

Overview

The DM5 Compact 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 Compact is configured with 13 faders and a 1 x 13.3" + 1 x 4.3" multi-touch screen with glass keys.



Features

- Input mixing channels: 48 mono
- Buses: 24 Mix + 12 Matrix + 2 Stereo
- Display: 13.3" multi-touch screen x 1, 4.3" multi-touch screen x 1
- Faders: 13 (12+1)
- Analog I/O: 16 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): 446 mm x 235 mm x 441 mm (17.6" x 9.3" x 17.4")
- Net Weight: 13.3 kg (29.3 lb)

Specifications

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Functional Specifications

Mixing Capacity	Input Channels	48 mono	Premium Rack	Number of DSP Resources	0 (Up to 32 with PY-DSP)
	Mix Buses	24		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
	Matrices	12	Effect Rack	Number of DSP Resources	16
	Stereo Buses	2		Number of Effect Types	43
	Mono Buses	1 (Stereo B can be changed)	EQ Rack	Number of DSP Resources	24
	Cue Buses	1		Mountable Devices	31BandGEQ / Flex15GEQ / 8Band PEQ (RTA overlay supported)
I/O Connectors	Analog Input	16	Dante	Number of I/O Channels	64 in / 64 out
	Analog Output	16		Number of I/O devices that can be discovered from the console	127
	Dante	Primary / Secondary		Number of I/O devices that can be mounted	24
	Expansion Slot (PY Slot)	1		Number of I/O devices with HA remote control	24
	MIDI	No (MIDI protocol supported)		Dante Patch from Console	Yes
	USB TO DEVICE	2 (USB Type-C for File Save/Load, and 2 Track Rec/Play)		Number of Audio I/O Channels	18 in / 18 out
	USB TO HOST	1 (USB Type-C, USB 2.0)		USB MIDI	Yes
	Ethernet	Yes		Solo Mode	Yes
	Meter Bridge	On screen		Oscillator	Sine Wave 1ch / Sine Wave 2ch / Pink Noise / Burst Noise
Scene Memory	Phones	1	Other Functions	Port to Port	Yes
	AC	1 (V-Lock Type)		GPI	Yes (with PY-MIDI-GPI)
	Number of Scenes	500		MIDI	Yes (USB MIDI)
	Recall Safe	Yes		OSC Server	Yes
	Focus Recall	Yes		DAW Remote	Yes
	Fade Time	Yes		Nuendo Live: Control Integration	Yes
Input Channel Functions	Selective Load / Save	Yes		Virtual Soundcheck	Yes
	Global Paste	Yes		Wireless Mic Monitoring	Yes
	Input A/B	Yes		RTA	Yes
	Gain Compensation	Yes		Delay Compensation	Yes
	Digital Gain	Yes (-96 dB to +24 dB)		Output Port Delay	Yes (Up to 20 ports)
	Attenuator	Yes (-96 dB to +24 dB)		Sub In	Yes
	HPF	20 Hz to 2,000 Hz, -6/-12/-18/-24 dB/oct Selectable		User Levels	Yes
	PEQ	4 Band Full PEQ (4 algorithms, RTA overlay supported)		Channel Link	Yes
	Dynamics 1	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking / FET Limiter / Diode Bridge Comp		Temporary Channel Link	Yes
	Dynamics 2	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking / FET Limiter / Diode Bridge Comp		Multi Language Channel Names	Yes
	Input Delay	Yes (0 ms to 1,000 ms)		Mix/Matrix to Input	Yes
	Pan	Center Nominal / LR Nominal		Assist	Yes (HA / Naming / Comp / Fader)
	DCA Group	12 (Output DCA supported)			
	DCA Rollout	Yes			
	MUTE Group	12			
Output Channel Functions	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			
	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			

