

## DM-4800

### Digital Mixing Console



The DM-4800 is the latest member of Tascam's DM digital mixer series. With 64 mixing channels, 24 busses and 12 auxes it is currently one of the most powerful portable digital consoles at all. At the same time, it offers lots of convenience: The so-called full-channel section, for instance, allows all channel parameters like dynamics, EQ settings, aux levels and panning to be manipulated with dedicated controls. 24 motorised channel faders and 24 rotary encoders with ring LED indicators additionally give access to virtually any module setting available. With its comprehensive feature set, multiple routing and expansion capabilities and its ease of use, the DM-4800 is the ideal mixing console for any modern recording studio as well as for live mixing and recording applications.

### DM-4800 (English)

#### 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

- 64 mixing channel modules (48 full-function channels plus 16 «simple» channels)
- 24 busses, 12 aux sends, 48 direct outputs, one stereo bus
- Four-band EQ and dynamics on each full-function channel
- Full dynamics processing with compressor/expander and gate on each full-function channel
- Two high-quality digital effects including reverb by TC Works
- Dedicated full-channel section allows direct control of the selected module's parameters
- 24 plus one touch-sensitive motorised faders
- 24 rotary encoders with ring LED indicators
- Five mixer layers (Ch. 1–24, Ch. 25–48, Ch. 49–64, Busses 1–24, Auxes 1–12) and a Remote layer for DAW control
- Built-in Talkback microphone
- Flexible I/O routing
- Three surround matrices
- On-board automation
- Total recall by project management

- Two coaxial SPDIF digital I/O
- ADAT I/O (8 channels)
- Three TDIF-1 I/O (24 channels)
- Four expansion slots (support for optional FireWire, ADAT, AES/EBU, Analogue, and TDIF cards)
- Two sets of control-room monitor outputs with six assignable source selects
- Two headphone outputs
- BNC Word Clock input and output
- RCA Time Code input
- MIDI In, Out, Thru/MTC Out

##### General

- Sampling frequency: 44.1, 48, 88.2, 96kHz, Resolution: 24-bit
- The same mixing specifications in 48k and 96k modes
- Cascade option for combining two DM-4800 mixers
- DAW interconnection via optional FireWire card (IF-FW/DM MKII)
- Transport Control
- Surround monitoring with optional expansion card (IF-SM/DM)

### Inputs and outputs

- 24 XLR balanced MIC inputs with phantom power and 20dB PAD
- 24 TRS balanced Line inputs
- 24 TRS unbalanced inserts
- Eight assignable sends/returns
- XLR balanced stereo output
- RCA unbalanced 2-track input
- Two XLR AES/EBU digital I/O
- CompactFlash card for saving / loading internal data
- Includes Tascam Mixer Companion software (Windows XP and Mac OS X)
- 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 inputs and outputs

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(1,2,3)	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 ±6.0%
Signal delay	
LINE IN to STEREO OUTPUT, Fs = 48 kHz	< 1.8 ms
LINE IN to STEREO OUTPUT, Fs = 96 kHz	< 0.9 ms

### Other inputs and outputs

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 = GPI 1, Pin 2 = GPI 2, Pin 3 = GPI 3, Pin 4 = GPI 4, Pin 5 = GND, Pin 6 = GPI 5, Pin 7 = GPI 6, Pin 8 = GPI 7, Pin 9 = GPI 8

### Equalization

EQ switch	On/Off
HIGH filter	
Gain	±18dB
Resolution	0.5dB
Frequency	31 Hz to 19 kHz
Q	0.27 to 8.65
Type	Hi-shelving, Peak, LPF
HI MID filter	
Gain	±18dB
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 LARGE/SMALL OUTPUT (max, 0dB)	< -78dBu
2TR IN to STUDIO OUT (0dB)	< -84dBu
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	90W
Overall dimensions (w x d x h) including rest	933mm x 824mm x 230mm
Weight	35 kg
Displays	Backlit 320 x 240 LCD with contrast control, 2 x 12-segment LED meters
Faders	25 x 100-mm stroke, motor-driven touch-sensitive faders
Supplied accessories	Power cord, Quick start guide, CompactFlash memory card, USB cable, TMCompanion CD-ROM, Warranty card

Design and specifications subject to change without notice.

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