



OPERA

Mixing Console
for Broadcast



Now with one or two
Digital Telephone Hybrids
Your Choice!

PROFESSIONAL AND
RELIABLE AUDIO CONSOLE

IN 1987 AEQ INTRODUCED ITS FIRST AUDIO MIXER FOR BROADCAST.

In the past 20 years, AEQ has sold thousands of consoles, spanning a total of nine different models. Each console provided reliability, unparalleled functionality, and superb sound quality. Many of AEQ's consoles from the 1980s are still in operation and working to this day.

Our many years of experience in manufacturing consoles is the basis for the new Opera; an analog console for medium-large radio stations, where superior performance and reliability are expected for years to come.

FRIENDLY USER OPERATION:

Opera's logical configuration and distribution of controls allows the operator to easily and quickly master its functionality. The automatic disconnect, signaling, etc. simplify the operator's workload.

EASY MAINTENANCE:

Opera's modularity allows quick and easy replacement of modules in just minutes. And, its high quality electronic components insure a long MTBF.

MODULARITY:

Opera can be configured to the user's specific requirements. In the standard configuration, OPERA's microphone / line modules are equalized. OPERA's standard configuration can easily be upgraded by adding new modules. Of special note is the digital telephone hybrid and its frequency extension and multiplex functionality.

ADVANCED DESIGN:

- Up to 17 input and output channels
- Transformer balanced mic and line inputs / outputs
- Electronically balanced stereo line and external inputs
- RF filtering on inputs
- Clipping indicators on input modules
- Independent control and PFL function on inputs / outputs
- Digital telephone hybrid modules with extender and multiplex option
- VCA signal control on faders
- Indirect control of the main sends
- Electronically balanced busses
- User programmable pre- or post- fader send
- Output module with simultaneous stereo and mono outputs
- Metal XLR connectors with latching locks
- Independent control of Control Room and Studio headphones
- Switch selectable operation – Self-Control or Studio-Control
- Remote mute from studio
- User selectable, Automatic ON AIR signaling on input modules
- 24 V. signaling power available
- 4-wire intercom for commands to exterior, O.B., unit coordination, etc.
- Monitoring bridge, has dual VU meters for Program and PFL-Select, adjustable viewing angle, and PFL high quality 2-way speakers
- Designed for countersink in studio furniture.

SPECIFICATIONS

INPUT DESCRIPTION:

OP-11 Channels. Mic/Line mono:

- Transformer balanced input
- Mic/Line switch
- Adjustable input gain
- Insertion point for external processors return signal
- 2 band equalizer
- Clipping indicator
- PFL (Pre-fader listening) button
- Telephone send level adjust
- Stereo Auxiliary buss send adjust
- Master buss send switch
- CHANNEL ON (channel mute) button with ON AIR signaling and speaker mute
- 100 mm. fader with VCA control
- XLR3 female input connectors for mic and line.

OP-22 Channels – Dual Stereo Line:

- Dual stereo electronically balanced input
- Line A / B switch
- Input gain adjust
- Mono / Stereo selector
- Clipping indicator
- PFL (Pre-fader listening) button
- Telephone send level adjust
- Stereo Auxiliary buss send adjust
- Master buss send switch
- CHANNEL ON (channel mute) button with independent machine start for input A and B
- 100 mm. fader with VCA control
- XLR3 female input connectors.

Auxiliary input functions:

- Two external stereo electronically balanced inputs for PFL in Control and Studio
- Intercom external line input.

INPUT AND OUTPUT CHANNEL DESCRIPTION:

OP-33 Channel. Bi-directional line access:

- Mono input and output for external telephone hybrid, 4-wire line or codec
- Remote control for hybrid or codec with ring indicator and off-hook button
- External line send level adjust
- PFL button for incoming and outgoing signals
- Stereo Auxiliary buss send adjust
- Master buss send switch
- CHANNEL ON (channel mute) button
- 100 mm. fader. VCA control
- XLR3 female input connectors. XLR3 male output connectors. DB9 connector for remote control.

OP-33 MPX Channel. Digital hybrid for normal bi-directional telephone line:

- Direct connection for telephone line with extra connector for auxiliary telephone set
- Ring indicator and off-hook button
- External line send level adjust
- FREQ. EXTENDER function to obtain more bass presence in calls to compatible units
- Multiplex function with a second OP-33 MPX, to allow 2 calls multiconference
- PFL button for incoming and outgoing signals
- Stereo Auxiliary buss send adjust
- Master bus send switch
- CHANNEL ON (channel mute) button
- 100 mm. fader. VCA control
- RJ-11 connector for telephone line and auxiliary telephone set.

OUTPUT DESCRIPTION:

OP-40 Channels. Auxiliary and Main Output:

- Each console can integrate two output channels
- Each channel has one stereo and one mono summed transformer balanced outputs
- 100 mm. fader. VCA control
- Three XLR3 male connectors.

Output auxiliary functions:

- Monitoring bridge with speakers for PFL and T-back with level adjust
- PFL sum buss (with associated reset) routed to VU meters and speakers in monitoring bridge
- CRM balanced stereo output with level adjust. Monitor cut for self-operation or control-studio mode.
- Dual control headphone output with level control
- SRM balanced stereo output. Master, Aux, Ext1 and Ext2 selection. Monitor cut available
- Studio headphone output with level control.

OTHER CHARACTERISTICS

- ON AIR signaling and monitor cut switch for self-operation and control-studio mode
- T-back microphone for Master, Aux, Studio, Telephone and Intercom
- Two stereo VU meters for Program and Select / PFL
- Cough-cut.

POWER: Aurorange: 100-240 VAC, 160 VA, 50/60 Hz.

WEIGHT AND DIMENSIONS

Approx. weight: 30 Kg (66 lbs).

Dimensions:

- Width: 835 mm. (32.9")
- Depth: 585 mm. (23")
- Height above desk: 195 mm. (7.7")
- Depth below desk: 105 mm. (4.1").

Countersink hole:

- Width: 800 mm. (31.5")
- Depth: 535 mm. (21")
- Minimum space from upper-surface of the desk: 125 mm. (4.9").

CAPACITY AND CONFIGURATIONS:

- Maximum capacity: 17 input, input-output, and output channels
- Maximum capacity of Input-Output channels: Two
- Maximum capacity of Output channels: Two.

Control-Studio configuration:

- 4 OP-11 channels, 6 OP-22 channels, 1 OP-33 MPX, 2 OP 40 channels, 4 blank panels.

Self-operation configuration:

- 2 OP-11 channels, 5 OP-22 channels, 1 OP-33 MPX, 1 OP-40 channel, 8 blank panels.



OPERA Control – Studio Configuration



OPERA side view



OPERA rear view

Specifications are subject to change without prior notification.

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