphones.
- 11 Microphone 4 input XLR F connector.

12 - Trimmer adjusting the MIC 4 input level from 0 ÷

- to +30 dB for very low volume microphones
- **13** Line 1 input RJ45 connector.
- 14 Line 2 input RJ45 connector.
- 15 Line 3 input RJ45 connector.
- **16** Line 4 input RJ45 connector.
- **17** Line 5 input RJ45 connector.
- 18 Line 6 input RJ45 connector.
- **19** Line 7 input RJ45 connector.
- 20 Line 8 input RJ45 connector.
- **21** Line 9 input RJ45 connector.
- 22 Line 10 input RJ45 connector.
- **23** Line 11 input RJ45 connector.
- 24 Line 12 input RJ45 connector.
- 25 Digital 1/2 input RJ45 connector
- (RJ45- XLRF cable: L=IN DIG 1; R=IN DIG 2)
- 26 Digital 3/4 input RJ45 connector
- (RJ45- XLRF cable: L=IN DIG 3; R=IN DIG 4)
- 27 Telco 1 IN/OUT RJ45 connector.
- 28 Telco 2 IN/OUT RJ45 connector.
- 29 External input RG45 connector.
- **30** Control Studio Mutable output RJ45 connector
- **31** PGM Dig & UTL Dig outputs RG45 connector
- (RJ45- XLRM cable: L=OUT PGM; R=OUT UTL)
- 32 Control Room output RJ45 connector.
- 33 AUX master output RJ45 connector
- 34 Control Studio output RJ45 connector.
- **35** UTL master RG45 connector.
- 36 Remote Fader RG45 connector.

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Telephone connection



- **37** Connector RJ45 for telephone line 1.
- **38** Connector RJ45 for telephone service 1.
- **39** Connector RJ45 for telephone line 2.
- **40** Connector RJ45 for telephone service 2.

Outputs XLR connection



- **41** PGM left channel XLR connector.
- **42** PGM right channel XLR connector.

Head/USB/Logic & PWS connections



- 43 Logic I/O DB15 connector.
- 44 PWS connector.
- **45** Headphone jack 6,3 mm connector.
- **46** USB 1 connector.
- **47** USB 2 connector.
- 48 USB serial connection.

Sample connection Analog & AES/EBU



A) connect the PIN 1 & 3 togheter or

input signal decrease (-6dB)

B) leave pin 3 disconnected, in this case the

Unbalanced Input connection:

INPUT & OUTPUT pins

1 = GROUND 2 = INPHASE 3 = RETURN



Unbalanced Output connection:

DO NOT connect the PIN 1 & 3 together, to avoid breaking the electronic balancing circuit, leave pin 3 disconnected, leave pin 3 so the signal level decrease (-6 dB), but you will save the electronic balanced output driver

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pin out RJ45 Line&DigIn/UTL/AUX/C.Room/C.Studio/Ext



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



Remote fader RJ45 pin out



Tel line/ tel set RJ45 pin out



Telco I/O set RJ45 pin out



10 - UTL dig + **20** - UTL dig - **30** - PGM dig + **40** - GND **50** - N.C. **60** - PGM dig + **70** - N.C. **80** - N.C.

1p –	+5v
2p -	IN
3p -	Start/Stop L
4p -	Start/Stop S
5p -	Talk Back L
6p -	Talk Back S
7p -	GND
8p -	GND

Τt	-	N.C.
2t	-	N.C.
3t	-	N.C.
4t	-	tel set
5t	-	tel line
6t	-	N.C.
7t	_	N.C.
8t	_	N.C.

4 L N C

1t - input + 2t - input -3t - output + 4t - GND 5t - GND 6t - output -7t - N.C.

8t - telco activation - active low (GND)

Logic GPI/O port



- **1–14** GPO1 Start/Stop A; Start=close, Stop=open with selected channel
- **2–15** GPO2 Start/Stop B; Start=close, Stop=open with selected channel
- **3–16** GPO Tally; (Start)+(Tally ON)
- 4–17 GPO3 ; (Start) with selected channel
- 5-18 GPI1 Start/Stop IN A ; Toggle
- 6-19 GPI2 Start/Stop IN B ; Toggle
- **7** +5V

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- **8** +5V TEL1
- 9 21 GPI TEL 1 (CALL)
- **11** +5V TEL2
- **12 24** GPI TEL 2 (CALL)
- **10 -22** GPO TEL 1 (HOOK)
- **13 25** GPO TEL 2 (HOOK)