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User Interface	Displays	13.3" multi-touch x 1, 4.3" multi-touch x 1
	Faders	13 (12+1)
	Channel Name / Color Displays	No (on-screen)
	Custom Fader Banks	Yes
	Shift Keys	Yes (on-screen)
	User Defined Keys	Glass Keys: 6, Screen: 6 (6 keys x 4 bank)
	User Defined Knobs	Yes (by 4 encoders next to the screen)
	Touch and Turn Knobs	Yes
Software	Rack Mountable	Yes
	Editor	DM Editor (Win/Mac)
	StageMix	DM StageMix
	MonitorMix	Yes
	Console File Converter	Yes
Dimensions	W	446 mm (17.6")
	H	235 mm (9.3") *including the rubber feet
	D	441 mm (17.4")
Net weight		13.3 kg (29.3 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 = 1024 steps) x 13 13.3" multi-touch screen with Glass key x 1 4.3" multi-touch screen with Glass key x 1 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, Rack Mount Kit RK5	

*1 Input clock jitter must be 1 ns 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 1-16	OMNI OUT 1-16	10 k Ω	GAIN: +64 dB	-1.5	0.0	0.5	dB

Total harmonic distortion

Input	Output	RL	Conditions	Min.	Typ.	Max.	Unit
INPUT 1-16	OMNI OUT 1-16	10 k Ω	+4 dBu @ 20 Hz - 20 kHz, GAIN: +64 dB			0.15	%
INPUT 1-16	OMNI OUT 1-16	10 k Ω	+4 dBu @ 20 Hz - 20 kHz, GAIN: -0 dB			0.05	%
INPUT 1-16	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 1-16	OMNI OUT 1-16	10 k Ω	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 1-16	OMNI OUT 1-16	10 k Ω	Rs = 150 Ω , GAIN: 0 dB		-85	-83	dBu
-	OMNI OUT 1-16	10 k Ω	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 1-16	OMNI OUT 1-16	10 k Ω	AD + DA, GAIN: 0 dB		109		dB
-	OMNI OUT 1-16	10 k Ω	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 1-16, adjacent inputs, Gain MIN (CH N $\pm$ 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

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Analog Input Characteristics*3*4

Terminal	GAIN	Actual load impedance	For use with nominal	Input level			Connector
				Sensitivity *1	Nominal	Max. before clip	
INPUT 1-16	+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.

Options

• Rack Mount Kit	RK5
• 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

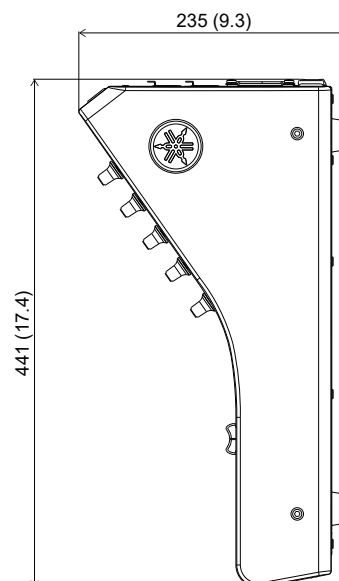
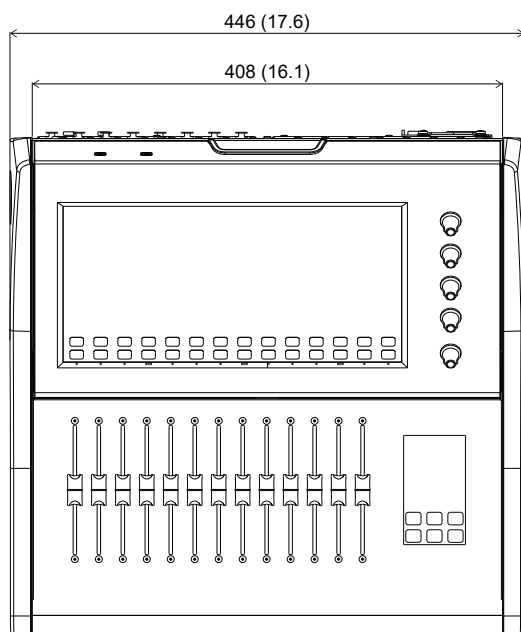
Software

