

### B77 MK III Stereo Tape Recorder

With the new B77 MK III Stereo Tape Recorder, the Revox development team has redesigned the iconic B77 product and improved it with significant innovations. All audio electronics have been optimized using the components and simulation options available today. Proven components have been retained, such as improved original Revox tape heads with a significantly longer service life and the unique Revox motors. All new details, such as the audio technology for even better sound reproduction and recording quality, the precision-manufactured, high-quality tape heads, the pressure roller, a digital counter, playback capability for all common tape standards, XLR IN/OUT, and a wide range of connection and optional expansion options have been perfected by our developers, technicians, and designers.

The B77 MK III is manufactured at the Revox factory in Villingen (Germany).



Front view B77 MK III



Back view B77 MK III

### TECHNICAL DATA (measured across tape)

|                                    |   |  |                          |  |                    |
|------------------------------------|---|--|--------------------------|--|--------------------|
| Order no.                          | 117703300   |  | Crosstalk                | Stereo   | better than -58 dB |
| Dimensions H x W x D (mm)          | 414 x 452 x 207   |  | Erase depth <sup>3</sup> | better than -78 dB   |                    |
| Weight (kg)                        | 18  |  | Inputs per channel       |  |                    |
| Tape transport mechanism           | 3-motor drive; 2 AC wound motors; 1 AC capstan motor, electronically controlled                         |  | Position LO              | 0.15 mV / 2.2 kohms for 50 ... 600 ohms microphones  |                    |
| Tape speeds                        | 19 cm/s and 38 cm/s, electronically switched; variable by ±7 semitones with external tone motor control |  | Position HI              | 2.8 mV / 110 kohms for 50 ... 20 kohms microphones   |                    |
| Pitch fluctuations                 | 19 cm/s<br>38 cm/s  | better than 0.08%<br>better than 0.04%   | AUX                      | 40 mV / 220 kohms<br>Overload margin on all inputs: 40 dB  |                    |
| Reel size                          | up to 26.5 cm (10.5") diameter  |  | Outputs per channel      |  |                    |
| Equalization NAB                   | 19 cm/s<br>38 cm/s  | 50 µsec / 3180 µsec<br>50 µsec / 3180 µsec   | OUTPUT                   | 1.55 V at +6 VU (asymmetrical/symmetrical)   |                    |
| Equalization CCIR                  | 19 cm/s<br>38 cm/s  | 70 µsec<br>35 µsec   | PHONES                   | 3 V output voltage/ Ri 82 ohms suitable for phones 32 - 600 ohms   |                    |
| Frequency response at -20 dBu      | 19 cm/s<br>38 cm/s  | 30 Hz ... 20 kHz + 2/-2 dB<br>50 Hz ... 16 kHz ± 1.5 dB<br>30 Hz ... 22 kHz + 2/-2 dB<br>30 Hz ... 20 kHz ± 1.5 dB | Connectors for           | XLR (line-in/out balanced; RCA adapter unbalanced),<br>2x 6.3 jack microphone,<br>2x 6.3 jack headphones,<br>DIN 4-pin for VariSpeed connection,<br>DIN 9-pin for remote control |                    |
| Peak recording level               | 514 nWb/m corresponds to 6 dB above 0 VU  |  | Electric current supply  | 108 ... 240 V ± 10% switchable: 100 V, 120 V, 140 V, 200 V, 220 V, 240 V<br>50 ... 60 Hz without switching<br>max. 73 watts  |                    |
| Level metering                     | VU-Meter as per ASA-standard, with LED peak level indicators  |  | Mains fuse               | 100 .. 140 V: 1 AT<br>200 .. 240 V: 0.5 AT   |                    |
| Distortion <sup>1</sup>            | 19 cm/s<br>38 cm/s  | <0.3%<br><0.24%  |                          |  |                    |
| Signal to noise ratio <sup>2</sup> | 19 cm/s<br>38 cm/s  | better than -70 dB<br>better than -70 dB   |                          |  |                    |

Unless otherwise specified, measured across tape at 510 nWb/m

<sup>1</sup> measured at 0 VU (257 nWb/m)

<sup>2</sup> measured at 2,5% distortion

<sup>3</sup> measured at 19 cm/s