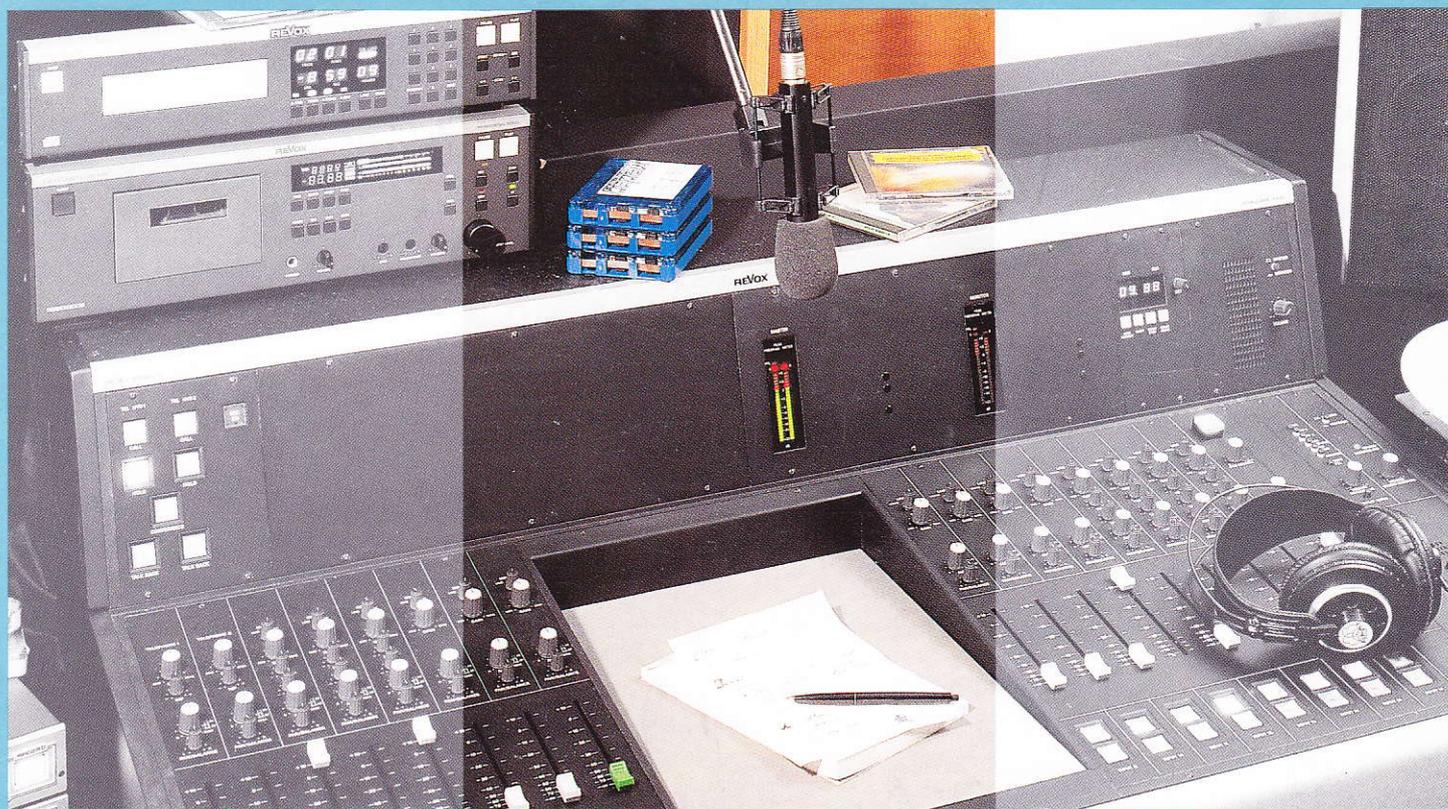


MB 16 • BROADCAST CONSOLE

PROFESSIONAL SERIES



- truly affordable console for cost effective broadcasting
- 16 inputs: line, microphone, telecom
- space for various options

REVOX®

The REVOX MB 16 • Broadcast Console

GENERAL

Applications: due to its compact design, transportability and ease of use, the REVOX MB 16 is eminently suited for

- Community radio stations
- Installation in OB-vans
- In- or outside PA-system

Ease of use: minimum of training and familiarization required

- Functional layout minimizes erroneous operation
- High-contrast, illuminated keys (PFL + ON) for reliable operation
- Lighting of actuated keys provides additional feedback

Ergonomic design: due to the esthetic implementation of all ergonomic and functional aspects, even professionals under stress will feel comfortable with

REVOX MB 16 Broadcast Console

- Meter section is offset to the right where it is not concealed by the microphone
- Script area in the center of the mixing console provides the presenter/DJ individual work and storage surface