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

Dimensions

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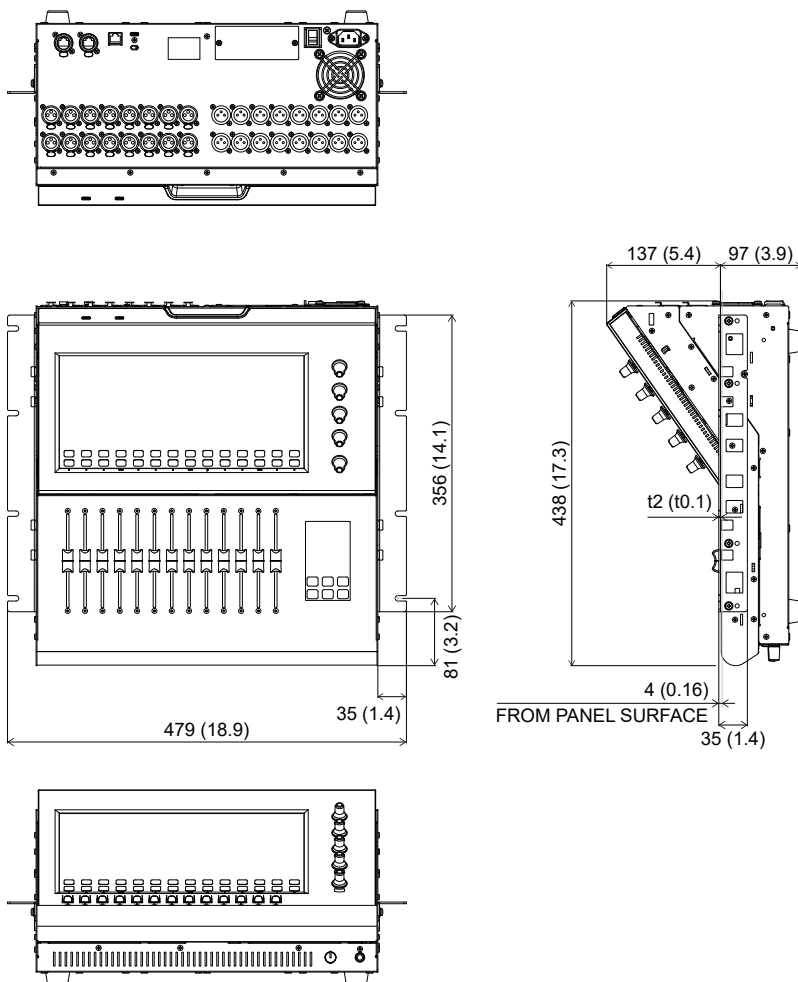
Unit: mm (inch)



Dimensions: DM5 Compact with Rack Mount

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Unit: mm (inch)



Architectural and Engineering Specifications for DM5 Compact

The Yamaha DM5 Compact digital mixing console shall be compact and intuitive to operate. It shall be equipped with one 13.3-inch multi-touch display and one 4.3-inch multi-touch display. The main display 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 display.

The DM5 Compact shall provide one fader bay, comprising 12 channel faders and one additional fader, for a total of 13 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 48 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 16 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.

