

Technical Data Tape Recorder M 063 H5 1/4" Stereo

August 2021

Tape transport	<p>Processor-controlled and 3-motor direct drive with 1/4" tape width</p> <p>Reel motors: 2 brushless DC pancake motors with rotor angle controlled sinusoidal commutation</p> <p>Electric brakes controlled by tape tension control Capstan motor: 1 brushless DC pancake motor with rotor angle controlled sinusoidal commutation</p> <p>Pinch roller by servo drive</p> <p>Hour meter</p>
Operating position	<p>All angles between horizontal and vertical</p>
Tape path	<p>Ball bearings to the left and right of the tape head assembly, one tape stabilizing roller left and right each, damping element with deflection pulley left and right outside, flutter roller between recording and playback head</p>
Tape speed	<p>19.05 cm/s and 38.1 cm/s and 76.2 cm/s Tolerance of the set speed: < 0,04 % Variable tape speed: +/- 10 % at all speeds Variable tape speed at editing: - 95 cm/s to + 95 cm/s</p>
Wow & Flutter	<p>< 0,03 % at 76 cm/s < 0,05 % at 38 cm/s < 0,08 % at 19 cm/s</p>
Tape slip	<p>< 0,08 % at every reel size</p>
Reel size	<p>Up to a maximum of 30 cm reels, fastening via screw clamps</p>
Spooling time	<p>3 speeds adjustable: 2 m/s, 5 m/s, 10 m/s</p>
Tape transport electronic	<p>Processor-controlled, 2 sensors for tape tension, speed sensor on left deflection roller</p> <p>Remote control with infrared remote control optional Real-time counter via high-resolution incremental encoder in time format hrs / min / sec, 100 / sec, Autolocator function</p> <p>Autostop can be switched off during play and winding by leader tape</p>
Audio electronic	<p>One main board each for recording and playback, all amplifiers as well as the erase oscillator on separate printed SMD circuit boards</p> <p>Separate power supply for playback and recording amplifiers with an accuracy of < 0.1 % and an interference voltage < 12 μV (at full load)</p> <p>Separate power supply for erase oscillator, 155 KHz erase frequency</p> <p>Equalization playback switchable CCIR / NAB Equalization recording CCIR only</p> <p>High end headphone amplifier separately adjustable for headphones with an impedance of 16 - 2000 ohms</p>

Tape heads	3 tape head design: erase head, recording head and playback head stereo with 2.75 mm track width with full track erase head
Equalizing	Playback: 19.05 cm/s: NAB (IEC 2) 50 -3180 μ s / CCIR (IEC 1) 70 μ s 38.1 cm/s: NAB (IEC 2) 50 -3180 μ s / CCIR (IEC 1) 35 μ s 76.02 cm/s: NAB (IEC 1) 35 μ s / AES (IEC 2) 17.5 μ s Record: 19.05 cm/s: CCIR (IEC 1) 70 μ s 38.1 cm/s: CCIR (IEC 1) 35 μ s 76.02 cm/s: AES (IEC 2) 17.5 μ s
Frequency response (Measured with RTM SM 900)	9,5 cm/s: 40 Hz - 20000 Hz +/- 2 dB 19 cm/s: 40 Hz - 20000 Hz +/- 1 dB 38 cm/s: 40 Hz - 22000 Hz +/- 1 dB
VU-Meter	35 mm x 60 mm processor controlled with peak hold function and digital peak value led at + 3 dB and + 6 dB overload indicator
Total harmonic distortion (measured with RTM SM 900)	1 kHz at tape flux 320 nWb/m by 38 cm/s < 0,7 %
Signal to Noise Ratio (measured with RTM SM 900)	> 68 dB at tape flux 320 nWb / m at 38 cm / s over tape
Crosstalk	> 62 dB at 1000 Hz with 2.75 mm track width
Erase ratio	> 72 dB at 1000 Hz, 38 cm/s
Inputs	Inputs electronically unbalanced via XLR or unbalanced via RCA, calibrated switchable to uncalibrated +6 dB via level control One large input sensitivity control per channel + one master with tandem potentiometer with +/- 6dB effectivity
Outputs	Outputs electronically balanced via XLR with spindle trimmer -10 dB to + 25 dB adjustable + unbalanced via RCA, calibrated switchable to uncalibrated +12 dB via level controller
Power supply	Connection via IEC connector 3-pole Protection class 1 240 V / 50 Hz European standard 98 W maximum power consumption
Dimensions	480 mm x 500 mm x 250 mm (W x H x D)
Weight	30 KG