Custom adaptation/options: the REVOX MB 16 is flexible

- Space for up to 10 EU-standard PCBs
- Blanks next to the master inserts offer various possibilities for integrating cart-starts, remote controls etc.
- Metering options are available
- Remote channel control (VCA interface)

Maintenance: the REVOX MB 16 designed to reduce maintenance

- Simple and quick access to all circuit modules
- Very short MTTR (mean time to repair) cuts service costs

Safety

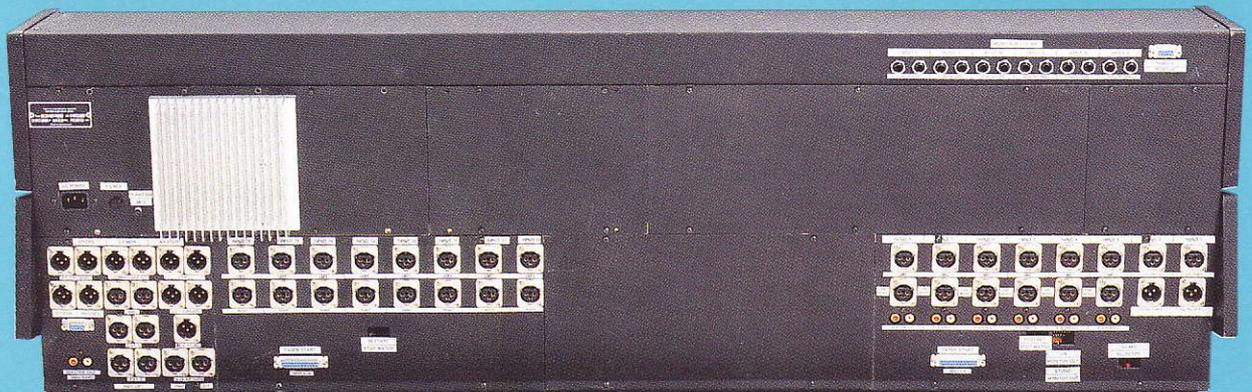
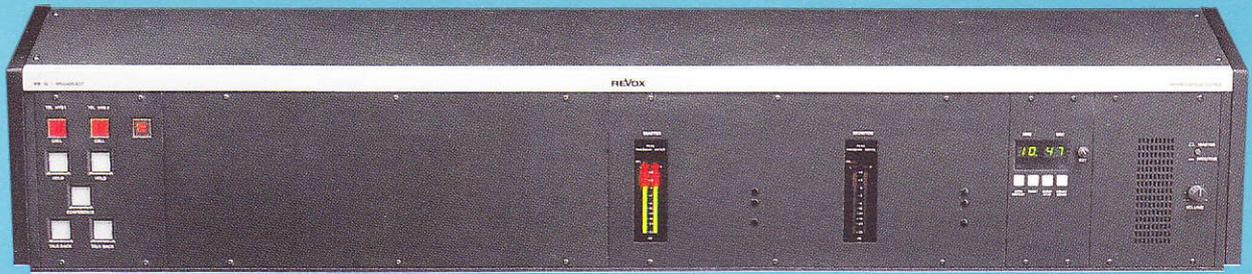
- Twin power supplies, supply failure affects only every second module

Meter panel

- Controls for 2 telephone hybrids for standard 2-line PBX conference, "hands-free" talk shows, etc.
- Space for 10 EU-PCB inserts permit optional fitting of accessories such as plasma displays, etc.
- Separate stereo PPM bar-graphs for master and monitor, options for VU, BBC or other
- Stopwatch for on-air timing operation start, stop, reset, elapsed time, count-down, faderstart
- Speaker switchable (master/monitor) for comprehensive monitoring facility

Back Panel (inputs)

- Six input units INPUT MIC/LINE input switch and gain selector on control panel
- Eight input units LINE MONO/STEREO mono/stereo and gain selector on control panel
- Two input units TELEPHONE for connecting and controlling up to two telephone hybrids.
- Six SEND/RETURN mono inserts optional flexibility to add limiters, compressors, special effects, etc.
- AUX RETURN direct stereo access to master bus
- Input modules individually protected failure blocks only individual inputs
- Phantom 48V supply direct use of static microphones



for professional heavy-duty use.

