

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

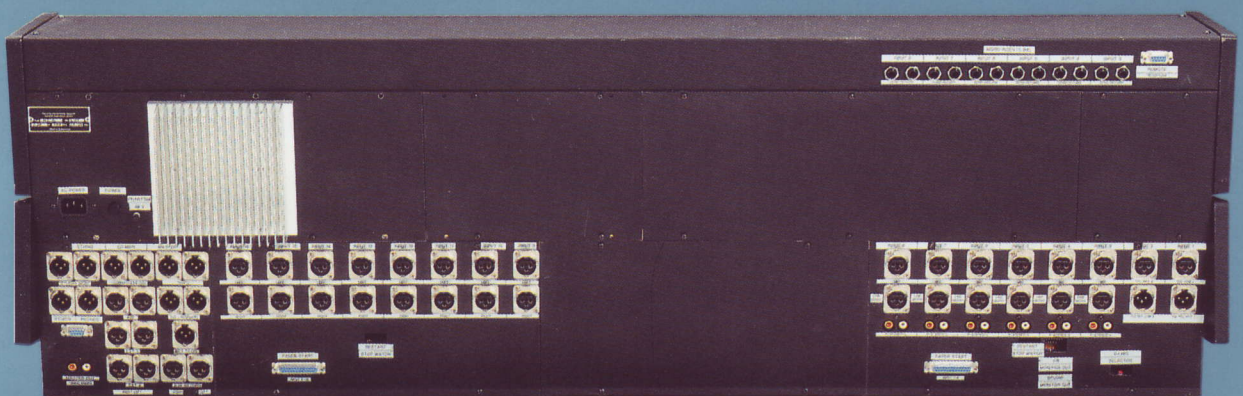
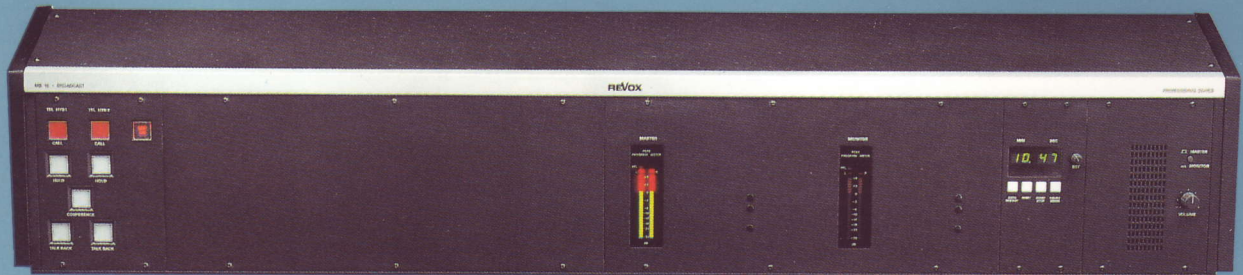
- Twin power supplies, supply failure affects only every second module

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
Outputs		AUX RETURN:	-4 ... +22 dBu
	Maximum input level (THD $\leq 1\%$):	MIC:	0 dBu
		LINE, AUX RETURN:	+26 dBu
	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
Frequency response	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 Hz:	± 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:

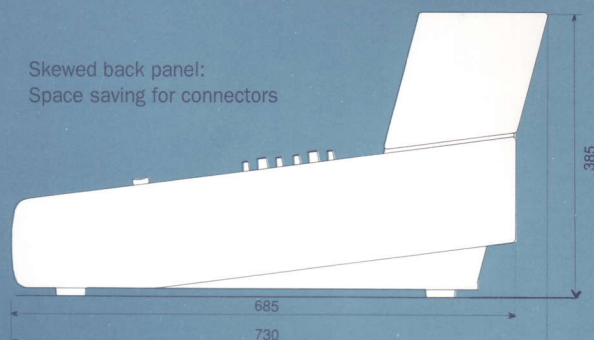
net 58 kg

Dimensions (W x H x D):

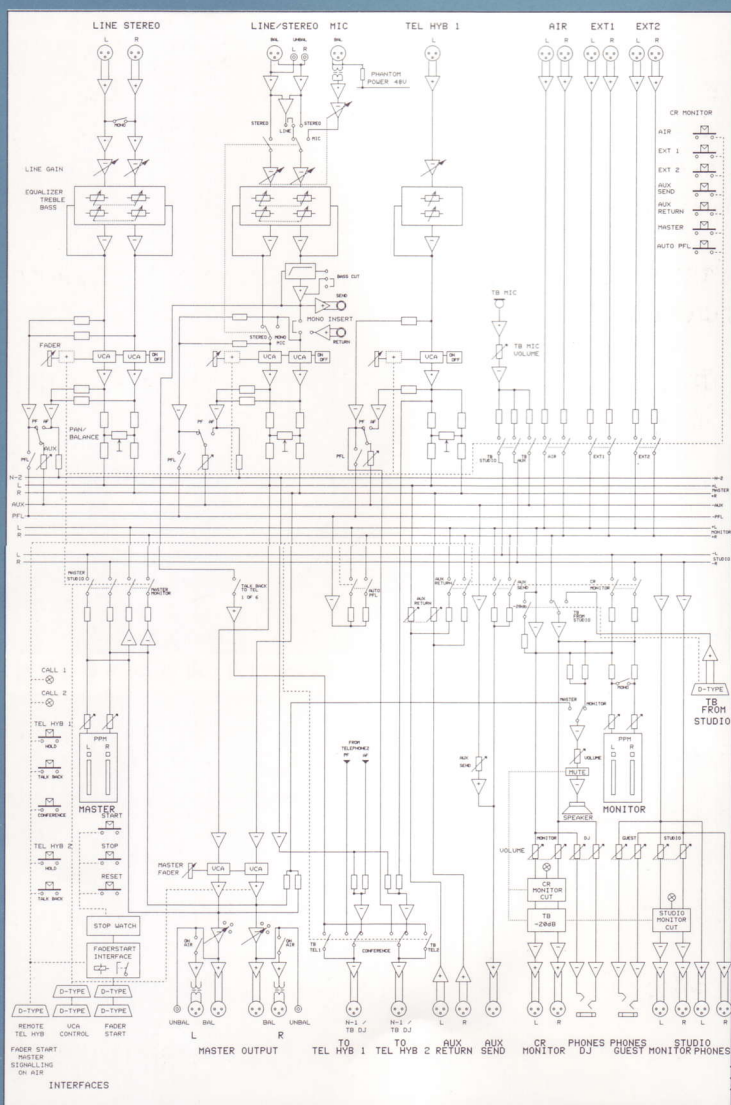
1192 x 385 x 730 (mm)

Subject to change

Dimensions



Block Diagram



REVOX®

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