Overview

The DM5 is a Dante-equipped versatile digital mixing console with unparalleled sound quality, ease of operation, and high reliability that make it perfect for a wide range of applications. The DM5 is configured with 26 faders and a 2 x 13.3” + 2 x 4.3” multi-touch screen with glass keys.





Features

- Input mixing channels: 60 mono
- Buses: 24 Mix + 12 Matrix + 2 Stereo
- Display: 13.3” multi-touch screen x 2, 4.3” multi-touch screen x 2
- Faders: 26 (12 + 1 + 12 +1)
- Analog I/O: 32 inputs / 16 outputs
- Dante: 64 in / 64 out
- Slot: PY Slot x 1
- USB Audio Interface: 18 in / 18 out
- Power consumption: 130 W
- Dimensions (W x H x D): 826 mm x 235 mm x 441 mm (32.5” x 9.3” x 17.4”)
- Net Weight: 21.5 kg (47.4 lb)

Specifications 1/3

Functional Specifications

Mixing Capacity	Input Channels	60 mono
	Mix Buses	24
	Matrices	12
	Stereo Buses	2
	Mono Buses	1 (Stereo B can be changed)
	Cue Buses	1
I/O Connectors	Analog Input	32
	Analog Output	16
	Dante	Primary / Secondary
	Expansion Slot (PY Slot)	1
	MIDI	No (MIDI protocol supported)
	USB TO DEVICE	2 (USB Type-C for File Save/Load, and 2 Track Rec/Play)
	USB TO HOST	1 (USB Type-C, USB 2.0)
	Ethernet	Yes
	Meter Bridge	On screen
	Phones	1
	AC	1 (V-Lock Type)
Scene Memory	Number of Scenes	500
	Recall Safe	Yes
	Focus Recall	Yes
	Fade Time	Yes
	Selective Load / Save	Yes
	Global Paste	Yes
Input Channel Functions	Input A/B	Yes
	Gain Compensation	Yes
	Digital Gain	Yes (-96 dB to +24 dB)
	Attenuator	Yes (-96 dB to +24 dB)
	HPF	20 Hz to 2,000 Hz, -6/-12/-18/-24 dB/oct Selectable
	PEQ	4 Band Full PEQ (4 algorithms, RTA overlay supported)
	Dynamics 1	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking / FET Limiter / Diode Bridge Comp
	Dynamics 2	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking / FET Limiter / Diode Bridge Comp
	Input Delay	Yes (0 ms to 1,000 ms)
	Pan	Center Nominal / LR Nominal
	DCA Group	12 (Output DCA supported)
	DCA Rollout	Yes
	MUTE Group	12
	Number of Inserts	4 slots on 1 insert point
	Dan Dugan Automixer	Yes (12ch, expandable up to 64 channels with Dugan Automixer License)
	Direct Out	Yes
Output Channel Functions	PEQ	8 Band Full PEQ
	GEQ	Virtual Rack (EQ Rack)
	Dynamics 1	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking / FET Limiter / Diode Bridge Comp
	Output Channel Delay	Yes (0 ms to 1,000 ms)
	MUTE Group	12
	Number of Inserts	4 slots on 1 insert point

Premium Rack	Number of DSP Resources	0 (Up to 32 with PY-DSP)
	Mountable Plug-ins	RND Portico5033 / RND Portico5043 / Portico 5045 / U76 / Opt-2A / Comp276/ Buss Comp 369 / MBC4 / DaNSe / EQ-1A / Equalizer601 / Dynamic EQ / Dynamic EQ4 / REV-X / OpenDeck / Analog Delay / Max100 / Vintage Phaser /Dual Phaser / HQ. Pitch
Effect Rack	Number of DSP Resources	16
	Number of Effect Types	43
EQ Rack	Number of DSP Resources	24
	Mountable Devices	31BandGEQ / Flex15GEQ / 8Band PEQ (RTA overlay supported)
Dante	Number of I/O Channels	64 in / 64 out
	Number of I/O devices that can be discovered from the console	127
	Number of I/O devices that can be mounted	24
	Number of I/O devices with HA remote control	24
	Dante Patch from Console	Yes
USB to Host	Number of Audio I/O Channels	18 in / 18 out
	USB MIDI	Yes
Monitor	Solo Mode	Yes
	Oscillator	Sine Wave 1ch / Sine Wave 2ch / Pink Noise / Burst Noise
Other Functions	Port to Port	Yes
	GPI	Yes (with PY-MIDI-GPI)
	MIDI	Yes (USB MIDI)
	OSC Server	Yes
	DAW Remote	Yes
	Nuendo Live: Control Integration	Yes
	Virtual Soundcheck	Yes
	Wireless Mic Monitoring	Yes
	RTA	Yes
	Delay Compensation	Yes
	Output Port Delay	Yes (Up to 20 ports)
	Sub In	Yes
	User Levels	Yes
	Channel Link	Yes
	Temporary Channel Link	Yes
	Multi Language Channel Names	Yes
	Mix/Matrix to Input	Yes
	Assist	Yes (HA / Naming / Comp / Fader)

