

DM-3200

Digital Mixing Console



The DM-3200 is a well-equipped 48-channel professional digital console. It offers sixteen busses, eight auxes, dynamics and effects, automation via motorised faders and USB connectivity. Its user interface includes 16 rotary encoders with LED indicators to display mixer settings at a glance. Up to 6.1 surround panning is available, and an optional surround monitoring interface card offers multi-channel monitor and downmix capabilities.

When used with our optional FireWire interface card, the DM-3200 becomes a highly powerful all-in-one computer interface, control surface and mixing console, making it ideal for professional recording, post-production, film scoring and installation applications.

Options

MU-1000: Meterbridge with Timecode display

IF-AN/DM: 8-channel analogue I/O card

IF-TD/DM: 8-channel TDIF-1 I/O card

IF-AD/DM: 8-channel ADAT I/O card

IF-AE/DM: 8-channel AES/EBU card

IF-SM/DM: Surround monitor card

IF-FW/DM MKII: FireWire interface card

IF-AV/DM: Aviom® interface card

IF-CB/DM: CobraNet® interface card

Main Features

Mixer section

- 48 mixing channels (32 channel inputs plus 16 returns)
- 16 bus outputs, eight Aux outputs, stereo output, 32 direct outputs
- Four-band EQ and dynamics on each input channel (Ch 1–32)
- Dynamics on each output 16 busses, Aux sends, and Stereo output)
- Built-in effects processing
- On board TC Reverb
- 16 plus one touch-sensitive motorised faders
- SEL/SOLO/MUTE keys and rotary encoder with ring LED on each channel strip (16 channel strips)
- Five mixer layers (Ch 1–16, Ch 17–32, Return 1–16, Bus 1–16, Aux 1–8) and Control layer with banks
- Built-in Talkback microphone
- Flexible I/O routing
- Surround mixing capability
- On-board automation
- Total recall by project management

- Two XLR AES/EBU digital I/O
- Two Coaxial SPDIF digital I/O
- ADAT I/O (8 channels)
- Three TDIF-1 I/O (24 channels)
- Two headphone outputs
- RCA Time Code input
- Word Sync In, Out/Thru
- MIDI In, Out, Thru/MTC Out
- Two expansion slots (support for optional FireWire, ADAT, AES/EBU, Analogue, and TDIF cards)

General

- Sampling frequency: 44.1 kHz, 48 kHz, 88.2 kHz or 96 kHz, Resolution: 24 bit
- The same mixing specifications in 48-kHz and 96-kHz modes
- Dedicated Cascade port for cascading of two DM-3200 mixers
- Optional Meter bridge (MU-1000)
- DAW interconnection via optional FireWire card (IF-FW/DM MKII)
- Transport Control
- Surround monitoring with optional card (IF-

Inputs and outputs

- 16 XLR balanced MIC inputs with phantom power and 20dB PAD
- 16 TRS balanced Line inputs
- 16 TRS unbalanced inserts
- Four assignable sends/returns
- XLR balanced stereo output
- RCA unbalanced Studio output
- RCA unbalanced 2-track inputs
- TRS balanced Control Room output

SM/DM)

- CompactFlash card for saving / loading internal data
- Includes «Tascam Mixer Companion» software (Windows XP and Mac)
- Driverless USB connection to computer
- Backup/restore data via USB
- GPI functionality (8 outputs)
- Foot switch connector for hands-free operation of selected functions
- RS-422 serial port for control of external equipment

Specifications

Digital audio I/O

DIGITAL INPUTS (1, 2)	2 x XLR-type female connectors or 2 x RCA pin jacks (selectable)
Input impedance	110 Ω (XLR), 75 Ω (RCA)
Data format	AES3-1992 or IEC60958 (automatically detected)
Word length	24-bit, switchable sampling frequency conversion available
DIGITAL OUTPUTS (1, 2)	2 x XLR-type male connectors 2 x RCA pin jacks
Output impedance	110 Ω (XLR), 75 Ω (RCA)
Data format	AES3-1992 or IEC60958 (software selectable)
Word length	24-bit
TDIF-1(1, 2, 3)	3 x 25-pin D-sub female connectors (metric lock screws)
Data format	Conform to TDIF-1 standard
Word length	24-bit
ADAT IN/OUT	2 x Lightpipe optical connectors
Data format	Conform to ADAT OPTICAL specifications
Word length	24-bit
Sampling frequencies	Internal 44.1 kHz/48 kHz, 88.2 kHz/96 kHz (high sampling frequencies) External $\pm 6.0\%$
Signal delay	
LINE IN to STEREO OUTPUT, Fs = 48 kHz	< 1.7 ms
LINE IN to STEREO OUTPUT, Fs = 96 kHz	< 0.85 ms