20 - 23 GND

- **GPO 1 Out (Start / Stop A)** through the encoder master to the voice GPIO1 (Start / Stop A) select the channel assignment, so when the channel will in Start, the contact between 1 and 14 will close, with the channel in Stop the contact is open .
- **GPO 2 Out (Start / Stop B)** through the Master encoder select GPIO2 (Start / Stop B) and select the channel assignment, so when the channel will put in Start, the contact between 2 and 15 will close , with the channel put in Stop the contact is open.
- **GPO Tally** : Endcoder in each channel, through the Encoder, to the item TALLY set ON , so closes the contact between pins 3 and 16 will close when the channel is put in Start
- **GPO 3** : Endcoder by the Master, under GPO3 select the channel assignment , so, the contact between pins 4 and 17 will close when the channel will put in Start in, the contact will open when you put in Stop the channel.
- **GPI 1 (In Start/Stop A)** : through the Master encoder select **GPIO1 (Start/Stop A)** and select the channel assignment, in which way , from the outside, through a circuit to activate the photo coupler placed between the pins 5 and 13, states Start and Stop will alternate in the channel , the status of which will be remote using the control **Out Start/Stop A**
- **GPI 2 (In Start/Stop B)** through the Master encoder select **GPIO2 (Start/Stop B)** and select the channel assignment, in which way , from the outside, through a circuit to activate the photo coupler place between pins 5:13 states will alternate start and stop of the channel , the status of which will be using the remote control **Out Start/Stop A**
- **GPI TEL1 (In CALL 1)** from the outside, through a circuit to activate the photo coupler place between pins 9:21 states will alternate Hook flash botton of the TEL 1 channel, the status of which will be using the remote control **Out Start/Stop A**
- **GPI TEL2 (In CALL 2)** from the outside, through a circuit to activate the photo coupler place between pins 12:24 states will alternate Hook flash botton of the TEL 2 channel, the status of which will be using the remote control **Out Start/Stop A**



Telephone hybrids / Telco operations

- Incoming Phone Call: HOOK button flashes
- Attach incoming call, press the **HOOK** key (it remains lit)
- Telephone call on hold:
 - o buttom **HOOK** in ON
 - **CUE** (ON) of the bar phone selected
 - **PRIV TEL** (ON) of the microphone channel
 - Regia Microphone in **STOP**
- Meeting function:
 - (STBY OFF) enabled on the same bus hybrids TEL1, TEL2 and possibly a channel with microphone
 - to listen to audio on your phone to activate the corresponding bus C. Room (Regia) and / or C.Studio (studio).
 - **PRIV TEL** (ON) of the microphone channel

TELCO FUNCTION

When the Telco RJ45 adapter is connect, the ACUO CPU recognizes the connection and switches the internal circuit in the Telco function;

- all level signals adjust will be the same of the telephone wired connection: TX+, TX-, RX+, RX-
- In the Logic I/O DB25 port there are also the input & output commands to interface a external telephone hybrid, connecting these commands to the GPIO of the external telephone hybrid you will see the incoming phone call : HOOK button flashes; in order to Attach incoming call, press the HOOK key (it remains lit) Connection HOOK commands to GPI/O of external telephone hybrid contact:



• You can choose the internal bus where you drive the telco audio signal (PGM, UTL, AUX)

Remote Fader ACUO serie

In order to optimize the operativity, it is possible to connect the option Remote Fader unit to the console with a simple ethernet cable



42 talk Back button on ACUO



- 39 talk Back button Remote Fader
- 40 Music slider
- **41** START/STOP button

With the Remote fader it is possible to commad the START/STOP state of the assigned channels, in every channel it is possible to active the assignement in the channel setup:

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

7th push-buttom PGM bus selection (Speech)

With the slider of the Remote Fader (40) you can reduce all inputs setted as Music and microphone channels associated (speech) do not change the level.

Talk back Studio to Regia :

- Channel connected to the Remote Fader unit with talkback function activated (STCR: ON)
- Channel in STOP (41)

What happens when the remote TB (talk back) button of the REMOTE Fader unit (39) is pressed:

- the Talk back button of ACUO (42) 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

•

Talk back Regia to Studio:

When the TB (talk back) button in the ACUO console (42) 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 (39)
- the previous selection of the Control Studio flashes
- the audio signal present in the Control studio is replaced by the channel selected in TB

ACUO Software control

With the software program, it is possible to display and command the state and all features of the console ACUO.

To active the ACUO software, it needs to install the "Acuo install" on the computer and to connect the Remote USB port.

When the Acuo software will be installed, It will appear the icon () on the desktop and so it is possible to run the Auo software. When the software is ranning, there is a check about the Acuo model connected: ACUO 908 or ACUO 912, When the software recognizes the console model, it is configured appropriately.

Description

PGM & UTL level meter - On the top side they are displayed the two stereo led bar PGM and UTL **Channels** – under the led meter section there is the channel section, with the assignement bus key, the input name box, the slider and the START button.

Tel/Telco – to the right side respect the channels section, there is the Telephone Hybrids/Telco section **C.Studio & C.Room** - under the Tel/Telco section, there is the Control Studio & Control Room keys assignement.

Clock – under the name of the console it is displayed the clock, the leds placed in the circle mark the flow of seconds, internally to the circle ther is the AEV logo and it displayed the time in format HH:MM.SS

Timer – under the clock there is the timer (mm:ss).

Master Setup – key to open the Master Setup

Image section – right square, uder the MASTER SETUP key



Option setup

In the top right corner, there is the OPTION key function, pressing this button it opens the assignement mask for the two Vu-Meter stereo bars, also you can select an image to display in the opposite corner in low side instead the OPTION key.