Specifications 2/3

User Interface	Displays	13.3" multi-touch x 2, 4.3" multi-touch x 2
	Faders	26 (12 + 1 + 12 +1)
	Channel Name / Color Displays	No (on-screen)
	Custom Fader Banks	Yes
	Shift Keys	Yes (on-screen)
	User Defined Keys	Glass Keys: 12 (6 + 6), Screen: 12 (6 keys x 4 bank)
	User Defined Knobs	Yes (by 4 encoders next to the screen)
	Touch and Turn Knobs	Yes
	Rack Mountable	No
Software	Editor	DM Editor (Win/Mac)
	StageMix	DM StageMix
	MonitorMix	Yes
	Console File Converter	Yes
	ProVisionaire Control PLUS/Kiosk	Yes
Dimensions	W	826 mm (32.6")
	H	235 mm (9.3") *including the rubber feet
	D	441 mm (17.4")
Net weight		21.5 kg (47.4 lb)
Included Accessories		Read This First, AC power cord, Dust cover, Cable hook, Nuendo Live and VST Rack Elements Download Information

General specifications

Sampling frequency	External clock	Frequency range	48 kHz/96 kHz ±200 ppm
		Jitter of PLL *1	3 ns (Max.)
	Internal clock	Frequency	48 kHz / 96 kHz
		Accuracy	±50 ppm
		Jitter *2	1.0 ns @ Fs = 96 kHz, 2.0 ns @ Fs = 48 kHz
Signal delay			Less than 1.5 ms @ Fs = 96 kHz, 2.0 ms @ Fs 48 kHz (INPUT to OMNI OUT)
User interface			100 mm touch-sensitive motorized fader (resolution = 1024steps) x 26 13.3" multi-touch screen with Glass key x 2 4.3" multi-touch screen with Glass key x 2 Touch sensitive knobs in the Selected Channel section
Power requirements			100 - 240 V, 50/60 Hz
Power consumption			130 W
NC value *3			FAN Speed Low: NC = 20/High: NC = 25
Operating temperature range			0 - 40 °C
Storage temperature range			-20 - 60 °C
Options			Pico-YGDAI card

*1 Input clock jitter must be 1ns or less.
*2 Measured at the AES/EBU OUT.
*3 Measured 30 cm horizontally away and vertically up from the unit (front pad).

Audio Specifications

At the time of measurement, all LEVELs are set to nominal. Output impedance of the signal generator is 150 Ω.

Frequency response

@ 20 Hz - 20 kHz, reference to the nominal output level @ 1 kHz

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-32	OMNI OUT 1-16	10 kΩ	GAIN: +64 dB	-1.5	0.0	0.5	dB

Total harmonic distortion

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-32	OMNI OUT 1-16	10 kΩ	+4 dBu @ 20 Hz - 20 kHz, GAIN: +64 dB			0.15	%
INPUT 1-32	OMNI OUT 1-16	10 kΩ	+4 dBu @ 20 Hz - 20 kHz, GAIN: -0 dB			0.05	%
INPUT 1-32	PHONES	40 Ω	50 mW @ 1 kHz, Phones level control: max.			0.15	%

* Total Harmonic Distortion is measured with a 48 dB/oct filter @ 80 kHz.

Hum & noise*2

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-32	OMNIOUT 1-16	10 kΩ	Rs = 150 Ω, GAIN: +64 dB Master fader at nominal level and one CH input fader at nominal level.		-128 EIN *1		dBu
					-64		dBu
INPUT 1-32	OMNI OUT 1-16	10 kΩ	Rs = 150 Ω, GAIN: 0 dB		-85	-83	dBu
-	OMNI OUT 1-16	10 kΩ	Residual output noise; Output channel is off.		-90	88	dBu
-	PHONES	40 Ω	Residual output noise; PHONES LEVEL: Min.			-94	dBu

*1 EIN = Equivalent Input Noise
*2 Hum & noise is measured with an A-weighted filter.

Dynamic range

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-32	OMNI OUT 1-16	10 kΩ	AD + DA, GAIN: 0 dB		109		dB
-	OMNI OUT 1-16	10 kΩ	DA Converter		114		dB

* Dynamic range is measured with an A-weighted filter.

Crosstalk (@ 1 kHz)

from/to	to/from	Conditions	Min.	Typ.	Max.	Unit
INPUT n	OMNI IN (n - 1) or (n + 1)	INPUT 1-32, adjacent inputs, Gain MIN (CH N ± 1) -> MIN (CH N)			-100	dB
OMNI OUT n	OMNI OUT (n - 1) or (n + 1)	Input to output			-100	dB

* Crosstalk is measured with a 30 dB/oct filter @ 22 kHz.

Specifications 3/3

Analog Input Characteristics*3*4

Terminal	GAIN	Actual load impedance	For use with nominal	Input level			Connector
				Sensitivity *1	Nominal	Max. before clip	
INPUT 1-32	+64 dB	10 kΩ	50 - 600 Ω Mics 600 Ω Lines	-80 dBu (0.078 mV)	60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type (Balanced) *2
	0 dB			-16 dBu (245 mV)	+4 dBu (2.45 V)	+30 dBu (24.5 V)	

*1 Sensitivity is defined as the input level required to produce an output of +4 dBu (1.23 V) or the nominal output level when all LEVELs are set to maximum.
*2 1 = GND, 2 = HOT, 3 = COLD
*3 0 dBu = 0.775 Vrms
*4 INPUT feature +48 V DC phantom power, which is switchable for each terminal individually.