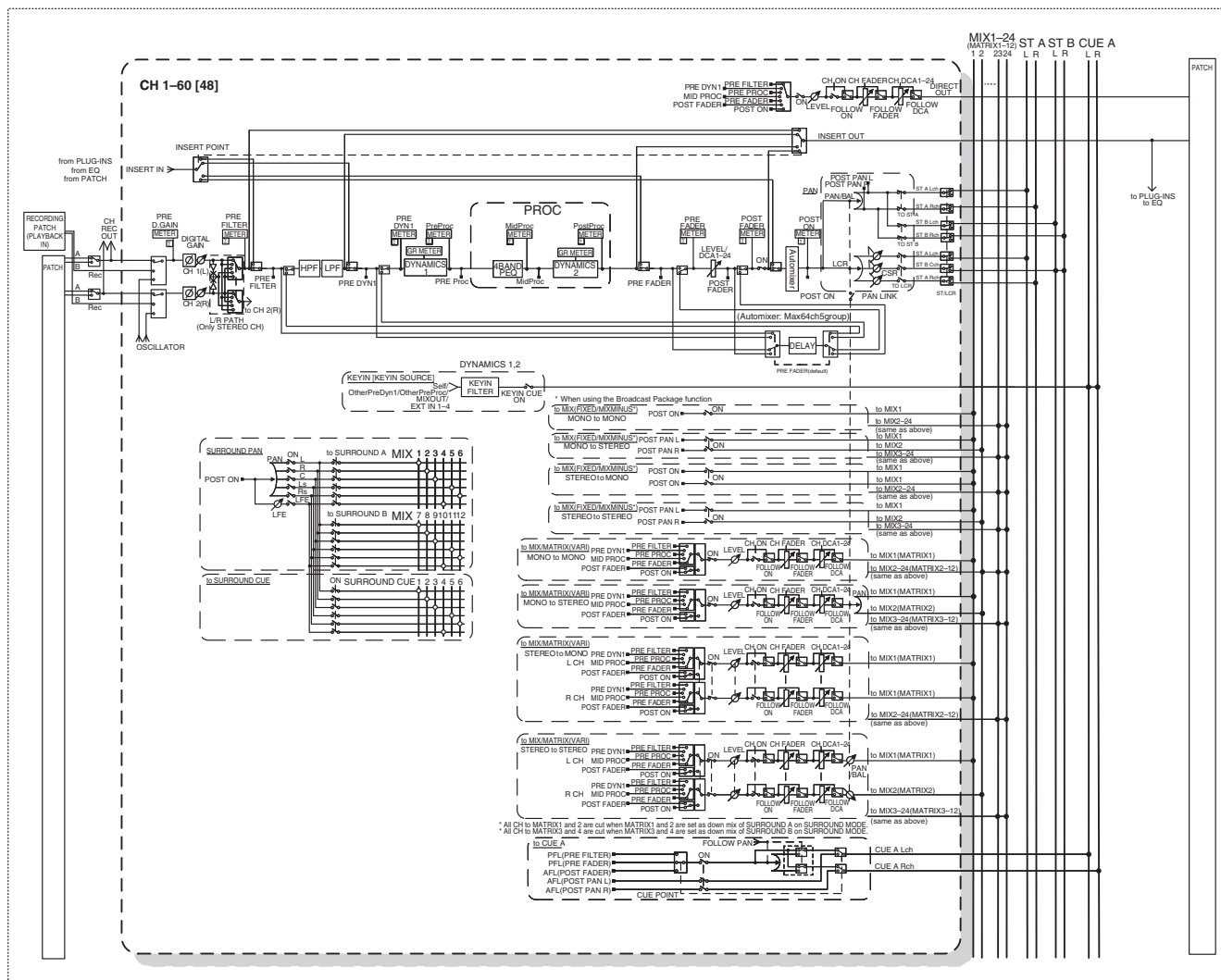
The console shall support MIDI over USB, OSC control, DAW remote control, Nuendo Live control integration, virtual soundcheck, and multitrack recording through USB or Dante. Compatible software shall include DM Editor, DM StageMix, MonitorMix, Yamaha Console File Converter, and ProVisionaire Control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

An optional rack mount kit, RK5, shall be available to install the DM5 Compact into 19 inch racks.

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 446 mm (W) x 235 mm (H) x 441 mm (D). The weight shall be 13.3 kg.

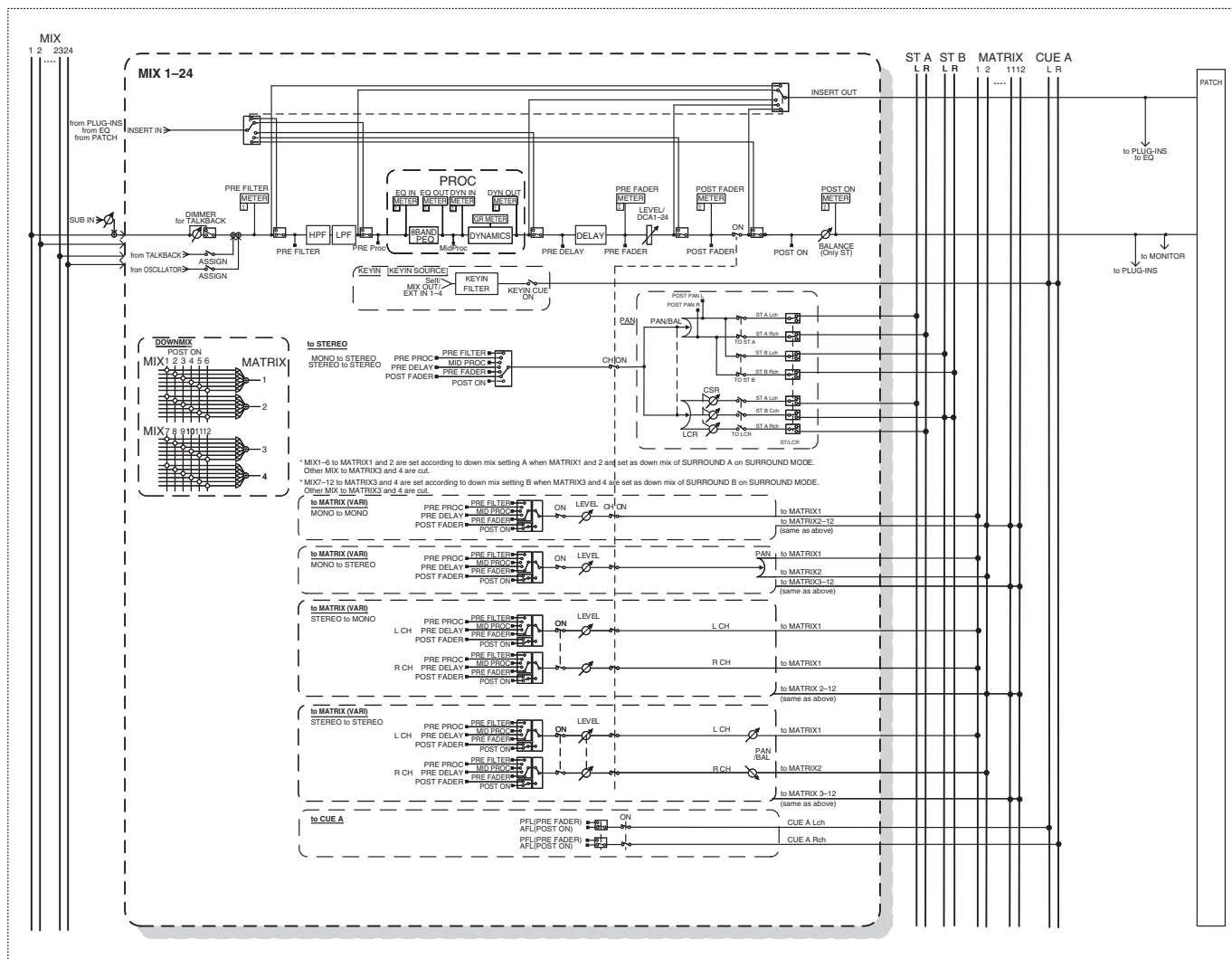
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DM5 [DM5 Compact]



