

STUDER D827 MCH DASH Tape Recorders 24/48 Tracks

Technical Data

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| Recording Format: | DASH-F |
| Number of Tracks: | Digital Audio: D827-48 48 Tracks D827-24 24 Tracks (upgradeable to 48 tracks) Auxiliary Tracks: D827 MCH Reference Track TC Track 2 CUE Tracks |
| Sampling Rate: | 48 kHz, 44.1 kHz, 44.056 kHz (switchable) |
| Tape Speed: | 30 ips (76.2 cm/s) @ $f_s=48$ kHz |
| Varispeed: | ± 12.5 % |
| Recording Time: | app. 60 min. (14" reel, 2680 m) @ $f_s=48$ kHz app. 65 min. (14" reel, 2680 m) @ $f_s=44.1$ kHz |
| Winding Time: | app. 3 min (14" reel, 2680 m) |
| Quantisation: | 16 bit linear |
| Frequency Response: | 20 Hz...20 kHz , ± 0.3 dB ¹⁾ |
| THD + N: | < -90 dB (-30 dBFS, Emphasis off) ¹⁾ < -96 dB (-30 dBFS, Emphasis on) ¹⁾ |
| Crosstalk Attenuation: | > 88 dB ¹⁾ |
| Dynamic Range: | > 93 dB (Emphasis off) ¹⁾ > 97 dB (Emphasis on) ¹⁾ |
| Emphasis: | 50 μs / 15 μs (selectable for individual channels) ²⁾ |
| TC-Generator: | SMPTE Standard 24, 25, 29.97 D, 29.97 ND, 30 D, 30 ND Frames/s |
| Analog Inputs: | Digital Audio Tracks: ²⁾ transformer balanced, impedance >10 kOhm input level: + 14 ... + 28 dBu (0.1 dB steps) CUE-Tracks: transformer balanced, impedance >10 kOhm input level: + 14 ... + 24 dBu (0.1 dB steps) |
| Analog Outputs: | Digital Audio Tracks: ²⁾ electronically balanced, impedance <50 Ohm output level: + 14 ... + 28 dBu (0.1 dB steps) CUE-Spuren: electronically balanced, impedance <50 Ohm output level: + 14 ... + 24 dBu (0.1 dB steps) |
| Digital Inputs: | AES/EBU, XLR , 3 pin female MADI, BNC SDIF-2, D-sub , 50 pin male ²⁾ |
| Digital Outputs: | AES/EBU, XLR , 3 pin male MADI, BNC SDIF-2, D-sub , 50 pin female ²⁾ |
| Clock Inputs: | Wordclock, TTL level, BNC Sector Clock, TTL level, BNC Video Sync (with loop-through), BNC Square Wave (with loop-through), BNC |
| Clock Outputs: | Wordclock, TTL level, BNC Sector Clock, TTL level, BNC |
| Other Inputs: | TC (SMPTE Standard) (with loop-through), XLR / 3 pin female RT (Reference Track) (with loop-through), TTL level, BNC |

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| Other Outputs: | TC (SMPTE Standard) XLR / 3 pin male RT (Reference Track) TTL level, BNC |
| Control Ports: | REMBUS (with loop-through) balanced, Studer Standard (for Autolocator, Channel Controller and Parallel Audio Interface) Level Display balanced, Studer Standard (for Remote Level Display) Setup Control balanced RS-422 (for Setup Handler and Service Access) ES-Bus (with loop-through) balanced Parallel Remote & Synchronizer GPI Master Tallies Input Terminal unbalanced (for Service Access) |
| Power Supply: | 115 V , voltage range 90...127 V, 50/60 Hz 230 V , voltage range 180...254 V, 50/60 Hz |
| Power Consumption: | 800 W (48 CH, all options fitted, PLAY) 1500 W Peak |
| Safety and EMC: | Safety Standards EN 60065 / 1993 IEC 65 / 1985 EMC Standards EN 50081-1 / 1992 EN 50082-1 / 1992 |
| Operating Temperature: | + 5 ... + 40 °C |
| Humidity: | 20 % ... 90 % , (non condensing) |
| Dimensions: | 880 (W) x 1000 (H) x 800 (D) mm |
| Weight: | app. 240...260 kg (depending on options fitted) |

¹⁾ Measurement Conditions: A/D-D/A, 20 Hz...20 kHz, $f_s = 48$ kHz

²⁾ available as an option

Ordering Informationen

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| D827-48-1/2" (Base Version) DASH Tape Recorder 48 Tracks | 60.218.20620 |
| D827-24/24-1/2" (Base Version) DASH Tape Recorder 24 Tracks (upgradeable to 48 tracks) | 60.218.20621 |
| D827-24/48-1/2" (Base Version) DASH Tape Recorder 24 Tracks, equipped with 48 track headblock, (upgradeable to 48 tracks) | 60.218.20622 |
| D827 MCH Upgrade Kit 24/24-48 Modification Kit to upgrade D827-24/24-1/2" to D827-48 | on request |
| D827 MCH Upgrade Kit 24/48-48 Modification Kit to upgrade D827-24/48-1/2" to D827-48 | on request |

Options

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| D827 MCH A/D 8CH A/D Converter, for 8 channels | 20.863.552.00 |
| D827 MCH Noise Shaper Noise Shaper Option for A/D Converter, for 8 channels | 20.863.553.00 |
| D827 MCH D/A 8CH D/A Converter, for 8 channels | 20.863.554.00 |
| D827 MCH SDIF-2 Interface 24CH SDIF-2 Multichannel-Interface, for 24 channels | 20.863.555.00 |
| D827 MCH NEW Record Head 48CH NEW Record Head, for confidence playback, for D827-48 and D827-24/48 | 20.863.556.00 |
| D827 MCH NEW Record Head 24CH NEW Record Head, for confidence playback, for D827-24/24 | 20.863.557.00 |
| D827 MCH Sound Memory 45s RAM Memory for sound editing, 45s total storage capacity, splittable across up to 4 tracks | 20.863.558.00 |
| D827 MCH Sound Memory 180s RAM Memory for sound editing, 180s total storage capacity, splittable across up to 4 tracks | 20.863.559.00 |
| D827 MCH 19" - Rack Mounting Kit for mounting of 19" racks up to 3HU in rear connector field | 20.863.560.00 |

Accessories

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| Channel Remote Controller D827-48 | 1.328.700.00 |
| Channel Remote Controller D827-24 | 1.328.705.00 |
| Autolocator D827 MCH incl. Sound Memory -Controller | 1.328.710.00 |
| Setup-Handler application program for Macintosh computers, for parameter backup and remote setup, incl. 3m connection cable | 21.863.995.00 |
| Remote Level Display D827-48 incl. 15m connection cable | 21.328.730.00 |
| Remote Level Display D827-24 incl. 15m connection cable | 21.328.735.00 |
| Parallel Audio Interface D820 MCH / D827 MCH incl. 15m connection cable | 21.328.630.00 |
| REMBUS-connection cable 0.6m for REMBUS remotes | 1.862.420.00 |
| REMBUS-connection cable 15m for REMBUS remotes | 1.862.421.00 |
| SERBUS-connection cable 15m for Remote Level Display | 1.862.422.00 |
| Remote Stand for Channel Remote Controller, Autolocator and Sound Memory Controller | 1.328.192.00 |

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