Analog Output Characteristics*5

Terminal	Actual Source impedance	For use with nominal	Max. output level select SW*1	Output level		Connector
				Nominal	Max. before clip	
OMNI OUT 1-16	75 Ω	10 kΩ Lines	+24 dBu (default)	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR-3-32 type (Balanced)*2
PHONES	10 Ω	40 Ω Phones	-	60 mW*3	100 mW	Stereo Phone Jack (TRS) (Unbalanced)*4

*1 The unit features an internal switch to change the maximum output level.
*2 1 = GND, 2 = HOT, 3 = COLD
*3 These measurements were obtained when the PHONES A,B LEVEL knobs were set 10 dB lower than the maximum.
*4 Tip = LEFT, Ring = RIGHT, Sleeve = GND
*5 0 dBu = 0.775 Vrms

Digital I/O Characteristics

Terminal	Format	Data length	Level	Audio	Connector
Dante Primary, Secondary	Dante	24 bit/32 bit	1000BASE-T	64ch input 64ch output @ Fs = 48 kHz	etherCON CAT5e*3
USB (To host)	USB	32 bit	USB 2.0	18ch input 18ch output	USB (Type-C)

*1 Balanced emitter-coupled logic (ECL)
*2 75 ohm impedance coaxial cables are used for connections.
*3 CAT5e or higher cable is used for connection.
*4 1 = GND, 2 = HOT, 3 = COLD

I/O Slot Characteristics

1 x PY card slot

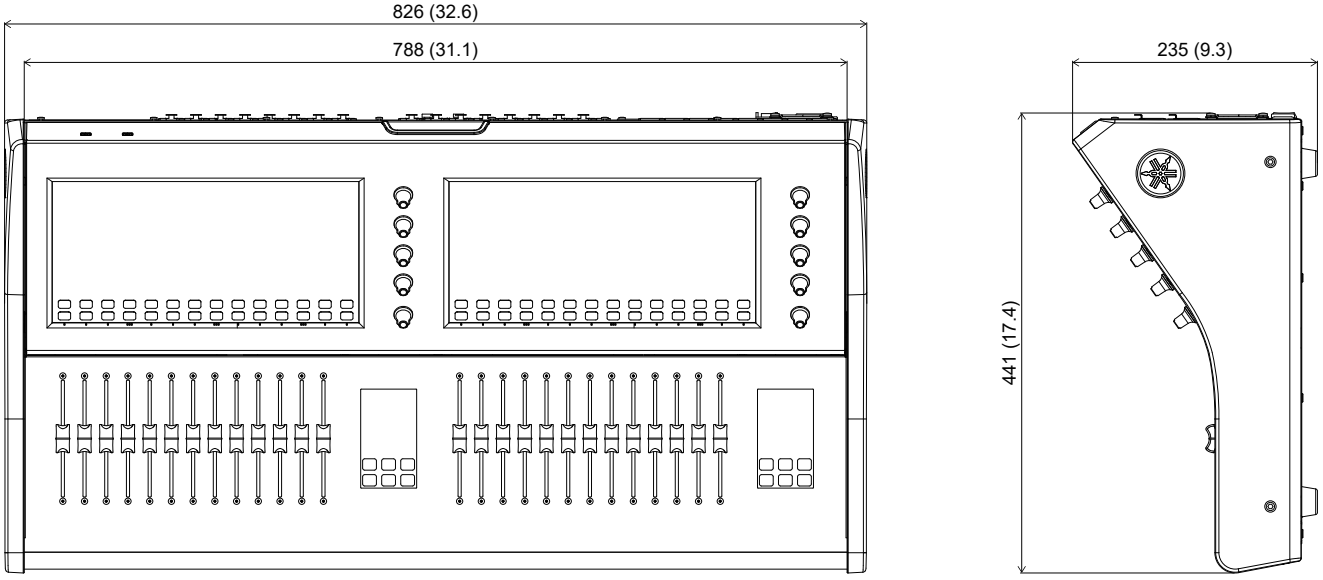
Control I/O Characteristics

Terminal	Format	Level	Connector
USB (To Device)*1	USB	USB 2.0/1.1	USB (C type)
NETWORK	IEEE802.3	1000BASE-T/100BASE-TX	RJ45*2

*1 Supported file formats are WAV and MP3.
*2 CAT5e or higher cables are used for connections.

Dimensions

Unit: mm (inch)



Options

- Software Package Broadcast Package DEK-BR
- Software Package Theatre Package DEK-TH
- Software Package Dugan Automixer License DEK-DUGAN
- Audio Processing Card PY-DSP
- Audio Interface Card PY64-D
- Audio Interface Card PY64-MD
- Audio Interface Card PY8-AE
- Interface Card PY-MIDI-GPI
- I/O Rack RUio1608SB-D
- I/O Rack RUio0804-D
- I/O Rack RUio16FLX-D
- I/O Rack Rio3224-D3
- I/O Rack Rio1608-D3
- I/O Rack RMio64-D
- I/O Rack RSio64-D
- L2 Switch SWP2-10SMF
- L2 Switch SWP2-10MMF

Software

- DM Editor V2.00
- DM StageMix V2.0.0
- MonitorMix V2.4.2
- Yamaha Console File Converter
- Steinberg Nuendo Live
- VST Rack Elements

Architectural and Engineering Specifications for DM5

The Yamaha DM5 digital mixing console shall be compact and intuitive to operate. It shall be equipped with two 13.3-inch multi-touch displays and two 4.3-inch multi-touch displays. The two main displays shall be adjustable to four viewing-angle positions for optimal visibility in different operating environments. Glass keys shall provide dynamic labeling that adapts to the current task, and User Defined Keys and Custom Fader Banks shall be configurable using the 4.3-inch displays.

The DM5 shall provide two fader bays, each comprising 12 channel faders and one additional fader, for a total of 26 touch-sensitive, motorized faders. Each fader shall have a travel of 100 mm and a resolution of 1,024 steps. Touch-sensitive knobs shall be provided in the Selected Channel section.

The console shall provide a mixing capacity of 60 input channels, 24 Mix buses, 12 Matrix buses, 2 Stereo buses, and 1 Cue bus. Internal signal processing shall support sampling frequencies of 48 kHz and 96 kHz. Signal delay from INPUT to OMNI OUT shall be less than 1.5 ms at 96 kHz.

The rear panel shall provide 32 balanced XLR analog inputs for microphone and line-level sources, with individually selectable +48 V DC phantom power, and 16 balanced XLR OMNI outputs. One PY card slot shall also be provided, and one 1/4 inch stereo TRS headphone output shall be positioned at the front. The console shall support stereo audio input via Bluetooth.

Primary and Secondary Dante connections shall provide 64 input channels and 64 output channels. The console shall support discovery of up to 127 Dante I/O devices, mounting of up to 24 devices, and head-amplifier remote control for up to 24 devices.

A USB TO HOST connection using USB Type-C shall provide 18 input channels and 18 output channels through USB 2.0. Two USB TO DEVICE connections using USB Type-C shall support file saving and loading and 2-track recording and playback. An RJ-45 connection shall be provided for Ethernet networking.

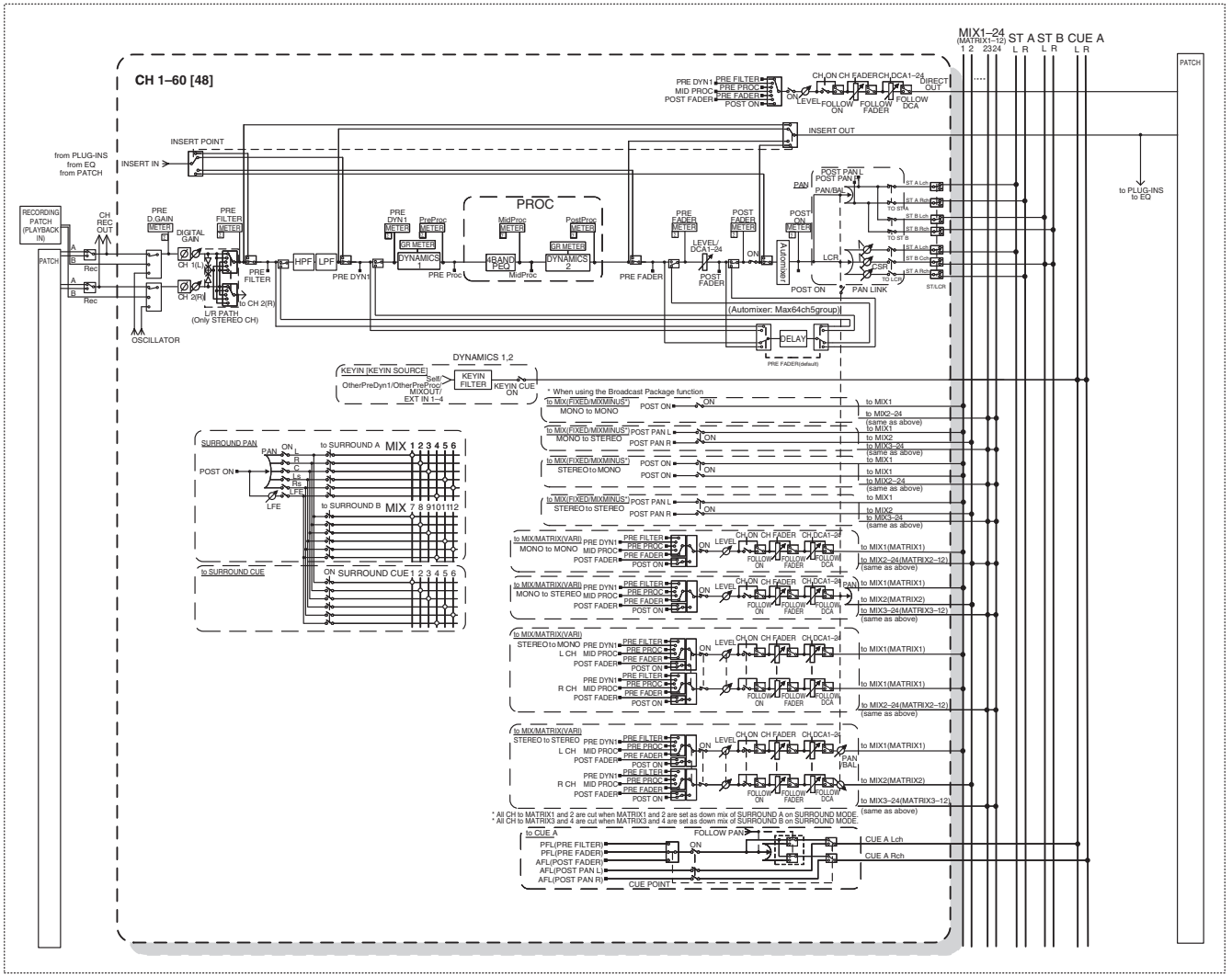
The console shall support MIDI over USB, OSC control, DAW remote control, Nuendo Live control integration, virtual soundcheck, and multitrack recording through USB or Dante. Compatible software shall include DM Editor, DM StageMix, MonitorMix, Yamaha Console File Converter, and ProVisionaire Control PLUS/ ProVisionaire Kiosk.

Power requirements shall be 100 V to 240 V AC at 50 Hz / 60 Hz. Power consumption shall be 130 W. Dimensions, including the rubber feet, shall be 826 mm (W) x 235 mm (H) x 441 mm (D). The weight shall be 21.5 kg.

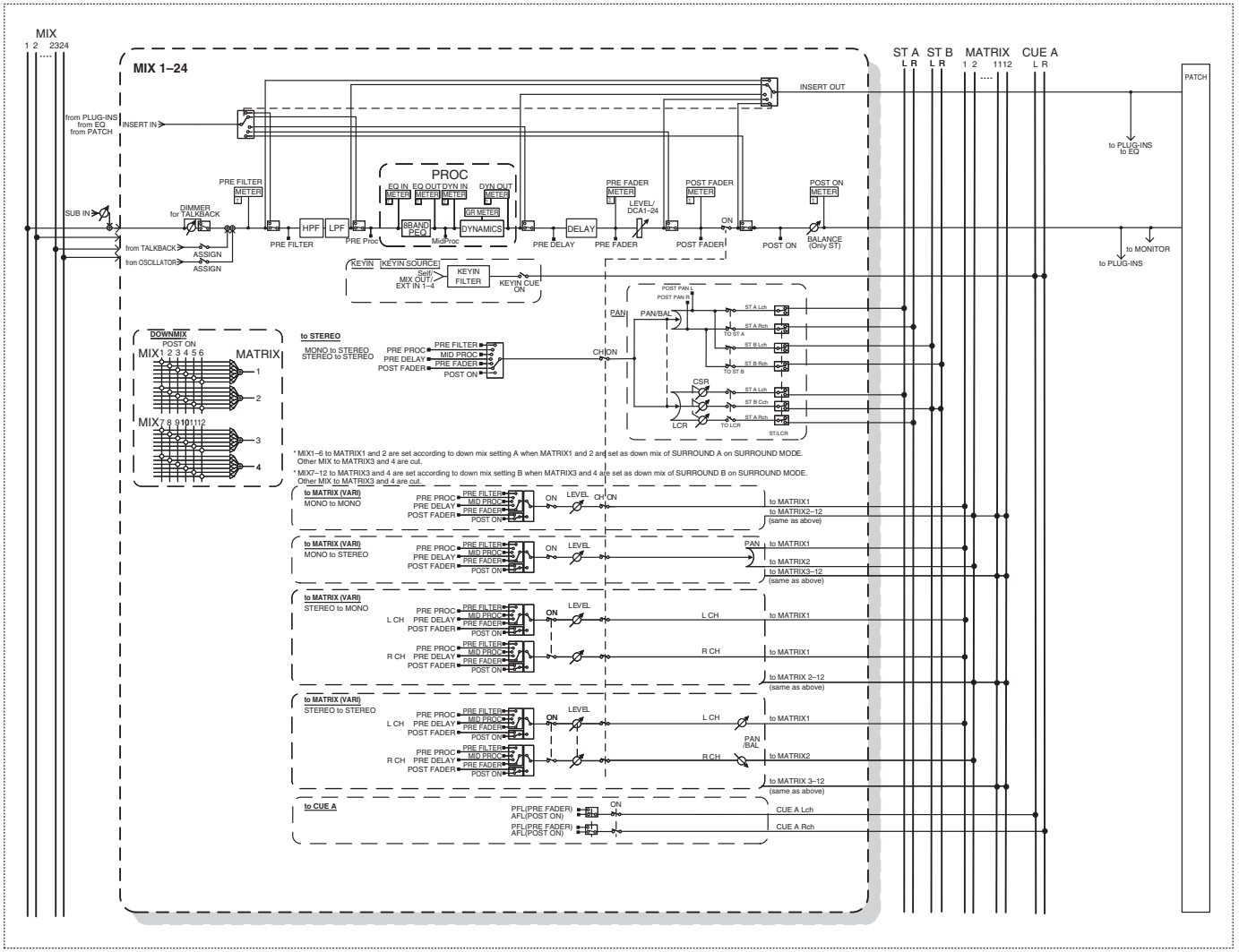
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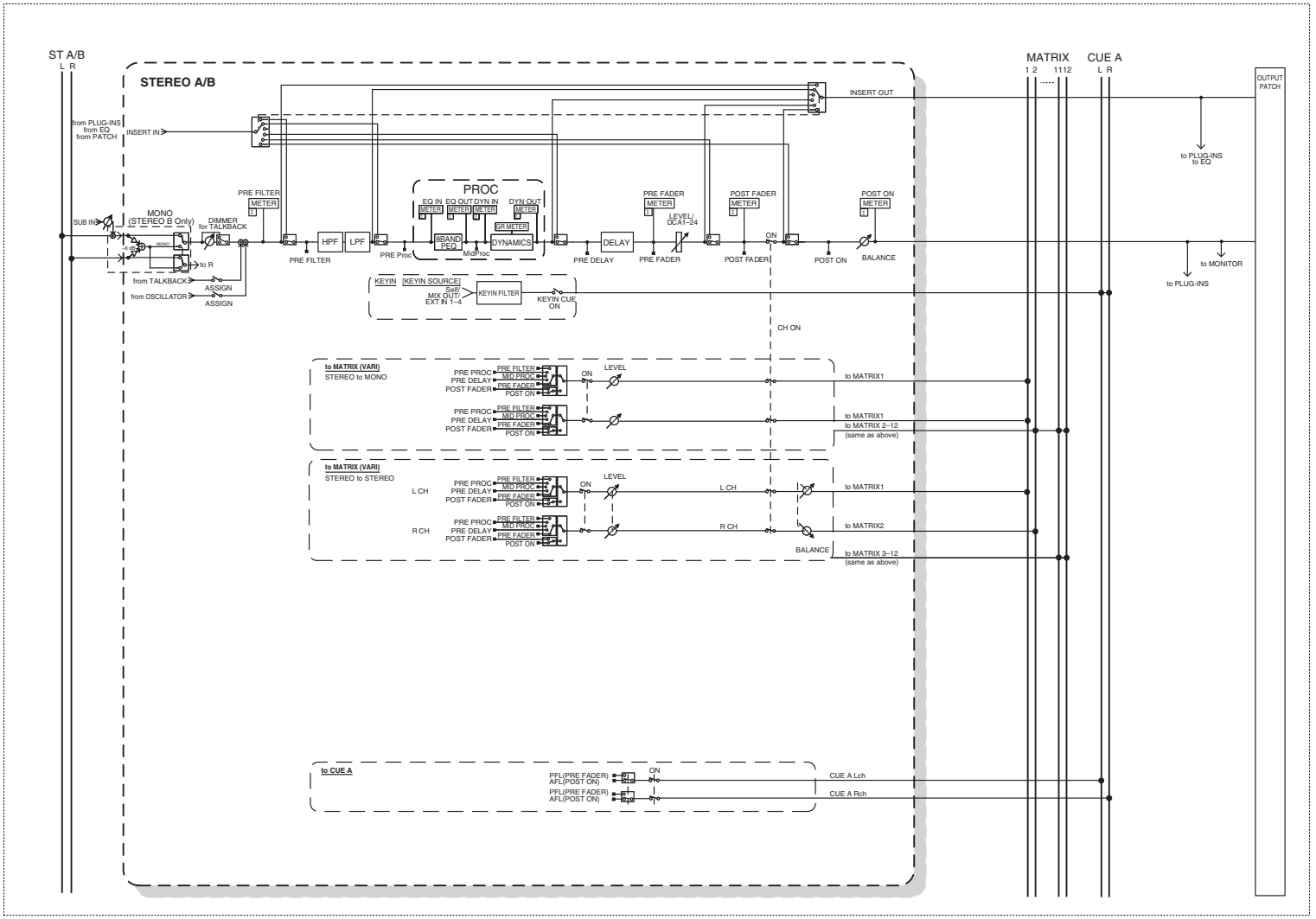
DM5 [DM5 Compact]