Miscellaneous I/O

WORD SYNC IN	BNC connector, switchable 75 Ω termination, TTL level
WORD SYNC OUT/THRU	BNC connector, switchable between through and output, TTL level
MIDI IN, OUT, THRU/MTC OUT	3 x 5-pin DIN connectors, conform to MIDI specifications
USB	USB 1.1 B type connector (12 Mbps)
TIME CODE IN	RCA pin jack, conforms to SMPTE specifications
FOOT SW	6.3-mm mono jack
TO METER	25-pin female D-sub connector (non-metric lock screws), for use with the optional MU-1000
RS-422 (for Sony 9-Pin)	9-pin female D-sub connector (non-metric lock screws), wired to RS-422 standards
GPI (for Machine start)	9-pin female D-sub connector (non-metric lock screws) wired for GPI control
Wiring	Pin 1 = GP11, Pin 2 = GPI2, Pin 3 = GPI3, Pin 4 = GPI4, Pin 5 = GND, Pin 6 = GPI5, Pin 7 = GPI6, Pin 8 = GPI7, Pin 9 = GP18

Equalization

EQ switch	On/Off
HIGH filter	
Gain	± 18 dB
Resolution	0.5dB
Frequency	31 Hz to 19 kHz
Q	0.27 to 8.65
Type	Hi-shelving, Peak, LPF
HI MID filter	
Gain	± 18 dB
Resolution	0.5dB
Frequency	31 Hz to 19 kHz

Q	0.27 to 8.65
Type	Peak, Notch
LO MID filter	
Gain	±18dB
Resolution	0.5dB
Frequency	31 Hz to 19 kHz
Q	0.27 to 8.65
Type	Peak, Notch
LOW filter	
Gain	±18dB
Resolution	0.5dB
Frequency	31 Hz to 19 kHz
Q	0.27 to 8.65
Type	Low-shelving, Peak, HPF

All filters are fitted with "gain flat" switches

System performance

THD (maximum level, 1 kHz, TRIM minimum)	
LINE IN to INSERT SEND, 20 Hz – 22 kHz	< 0.005%
LINE IN to STEREO OUTPUT	< 0.008%
Frequency response (nominal level, 1 kHz, TRIM minimum)	
MIC/LINE to INSERT SEND, 44.1/48 kHz	20 Hz – 20 kHz, 0.5dB/-1.0dB
MIC/LINE to INSERT SEND, 88.2/96 kHz	20 Hz – 40 kHz, 0.5dB/-1.5dB
MIC/LINE to STEREO OUTPUT, 44.1/48 kHz	20 Hz – 20 kHz, 0.5dB/-1.0dB
MIC/LINE to STEREO OUTPUT, 88.2/96 kHz	20 Hz – 40 kHz, 0.5dB/-1.5dB
Noise level (20 Hz – 22 kHz, TRIM max, 150 Ω)	
MIC in (PAD off) to INSERT SEND (A-weighted)	< -128dBu (EIN)
STEREO OUT (no input assigned)	< -83dBu
ASSIGNABLE RETURN to ASSIGNABLE SEND	< -85dBu
2TR IN to CR OUTPUT (CR max, 0dB)	< -78dBu
2TR IN to STUDIO OUT (STUDIO OUT 0dB)	< -88dBu
Crosstalk (1 kHz)	
STEREO/BUSS/AUX/MONITOR OUTPUTS	> 90dB

Power supply and other specifications

Voltage requirements	120 VAC, 60 Hz
	230 VAC, 50 Hz
	240 VAC, 50 Hz
Power consumption	65 W
Overall dimensions (w x d x h) including rest	700mm x 824mm x 230mm
Weight	24 kg
Displays	Backlit 320 x 240 LCD with contrast control, 2 x 12-segment LED meters
Faders	17 x 100-mm stroke, motor-driven touch-sensitive faders
Supplied accessories	Power cord, Quick Reference guide, 32 MB CompactFlash memory card, USB cable, CD-ROM, Warranty card

Design and specifications subject to change without notice.

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