

Overview

A DM3 Dante-equipped compact digital mixing console features versatile capabilities and portability for a wide range of applications. Offering superb sound quality, fast and easy setup and operation, and professional-level features.



Features

- 8 + 1 fader configuration
- 9-inch multi-touch screen
- Input mixing channels: 16 mono + 1 stereo + 2 FX return
- Buses: 1 Stereo, 6 Mix, 2 FX, 2 Matrix (Supports Input to Matrix)
- Local I/O: 16 Mic/Line (12 XLR + 4 XLR/TRS Phones Combo) inputs, and 8 (XLR) outputs
- Dante: 16 inputs, and 16 outputs
- USB: 18 inputs, and 18 outputs
- 18 Effects, and GEQ on Mix 1-6 and Stereo channels
- Sampling rate: 48kHz/96kHz
- Intuitive user interface optimized for multi-touch screen operation.
- "QuickPro Presets™" provide instant access to pro sound setups.
- DAW Remote for smooth DAW operation with physical controllers
- Seamlessly integrated remote control and offline editing via DM3 Editor.
- Wireless remote control of a DM3 is possible via an iPad app.
- Individual wireless Mix/Matrix mixing can be simultaneously performed by up to 10 different iPad, iPhone, iPod touch, or Android devices.
- Direct 2-track recording to standard USB flash drives, or serious multitrack recording to a DAW via Dante or USB.
- Dimensions (W x H x D): 320 mm x 140 mm x 455 mm (12.6" x 5.6" x 18.0")
- Net weight: 6.5 kg (14.3lb)

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Functional Specifications

Mixing Capacity	Input Mixing Channels	16 mono, 1 stereo, 2 FX return	FX	Number of FXs	2
	Mix Buses	6		Number of FX Programs	18
	Matrices	2 (Input to Matrix supported)	GEQ	Available Channels	Stereo, MIX1-6
	Stereo Buses	1	Dante	Number of I/O Channels	16 in / 16 out
	FX Buses	2		Dante Patch from Console	No
Local Connectors	Cue Buses	1	Recording	USB Memory Recording	Yes
	Analog Input	16 mic/line (12 XLR + 4 XLR/TRS Phones Combo)		Multitrack Recording	Yes (via USB/Dante)
	Analog Output	8 (XLR)	Broadcast Functions	5.1 Surround Panning	No
	Dante I/O	Primary / Secondary		Surround Monitor	No
	Expansion Slot	No		Mix Minus	No
	Word Clock I/O	No		L-Mono / R-Mono / LR-Mono	No
	MIDI I/O	No (MIDI protocol supported)	Monitor	Solo Mode	No
	GPI	No		Oscillator	Sine Wave / Pink Noise / Burst Noise
	USB	1 (File Save/Load, 2 Track Rec/Play)	Other Functions	Port to Port	No
	USB to Host	1 (18 in/18 out audio interface, MIDI)		GPI	No
	Ethernet	Yes		MIDI	Yes (USB MIDI)
	Foot Switch	No		OSC Server	Yes
Scene Memory	Phones	1		Wireless Mic Monitoring	No
	DC power IN	1 (XLR 4pin)		DAW Remote	Yes
	Number of Scenes	200		RTA	Yes
	Recall Safe	Yes		Output Port Delay	No
	Focus Recall	No		Cascade	No
	Fade Time	Yes (0s ~ 60s)		User Level	Yes
	Preview	No		Help File	No
	Selective Load / Save	No	User Interface	Display	9-inch multi-touch screen
Input Channel Functions	Global Paste	No		Faders	8 + 1
	Tactile Control Keys	No (on-screen)		Channel Encoder	No
	Gain Compensation	No		Channel Name / Color Display	Yes (On screen)
	Digital Gain	Yes (-24dB ~ +24dB)		Custom Fader Banks	Yes
	HPF	20Hz ~ 600Hz		User Defined Keys	6
	PEQ	4 Band Full PEQ (RTA overlay support)		User Defined Knobs	No
	Dynamics 1	Gate / Ducking		Touch and Turn Knob	Yes
	Dynamics 2	Comp		Monitor Level Knob	No
	Input Delay	Yes (0ms ~ 1000ms)	Software	iPad Stay	No
	Pan	Center Nominal		Rack-mounting	Yes
	DCA Group	No		Editor	DM3 Editor
	MUTE Group	6		StageMix	DM3 StageMix
Output Channel Functions	Number of Inserts	1 (V2.0 or later)		MonitorMix	Yes
	Automixer	Yes (Up to 8ch, V3.0 or later)		ProVisionaire Control/ Touch	Yes
	Direct Out	No		Nuendo Live: Control integration	No
	Quick Pro Preset	Yes		Console File Converter	No
	PEQ	4 Band Full PEQ (RTA overlay support)			
	GEQ	Yes			
	Dynamics 2	Compressor			
	Output Channel Delay	Yes (0ms ~ 1000ms)			
	MUTE Group	6			
	Number of Inserts	1 (V2.0 or later)			
	Quick Pro Preset	Yes			

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General Specifications

Mixing Capacity	Input channels	16 Mono, 1 Stereo, 2 FX Return
	Buses	1 Stereo, 6 Mix, 2 FX, 2 Matrix (Supports Input to Matrix)
Local Connectors	Analog IN	16 Mic/Line (12 XLR + 4 XLR/TRS Phones Combo)
	Analog OUT	8 (XLR)
	Dante I/O	2 (etherCON : Primary/Secondary), 16 In/Out
	Ethernet	1 (RJ-45)
	USB to Host	1 (USB Type-B)
	USB to Device	1 (USB Type-A)
	Phones	1 (TRS Phones)
User Interface	DC power IN	1 (XLR 4pin)
		9-inch multi-touch screen 9 x 100 mm motorized fader (Resolution=1024 steps) (8 channels + 1 main) 1 x Rotary Encoder (Touch and Turn)
Recording & Playback	PC (via USB to Host) (USB 2.0)	Recording 18 track Playback 18 track
	USB storage device	Recording 2 track (USB hard disk/SSD/flash memory) Playback 2 track (USB hard disk/SSD/flash memory)
Sampling rate		96 kHz/48 kHz
Signal delay		Less than 1.3 ms (CH INPUT to OMNI OUT @Fs=96 kHz)
Frequency Response		+0.5, -1.0 dB 20 Hz-20 kHz, reference to the nominal output level@1 kHz, INPUT to OMNI OUT
THD *1		Less than 0.01% 20 Hz - 20 kHz@+4 dBu into 10 kΩ, INPUT to OMNI OUT, Input Gain= Min
Hum & Noise *2		-126 dBu typ., Equivalent Input Noise, Input Gain= Max. -84 dBu, Residual output noise, ST main off
Dynamic Range		110 dB typ., DA Converter, 106 dB typ., INPUT to OMNI OUT, Input Gain=Min.
Crosstalk @1 kHz *3		-100 dB, adjacent INPUT/OMNI OUT channels, Input Gain= Min.
Power Requirements		DC24 V/2.5 A, PA-L500 (100 V-240 V, 50 Hz/60 Hz)
Power Consumption		43 W
Dimensions (W x H x D)		320 mm × 140 mm × 455 mm
Weight		6.5 kg
Temperature Range		Operating Temperature Range: 0 to 40°C Storage Temperature Range: -20 to 60°C
Accessories		Owner's Manual, Power Adapter (PA-L500, including power cord), DOWNLOAD INFORMATION

Options	Rack mount kit RK-DM3
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*1 Total Harmonic Distortion is measured with a -18 dB/octave filter@80 kHz.

*2 Hum & Noise are measured with an A-Weight filter.

*3 Crosstalk is measured with a -30 dB/octave filter@22 kHz.

Analog IN Standards

INPUT 1-16

Input impedance		10 kΩ
Source impedance		50-600 Ω Mics & 600 Ω Lines
Input level (GAIN : +64 dB)	Sensitivity*1	-80 dBu (78 μV)
	Specified level	-60 dBu (0.775 mV)
	Max non-clip level	-40 dBu (7.75 mV)
Input level (GAIN : 0 dB)	Sensitivity*1	-16 dBu (123 mV)
	Specified level	+4 dBu (1.23 V)
	Max non-clip level	+24 dBu (1.23 V)
Connectors		CH 1-12: XLR-3-31 *3 (Balanced) CH 13-16: Combo Jack *3, *4 (Balanced)

*1 Sensitivity is the input level required to output +4 dBu (1.23 V) or the specified level, when all faders and level controls are set to maximum.

*2. The XLR-3-31 connector is a balanced type (1=GND, 2=HOT, 3=COLD).

*3. The TRS phone connector is a balanced type (Tip=HOT, Ring=COLD, Sleeve=GND).

Analog OUT Standards

OMNI OUT 1-8

Output impedance		75 Ω
Load impedance		10 kΩ Lines
Output level	Specified level	+4 dBu (1.23 V)
	Max non-clip level	+24 dBu (12.3 V)
Connectors		XLR-3-32 *1 (Balanced)

*1. The XLR-3-32 connector is a balanced type (1=GND, 2=HOT, 3=COLD).

PHONES

Output impedance		10 Ω
Load impedance		40 Ω Phones
Output level	Specified level	2.5 mW
	Max non-clip level	100 mW
Connectors		Stereo Phone Jack (TRS) *1 (Unbalanced)

*1. Stereo Phone Jack (TRS) connector is an unbalanced type (Tip=LEFT, Ring=RIGHT, Sleeve=GND).

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Digital IN/OUT Standards

Dante Primary/Secondary

Format	Dante
Data Length	24-bit/32-bit
Level	1000BASE-T
Audio	16 ch input/16 ch output
Connectors	etherCON (CAT5e) x 2

USB TO HOST (for DAW)

Format	USB 2.0
Data Length	32-bit
Level	USB 2.0
Audio	18 ch input/18 ch output
Connectors	USB Type-B

USB TO DEVICE (for 2Tr REC/PLAY)

Format	USB 2.0
Data Length	24-bit
Level	USB 2.0
Audio	Playback: MP3 or WAV file data Record: MP3 or WAV file data
Connectors	USB Type-A

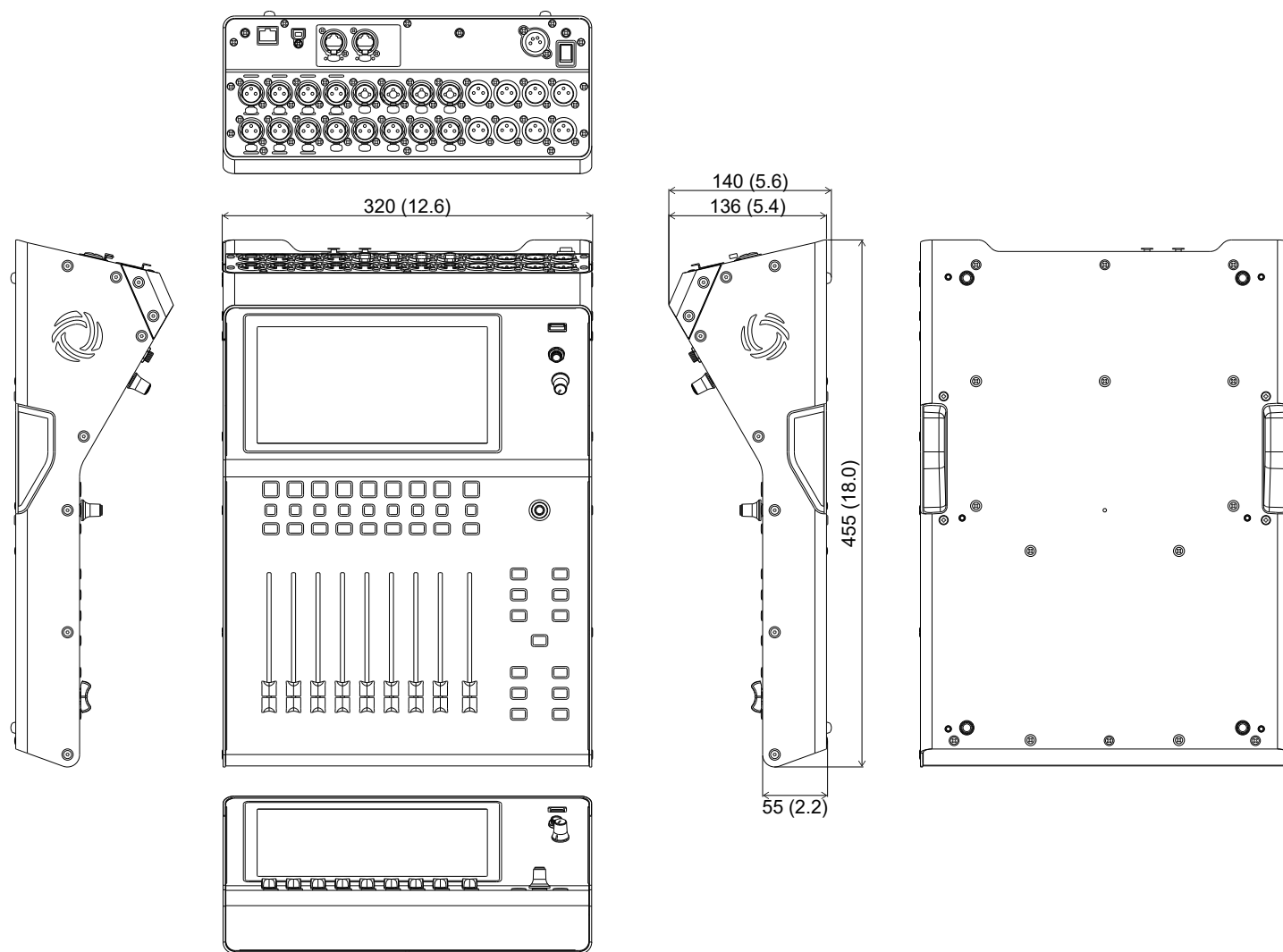
Control IN/OUT Standards

NETWORK connectors

Format	IEEE802.3
Level	10BASE-T/100BASE-TX
Connectors	RJ-45

Dimensions

Unit: mm (inch)



Options

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|-----------------------|--------------------------|
| • Rack Mount Kit | RK-DM3 |
| • I/O Rack | Tio1608-D |
| • I/O Rack | Tio1608-D2 |
| • Powered Loudspeaker | DZR315-D / DZR315-DW |
| • Powered Loudspeaker | DZR15-D / DZR15-DW |
| • Powered Loudspeaker | DZR12-D / DZR12-DW |
| • Powered Loudspeaker | DZR10-D / DZR10-DW |
| • Powered Loudspeaker | DXS18XLF-D / DXS18XLF-DW |
| • Powered Loudspeaker | DXS15XLF-D / DXS15XLF-DW |

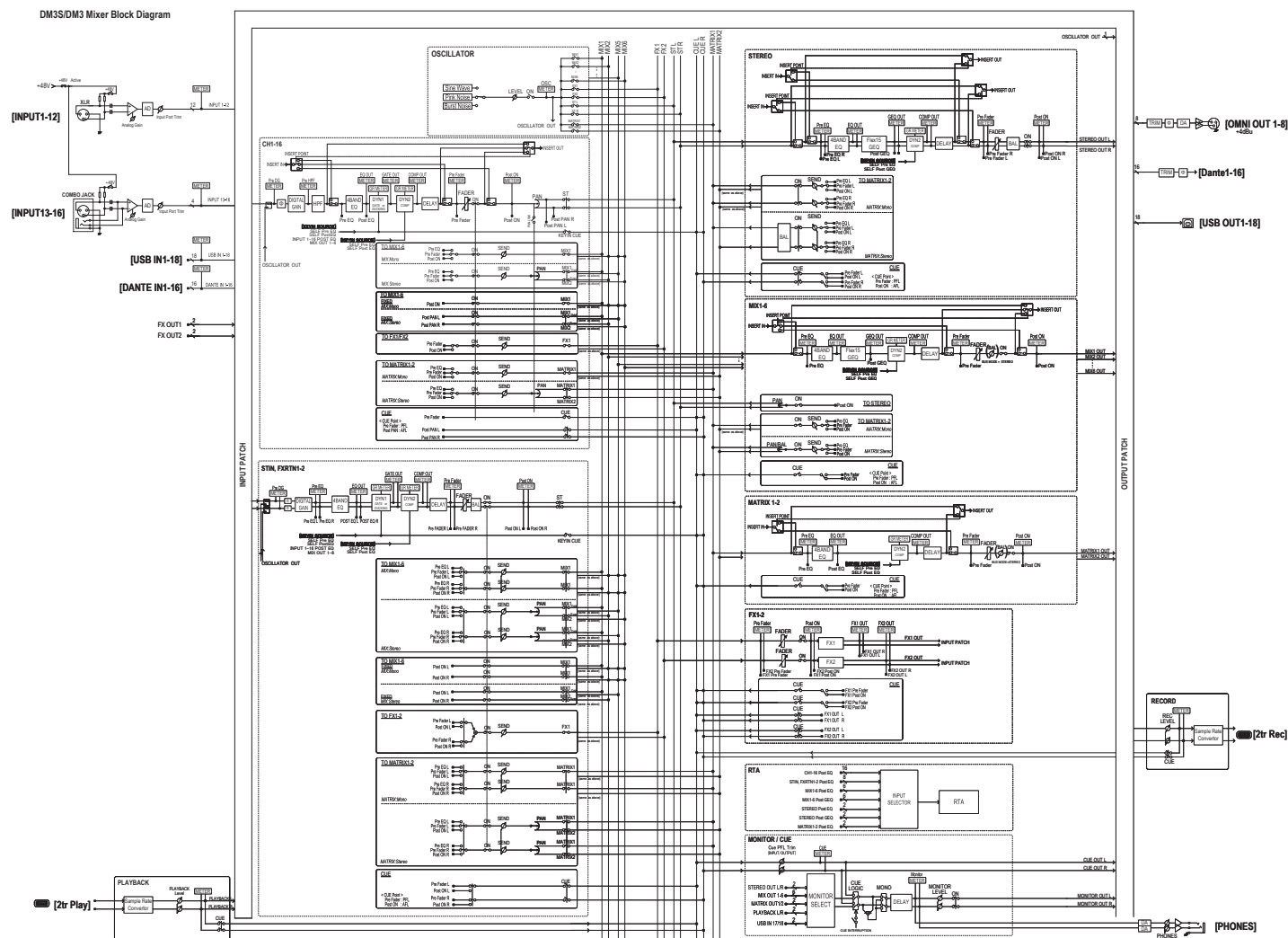
Software

- DM3 Editor
- DM3 StageMix
- MonitorMix
- Cubase AI
- VST Rack Elements

Architectural and Engineering Specifications for DM3

The Yamaha DM3 digital mixing console shall be compact and versatile, suited to a variety of applications including live sound reinforcement, live streaming, corporate events, home or studio recording, and fixed installations. It shall be intuitive and easy to use, equipped with a 9-inch multi-touch screen and 8 + 1 faders. DM3 shall provide a mixing capacity of 16 mono and 1 stereo input channels, 2 stereo effects returns, 6 mix buses, 2 effects sends, 1 stereo bus and 2 matrix buses. It shall support the routing of input channels direct to matrix. The internal signal processing shall allow operation at sample rates of 96kHz and 48kHz. The rear panel shall include XLR connections for 16 mic/line inputs with recallable pre-amp settings, 4 of which are combined with TRS connections. It shall have 8 XLR connections for OMNI OUT. There shall be an RJ-45 connection for networking, USB-A for computer connection capable of 18 channel multi-track recording, and a 4-pin socket for 24V power supply. The rear panel Dante connections shall support 16 channels in and out for networking with various additional Dante devices. It shall include an AUTO SETUP feature for certain devices including Yamaha Tio1608-D2 i/o rack and DZR-D and DXS-XLF-D powered loudspeakers. On the top panel there shall be a USB-B socket for portable storage device capable of stereo audio recording and playback, and a ¼ inch TRS headphone socket. The top panel shall also feature a TOUCH AND TURN rotary encoder, 6 FADER BANK keys, a HOME key and 6 USER DEFINED KEYS. Above each of the 9 100mm motorized faders there shall be illuminated keys for ON, CUE and SEL. DM3 shall be compatible with a range of software applications including DM3 Editor, DM3 StageMix, MonitorMix and ProVisionaire, and it shall provide remote control capability for Digital Audio Workstation software such as Cubase and Nuendo. An optional rack-mount kit shall be available. Dimensions shall be 320 (W) x 140 (H) x 455 (D) mm, and weight shall be 6.5kg.

Block Diagrams



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