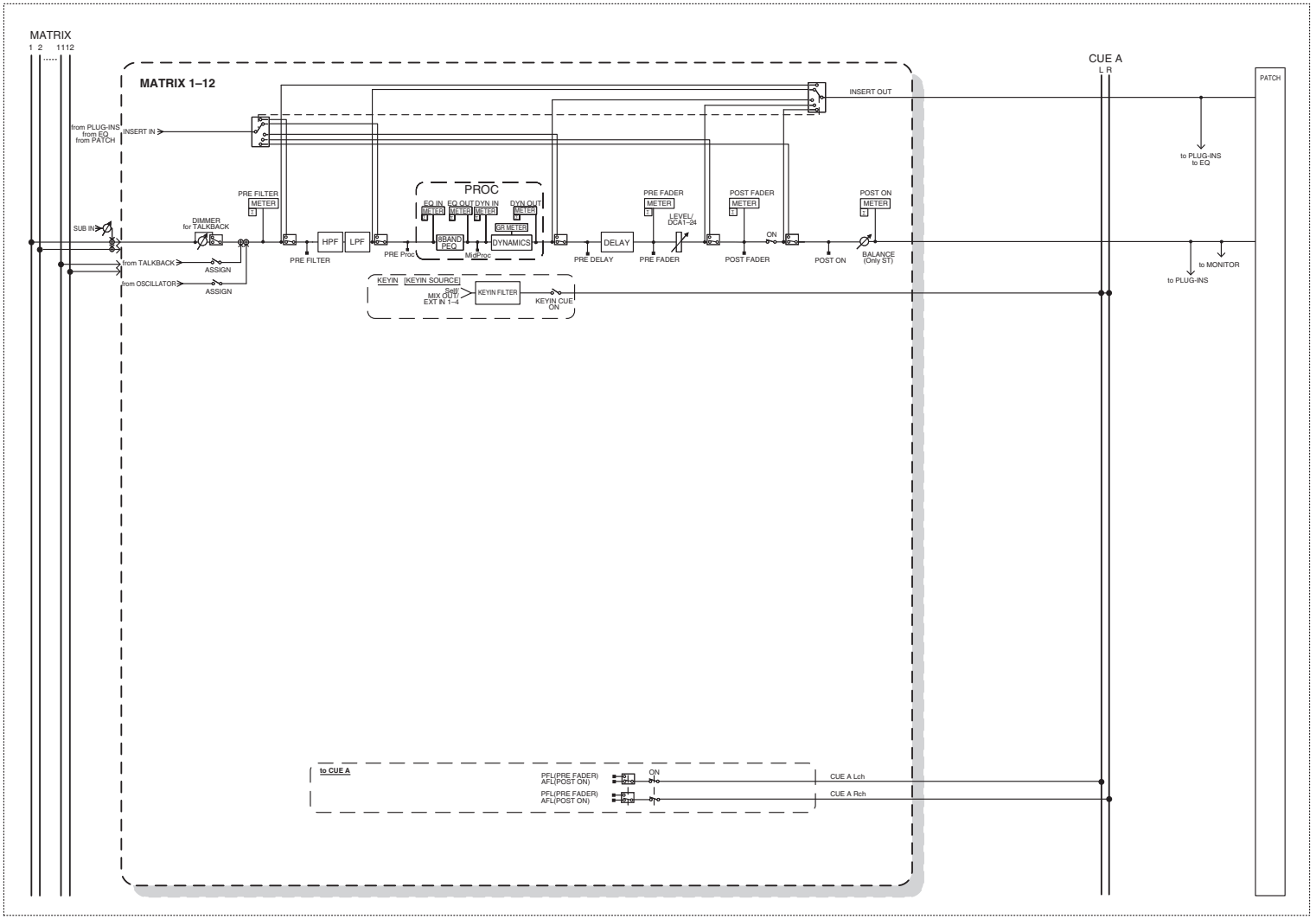
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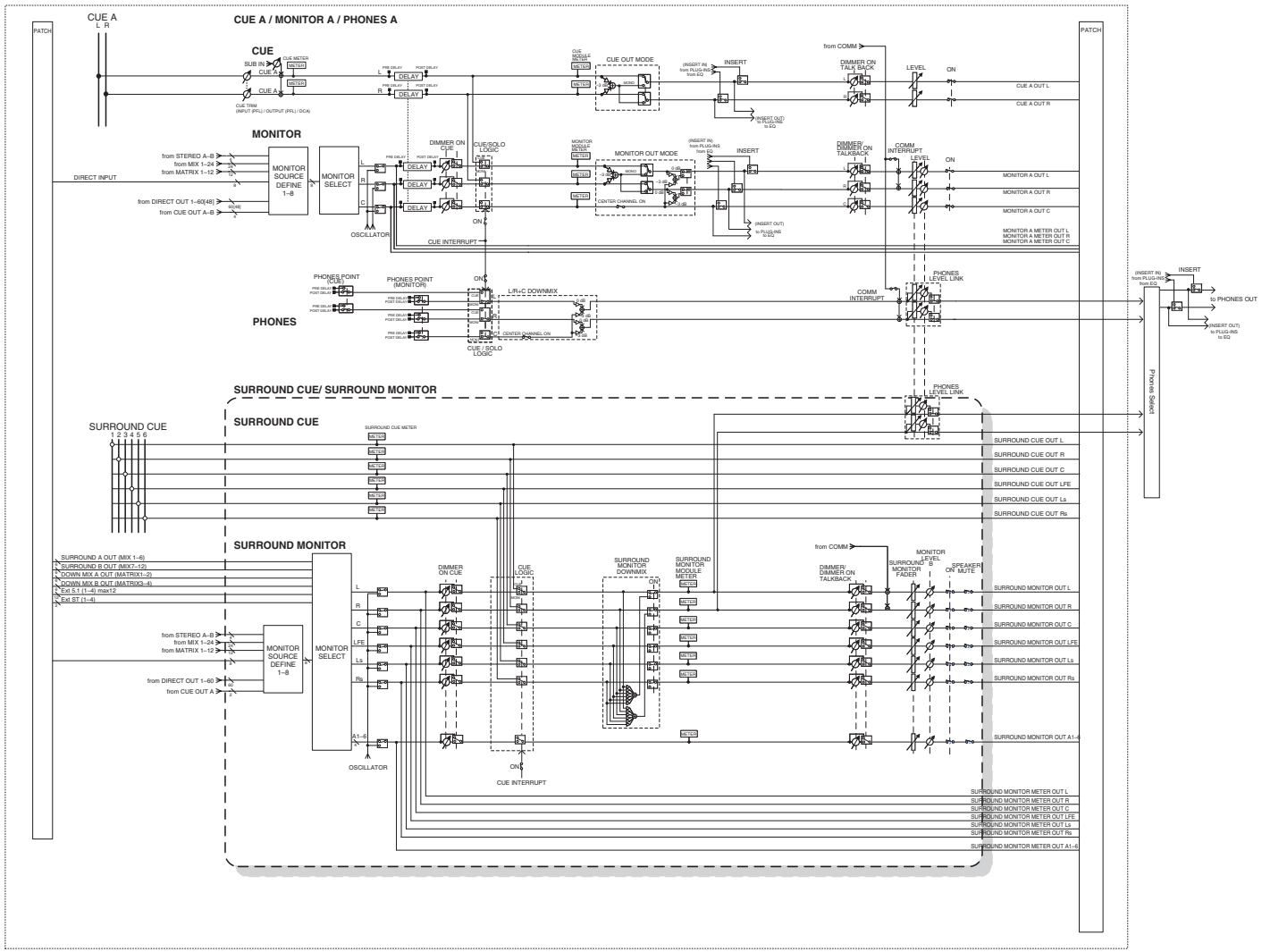
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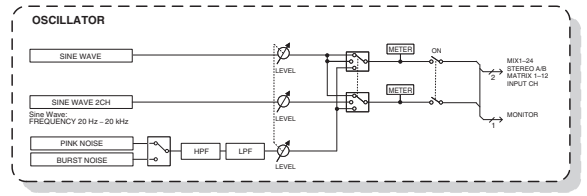
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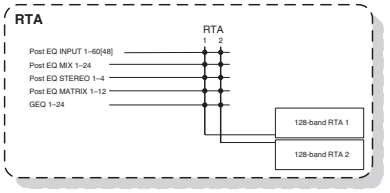