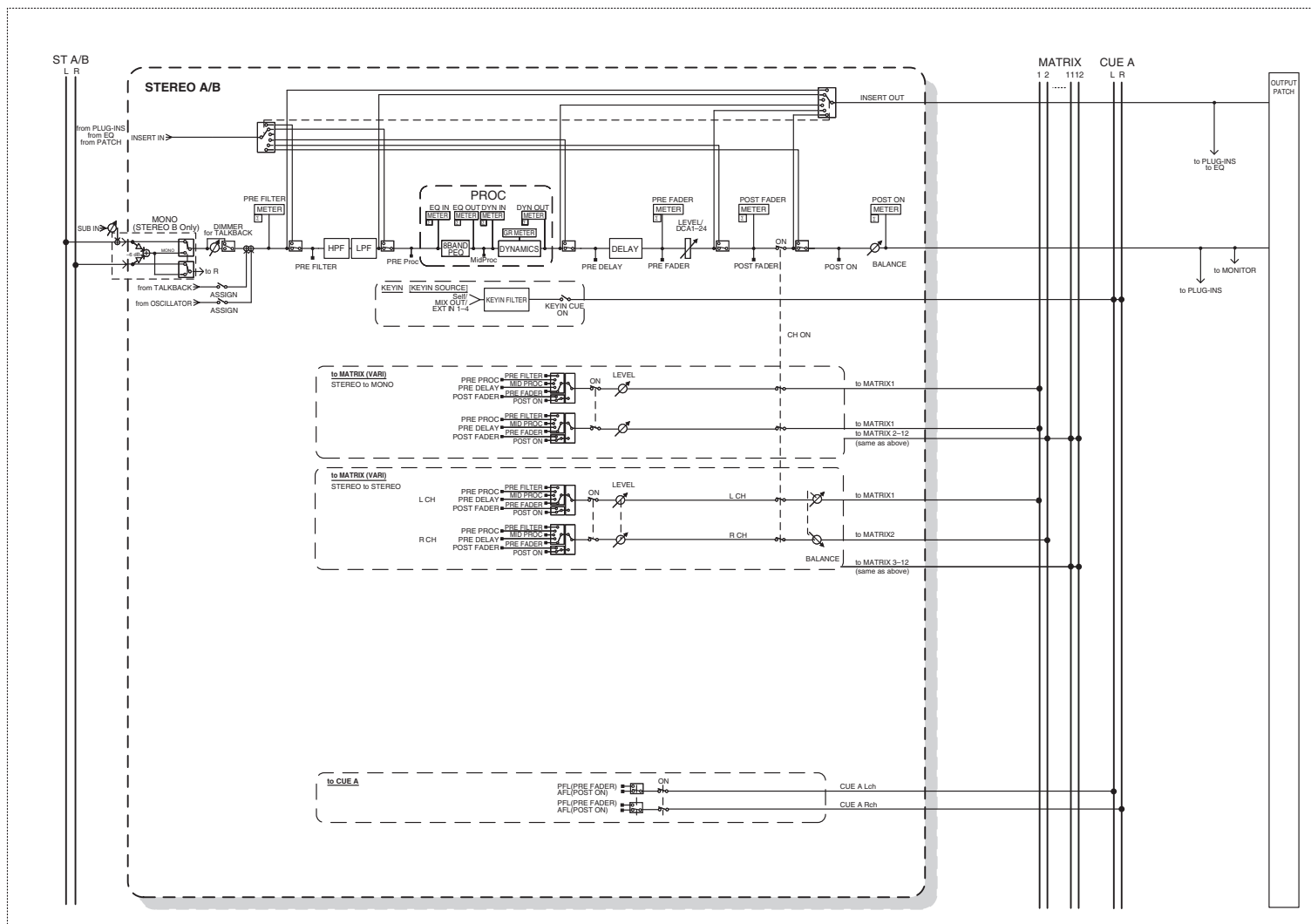
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