

MODULAR MIXING CONSOLE FOR BROADCASTING



Now you can
include one
or two
Digital
Telephone
Hybrids

A professional solution for broadcasting.

Today, a clear offering is available regarding professional audio mixing consoles for broadcasters. Broadcasters had to choose from within a range of equipment at excessive price and high performance or from a variety of small mixers, appropriate for discotheques, but highly inadequate for broadcast purposes.

The AEQ BC-500 has been specifically designed to cover the needs of small and medium-sized stations, offering all the advantages and features of professional equipment at an affordable price.

Among the many characteristics that make the BC-500 the ideal tool are:

USER FRIENDLY OPERATION:

Due to its configuration and logical distribution of controls, the operator easily and rapidly comprehends the different functions. The automatic disconnect, signalling, etc., simplify the operator's work.

EASY MAINTENANCE:

Its modular design permits the extraction for repair or replacement of each module in minutes. The high quality of electronic components guarantees a long service life.

MODULARITY:

The user has the possibility of configuring the mixer according to his specific requirements.

Using the standard configuration, the BC-500 can be easily enhanced by adding new input modules or re-accomodating the modules within the chassis according to his preference.

Outstanding among the modules is our BC 533 H MPX: the new digital telephone hybrid with frequency extension and multiplex. There are also equalized microphone / line modules and stereo dual line modules.

ADVANCED DESIGN :

- Pulse selectable operation mode, Auto Control or Studio Control.
- VCA signal control on faders.
- Indirect control of the main program.
- Electronically balanced buses.
- Transformer balanced inputs and outputs.
- External inputs 1 and 2 electronically balanced.
- TF filters on the microphone inputs.
- Metal XLR connectors with metallic latch locks.
- User programmable pre- or post- fader send.
- Remote mute from studio.
- Clipping indicators on input modules.
- Stereo PFL.
- External Telephone Hybrid input/output module.
- Stereo outputs and Mono sum (L+R) on each output.
- Independent control of studio and control headphones.
- 4 W intercom for commands to exterior, O.B., unit coordination, etc..
- Programmable automatic "On Air" signaling on input modules.
- Mode Selector: (Studio-Control or Auto-Control).

TECHNICAL SPECIFICATIONS

Mic Inputs:

Transformer balanced.
Input impedance: >3 kOhm.
Input range: - 94 dBv. Fader max. Master 0.- 17 dBv.
Equivalent noise: < - 123 dBv. 200 Ohm, 20 Hz -20 kHz.
Fader Gain: -∞ / +12 dB.

Line Inputs:

Transformer balanced.
BC - 522 electronic symmetry.
Input impedance: >6 k5 Ohm.
Input range: - 32 dBv. Fader max.
Master 0.+25 dBv.
Fader Gain: -∞ / +12 dB.

BC - 511 Input/Output Insertion.

Output impedance: < 1k8 Ohm.
Output level: - 6 dBv. Input 0 dBv.
Fader 0.
Master 0.
Master output +4 dBv.
Input impedance: > 50 kOhm.
Input range: -12 dBv. Fader max.
Master 0. +25 dBv.

BC - 533 Telephone Hybrid Interface Input/Output.

Output impedance: < 100 Ohm
Nominal output level: +2 dBv. Master output +4 dBv.
Fader 0.
Master 0.
Channel fader at 0.
Maximum phone send with 533 set to maximum.
Input impedance: > 8 kOhm.
Input range: -18 dBv. Fader max.
Master 0. +25 dBv.

External Inputs 1 and 2.

Electronic Symmetry.
Input impedance: > 5 kOhm.
Input level: -2 dBv. For 0 dBv in monitors output.

Send and Equalization

Auxiliary send: -∞ / +12 dBv.
-∞ / 0 dBv in pre-fader.
Phone send: -∞ / +12 dBv.
Master send: -∞ / +12 dBv.
BC - 511 Equalization: Low: +/- 16 dBv.

Stereo Master and Auxiliary Outputs.

Output impedance: < 75 Ohm.
Nominal output level: +4 dBv.
Maximum output level:
+18 dBv: D < 0.2%, 30 Hz - 20 kHz.
+25 dBv: D < 0.2%, 60 Hz - 20 kHz.
+27 dBv: D < 0.2%, 72 Hz - 20 kHz.
Bandwidth 3 dB: 20 Hz - 20 kHz.
Absolute output noise: < -70 dBv 20 Hz / 20 kHz.
Master fader 0.
All send off.
< -80 dBv 20 Hz / 20 kHz.
Master fader 0.
All send off.
< -85 dBv 20 Hz / 20 kHz.
Master fader -70.
All send off.
Cross-talk L / R: < -70 dBv 20 Hz / 20 kHz.

Control / Studio Monitor Outputs.

Output impedance of control monitor: < 75 Ohm
Output level: +4 dBv. Monitor level max.
Master output +4 dBv.
Absolute noise: -72 dBv.
Headphones output impedance: < 70 Ohm.
Output level: +20 dBv. H / Phones level max.
Master output +4 dBv.

Intercom.

Input impedance: > 4 kOhm.
Input sensitivity: 10 dBv.
Output impedance: < 75 Ohm.
Output level: +25 dBv max.

BC - 577 Signaling

Power Supply: 110/220 V AC. +6% -10%. 50 - 60 Hz.
Signaling voltage: +24 V DC, 20 VA.

Power Requirements.

110 / 220 V AC, + 6% - 10%, 50 - 60 Hz. 160 VA.

Dimensions and weight.

Height: 310 mm.
Width: 830 mm.
Depth: 590 mm.

Mixers Weight: 30 Kilograms. (66 Lb)

Designed and manufactured by:

