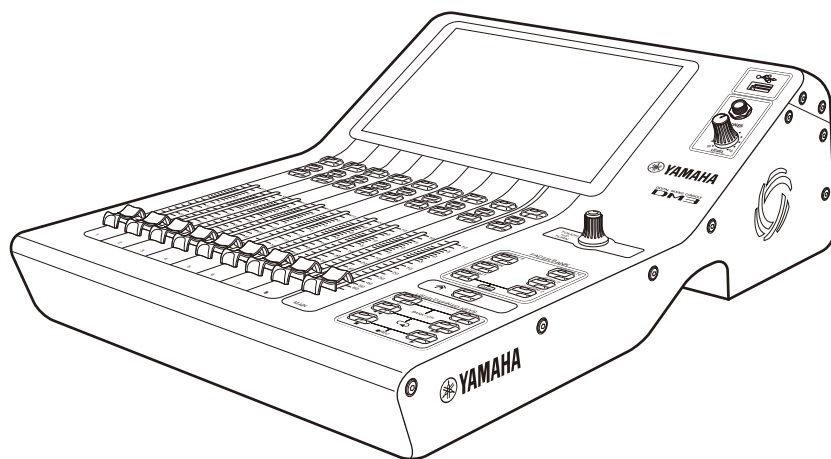




DIGITAL MIXING CONSOLE

DM3 DM3 STANDARD (DM3S)



Reference Manual

EN

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 (DM3 only)	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)
	DC power IN	1 (XLR 4pin)
User Interface		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 Adaptor (PA-L500, including power cord), DOWNLOAD INFORMATION
Options		Rack mount kit RK-DM3

*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 k Ω
Source impedance		50-600 Ω Mics & 600 Ω Lines
Input level (GAIN : +64 dB)	Sensitivity*1	-80 dBu (78 μ V)
	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 k Ω 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).

Digital IN/OUT Standards

Dante Primary/Secondary (only DM3)

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