Control Panel

- 16 input units generously sized for DJ on-air operation
- Protected on-air button/master fader lock, easy conversion for use as production mixer
- Fader start ON/OFF button remote start on all input devices
- Monitor muting DJ microphone operation in control room
- Built-in Mic/Speaker direct talkback and monitoring, studio linking

Back Panel (outputs)

- Balanced studio monitor output stereo monitoring in studio room
- Studio headphone jack moderator/guest is linked to control room
- Talkback from studio -20dB minimum distraction from program execution
- 3 Control room monitor outputs
2 x stereo external (balanced)
1 x stereo on-air
- Transformer balanced outputs no interferences, galvanical insulation
- Logging output stereo line to logging system
- AUX SEND Output access in mono to AUX console bus
- Master OUT unbalanced stereo output permits e.g. cassette monitor recording

TECHNICAL DATA

| | | | |
|-----------------------|--|-------------------------|-----------------|
| Inputs | Impedance: | MIC: | > 1.2 kOhms |
| | | LINE/STEREO/AUX RETURN: | 47 kOhms |
| | Control range for 0 dB on peak-meter: | GAIN MIC: | -60 ... 0 dBu |
| | | GAIN LINE: | -20 ... +16 dBu |
| | | AUX RETURN: | -4 ... +22 dBu |
| | Maximum input level (THD <1%): | MIC: | 0 dBu |
| | | LINE, AUX RETURN: | +26 dBu |
| Outputs | Impedance: | MASTER, balanced: | < 50 Ohms |
| | | MASTER, unbalanced: | < 1 kOhm |
| | | AUX SEND: | < 50 Ohms |
| | Output level at 0 dB on the peak-meter: | | |
| | AUX SEND | | +6 dBu |
| | MASTER to TRANSMITTER (isolation transf.): | | +6/+10/+14 dBu |
| | MASTER to LOGGING (transformerless): | | +6/+10/+14 dBu |
| | MASTER, unbalanced (adjustable with jumper): | | 0.775/1.25/2 V |
| | CR MONITOR/STUDIO MONITOR | | max. +16 dBu |
| | STUDIO PHONES | | +6 dBu |
| Maximum output level: | MASTER, balanced: | +24 dBu | |
| | MASTER, unbalanced: | +20 dBu | |

Frequency response

| | | |
|-------------------------------------|-----------------------------------|--------|
| Linear (HF, LF in center position): | 20 Hz ... 20 kHz | ±1 dB |
| BASS CUT: | 12 dB/octave, -3 dB point @ 70 Hz | |
| HF (Treble): | Attack point: | 1 kHz |
| | Boost/cut @ 20 kHz: | ±15 dB |
| LF (Bass): | Attack point: | 1 kHz |
| | Boost/cut @ 20 kHz: | ±15 dB |

Signal-to-noise ratio (all values are weighted "A")

| | |
|-----------------------------------|---------------------------------|
| 1 x MIC (termination = 200 Ohms): | > 63 dB @ -60 dBu input voltage |
| 1 x LINE (termination = 1 kOhm): | > 86 dB @ 0 dBu input voltage |
| MASTER fader closed: | > 100 dB |

Harmonic distortion

| | |
|-------------------------------|--|
| MIC (-20 dBu input): | < 0.03% @ 1 kHz / < 0.15%, 30 Hz ... 15 kHz |
| LINE (0 dBu in / +6 dBu out): | < 0.03% @ 1 kHz / < 0.15% @ 20 Hz ... 20 kHz |

Crosstalk (all values @ 10 kHz)

| | | |
|------------------------|-------------------|----------|
| Channel separation | STEREO left/right | > 50 dB |
| Switch-off attenuation | INPUT | > 86 dB |
| | MASTER | > 100 dB |

Indicators (stereo peak meters with 24-segment bargraph)

| | |
|---------|------------------------------------|
| Ranges: | +6 ... +1 dB in 1 dB steps, red |
| | 0 ... -6 dB in 1 dB steps, green |
| | -7 ... -18 dB in 2 dB steps, green |
| | 19 ... -33 dB in 3 dB steps, green |

Power supply (voltage selectable by internal jumper)

115/230 V AC, 50 ... 60 Hz, max. 200 W
detachable power cord, 3-prong IEC-connector with protective ground

Weight:

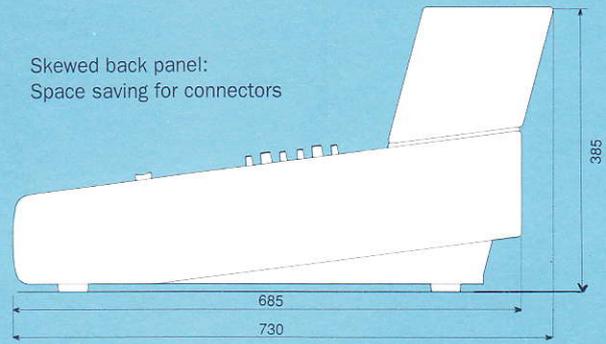
net 58 kg

Dimensions (W x H x D):

1192 x 385 x 730 (mm)

Subject to change

Dimensions



Overall width 1192 mm
Optional: side panels for table top applications

Block Diagram

