

PROFESSIONAL BROADCAST MIXER



Reliability and durability for Radio Networks.

The BC-2500 Console is intended to replace the well known BC-2000 Console, it will continue the modular design of the BC-2000 but it offers improved technical specifications, as well as a wide array of new capabilities. Its design highlights ease of operation, reliability and durability to minimize maintenance.

The BC-2500 console is built for Broadcast applications.

Its total modularity offers Input/Output connectors in the module itself which allows free module placement in the chassis.

Tailored configuration meets needs. The substitution or insertion of new modules takes a just few minutes.

The ample module offer permits great configuration flexibility. The following are the different modules offer:

- **BC-2511: Min/Line Mono Input with three band EQ with parametric frequencies in Midrange.**
- **BC-2521: Selectable Dual Stereo Line with EQ Input.**
- **BC-2522: Selectable Dual Stereo Line Input.**
- **BC-2533: Input/Output for two external telephone hybrid.**
- **BC-2560A: Stereo + Mono Output programmable as Master 1, Master 2, Auxiliary 1 or Auxiliary 2.**
- **BC-2560C: Master Output with Bypass of External Audio.**
- **BC-2578: Monitoring, Metering and Control.**
- **BC-2501: Chassis with 21 module capacity plus monitoring and control module BC-2578.**
- **BC-502: Blank module.**
- **BC-2523: External Power Supply (2 rack unit height).**

Console Advantages

- Programmable Speakers muting and metering, fader start and pre & post fader sends.
- Simultaneous Bar-Graph metering for Master Output 1 & 2, Audition and Selection.
- Offers four independent stereo outputs and four mono outputs plus two telephone outputs.
- Four wire intercom for external communications, built-in microphone addressable to all outputs.
- CUE Intercom talk-back return.
- Unique Master with independent Input/Output capability with independent level and Cue control. This module (BC-2560C) allows emission or network, feeds retransmissions independent from other console inputs and outputs.
- Three sets of headphone controls; two for studio and control with level control and the third one for the control operator.
- Independent sends from all channels to Master 1 & 2, Auxiliary 1 & 2, Telephone and Audition.
- Full control of External Telephone Hybrid. Phone audition for inputs and send control.
- The BC-2500 easily interfaces with all AEQ Digital Phone Hybrids which are able to multiplex from two to sixteen phone lines.
- Offers Three-Band EQ, a parametric EQ in Mid-range. Independent EQ bypass in each channel.
- Maximum audio monitoring control for the Control and Studio rooms for Master 1 & 2, Exterior 1 & 2 and Audition.
- Input for time Synchronization tones with On/Off control in the Monitoring/Control Module.

TECHNICAL SPECIFICATIONS

Mic Inputs:

- Transformer balanced.
- Input impedance: > 3 KOhms.
- Input range: -91 dBV .. -17 dBV @ Fader max., Master= 0. .
- Equivalent noise: -122 dBV, 200 Ohms, 20 Hz - 20 KHz.
- Fader gain: -∞ / +12 dB.

Line Inputs:

- Transformer balanced.
- Input impedance: > 6K5 Ohms.
- Input range: -34 dBV .. +25 dBV @ Fader max., Master= 0.
- Fader gain: -∞ / +12 dB.

Input/Output of Insertion en BC-2511:

- Output impedance: < 1K8 Ohms.
- Output nominal level: -6 dBV.
- Input 0 dBV, Fader= 0, Master= 0, Master Output +4 dBV.
- Input impedance: > 50 KOhms.
- Input range: -12 dBV .. +25 dBV @ Fader max., Master= 0. .

BC-2533 Telephone Hybrid Interface

Input/Output:

- Output impedance: < 100 Ohms.
- Output level: +4 dBV, Master Fader = 0, Channel fader= 0, Maximum phone send to channel, Gain 2533 maximum.
- Input impedance: > 8 KOhms.
- Input range: -18 dBV .. +25 dBV @ Fader max., Master= 0. .

External Inputs 1 and 2:

- Electronic symmetry.
- Input impedance: > 5 KOhms.
- Inpt level: +1 dB for 4 dBV in monitors output.

Input Switch:

- Impedance: > 6K5 Ohms.
- Input level: 0 dBV for +4 dBV in output.

Send and Ecualization:

- Auxiliary 1 send : -∞ / +12 dBV. -∞ / 0 dBVin pre-fader.
- Auxiliary 2 send: -∞ / +12 dBV. -∞ / 0 dBV in pre-fader.
- Phone 1 send: -∞ / +12 dBV.
- Phone 2 send: -∞ / +12 dBV.
- Master 1 send : -∞ / +12 dBV.
- Master 2 send: -∞ / +12 dBV.

Ecualization:

- Bass: +/-16 dB to 150 Hz.
- Treble: +/-16 dB to 10 KHz.
- Midrange: Parametric 300 Hz / 6 KHz . +/- 9 dB.

Stereo Master and Auxiliary Outputs:

- 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 1.5 dB: 20 Hz-20 KHz.
- Absolute output noise:
 - 78 dBm. 20 Hz - 20 kHz, Master Fader=0dB. (All send off).
 - 95 dBm. 20 Hz - 20 kHz, Master Fader=-70dB. (All send off).

Control/Estudio Monitor Outputs:

- Oputput impedance of control monitor: < 75 Ohms.
- Output level: +4 dBV. Monitor level max.
- Master Outputs: +4 dBV.
- Absolute noise:< -72 dBV.
- Headphones output impedance: < 70 Ohms.
- Output level: +20 dBV. Level H/phones max.

Intercom:

- Input impedance: > 4 KOhms.
- Input sensitivity:10 dBV.
- Output impedance: < 75 Ohms.
- Output level: +25 dBV. max.

Power Requirements:

- 110/220 V AC, +6% -10%, 50/60 Hz. 220 VA.
- Signalling voltage: +24 VDC, 30 VA.

Dimensions:

- Width:990 mm (38.97")
- Height: 375 mm (14.76").
- Depth: 590 mm (23.22")