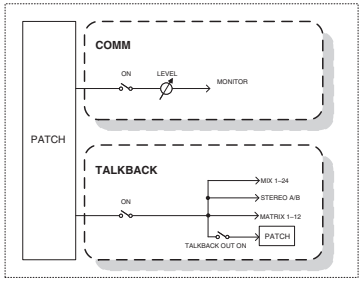
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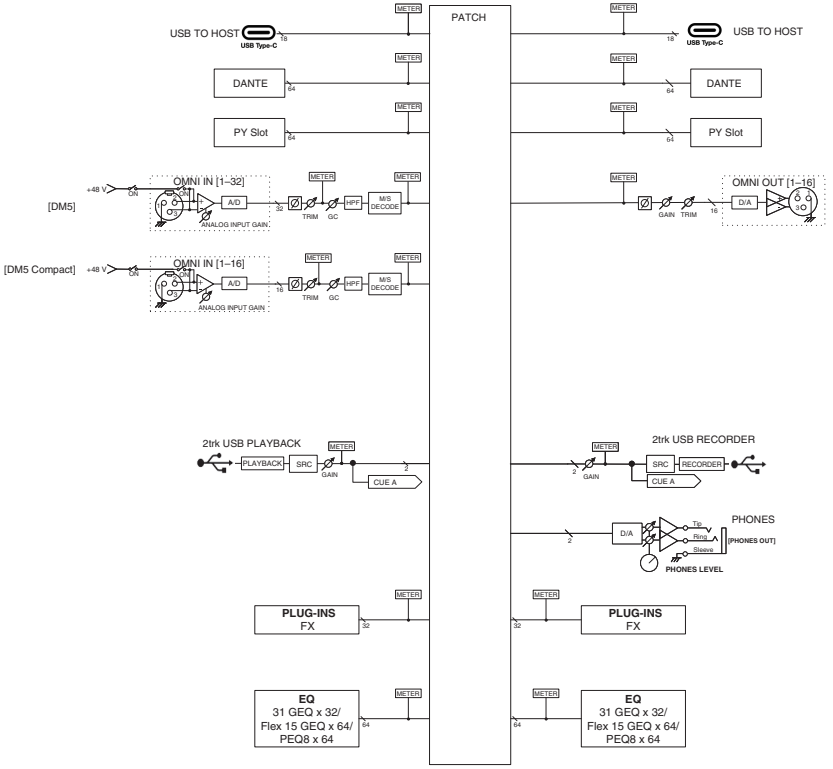


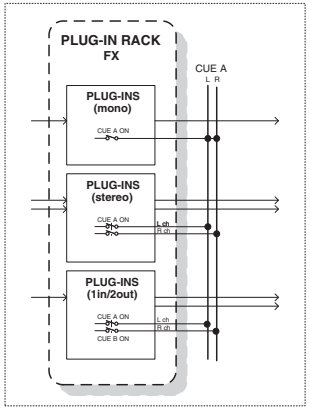
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YAMAHA CORPORATION
P.O.BOX 1, Hamamatsu Japan