CD PLAYER	EXTERNAL	PC AUTOMATION	Chn 9	Chn 10	Chn 11
	- Settings - Device Monitor I Microfono (3- U Device Monitor I Microfono (3- U - Customer Image - C:\Users\utent	PGM JSB Audio CODEC) UTL JSB Audio CODEC) e e\Desktop\AEV Broadcast\in	nmagini AEV\logo\logoaen	v_mo Abort	
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ACUO 912 Serie - AEV ON AIR CONSOLE

Channel Setup



For each channel it is available the channel setup function, this mask include all setup of the hardware functions: the GAIN and Tone Control can to be modify the value with the rotation of the virtual potentiometers



The position horizontal slider to set the Balance left and right channels, the value it is show in the left side of the mask



the automatic functions as Private Tel, Talck Back activation, Speach/Music PGM assignment, C.Room Mute command, Control Studio Mute command, TALLY activation, Talck Back Regia to Studio and Phantom power enable (only for microphone input).

It is possible to edit the name of the two input channel using the "Line 1" and the "Line 2" field, so you can display the name of the input source on the top of the channel setup button

ACUO 912 Serie - AEV ON AIR CONSOLE

Master setup

-36 -34 -31	2 -30 -28	-26 -24	-22 -20	-18 -16						Telephone	ACUO 912
-36 -34 -33	2 -30 -28	-26 -24	-22 -20	-18 -16						Hybrid	
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				LIN 7		LIN 9 🔛	LIN 10				
		PGM		РБМ	PGM	PGM	PEM	PGM	РБМ 📕		
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	AUX		AUX								💽 🖉 🖉 🖉
										CUE	
MIC GUEST 2	MIC REGIA	CD PLAYER	ТАРЕ	PC CUE	PC ONAIR	Chn 9	Chn 10		Chn 12		27
		- Settings									
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START	START	START	START	START	START	START	START	START	START		

this mask include all setup of the master functions: the control level of the headphone and it can to be modified the value with the rotation of the virtual potentiometer, all others level outputs can to modified through the vertical sliders:



AEV Broadcast Srl, via della Tecnica 33 – 40050 Argelato (BO) Italy Web site <u>www.aev.eu</u> e-mail <u>info@aev.eu</u>

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TIMER

The count is displayed in minutes: seconds.



The timer start the count from 00:00 when a microphone channel turn ON, so the conductors can monitoring their adverts time.



and it will stop only when all microphone channels are turn OFF.



ACUO 912 Serie - AEV ON AIR CONSOLE

TECHNICAL SPECIFICATIONS

Microphone Inputs

Input configuration Input Impedance Sensitivity Level Range Input Level Range Maximum Input Level Phantom Supply 100 mm Fader Connector

Line Inputs & External Input

Input configuration Input Impedance Input Level Range Headroom 100 mm Fader control Connector

Digital inputs

Input configuration Sample Rate 100 mm Fader control Connector

Telephone Hybrid / Telco

Input configuration Input impedance Line Compensation Tx Level Rx Level Range Frequency response Distortion Noise

Analog Outputs

Output configuration Output Impedance PGM Output Level Range Connector UTL/AUX Output Level Range Connector C Room Mut.Output Lev. Connector

Digital Outputs

Output configuration Sample Rate Connector

Headphones

configuration Type Output Impedance Connector

Logic I/O

Configuration Max Voltage Max Current Connector USB Port **Dimensions** Electronically balanced 200 Ω Adjustable from -70 ÷-40 dBu (Trimmer adj.) ±12 dBu (Digital adj. step 0,5 dB) - 30 dBu 48 Vdc selectable VCA Digital controlled XLR Female

Electronically balanced 10 K Ω (600 Ω wired) ±12 dBu (Digital adj. step 1,0 dB) + 18 dBu VCA Digital controlled RJ-45

AES/EBU, IEC958,S/PDIF & EIAJ CP340/1201 Automatic 32, 44.1, 48, 96 KHz converter VCA Digital controlled RJ-45

Opto-coupled 600Ω Bal Automatically (max 5 Km) $\pm 12 \text{ dBu}$ (Digital adj. step 0,5 dB) $\pm 12 \text{ dBu}$ (Digital adj. step 0,5 dB) $300 \text{ Hz} \div 3400 \text{ Hz}$ (-2 dB) ; $300 \text{ Hz} \div 3400 \text{ Hz}$ (-1.5 dB) < 1.5 %-60 dB.

Electronically balanced 100Ω $-12 \div +12 dBu$ XLR male $-12 \div +12 dBu$ RJ-45 $- 12 \div +12 dBu$ RJ-45

AES/EBU, IEC958,S/PDIF & EIAJ CP340/1201 Automatic 32, 44.1, 48, 96 KHz converter RJ-45

Stereo unbalanced (C.Room no Muted) 50 Ω JACK 6,3 mm

Optic solid state relay 50 Vdc/ac 100 mA DSUB 25 pole female 2 x USB 2.0 interface 690 x 360 x 44 mm (L x D x H)