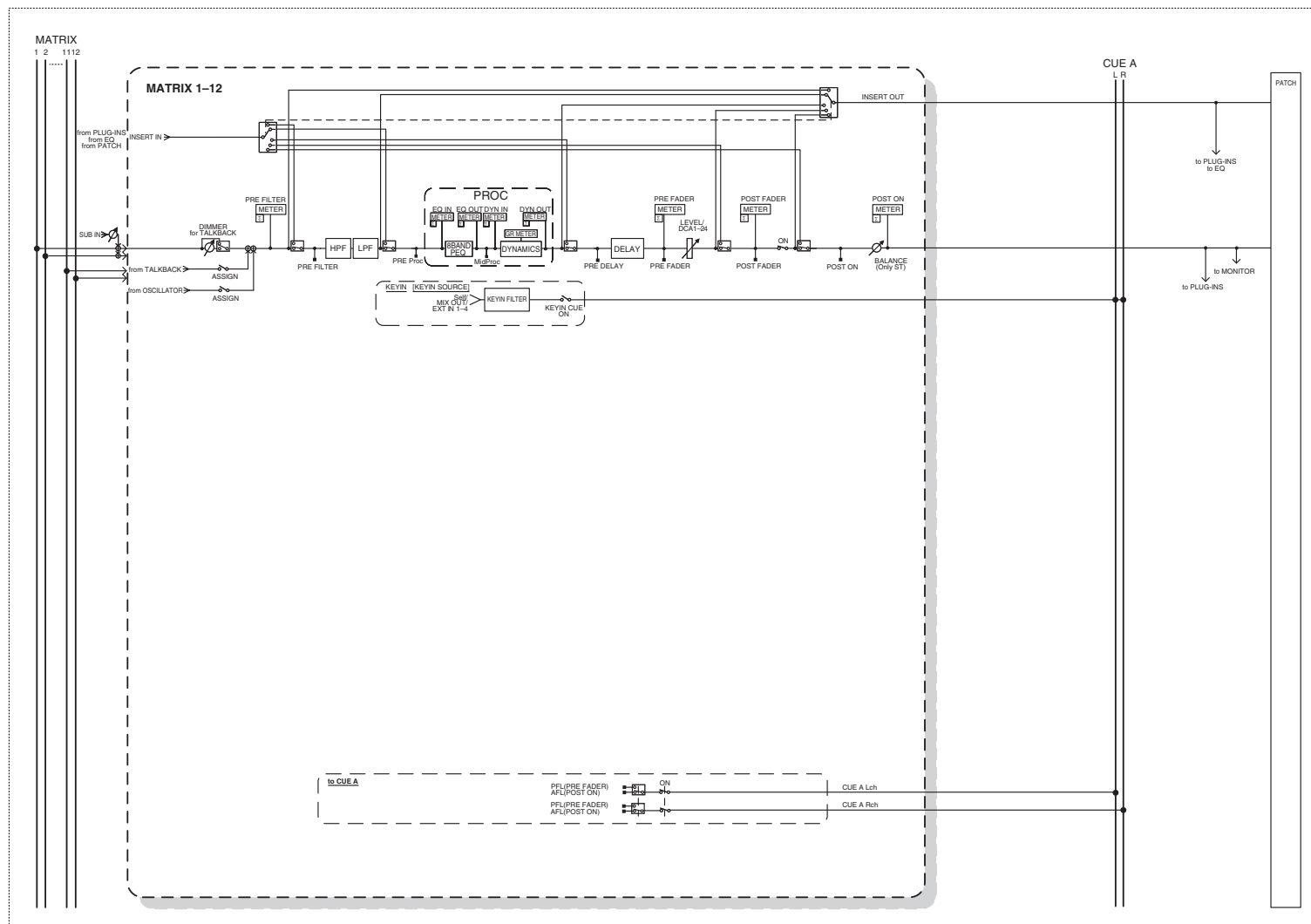
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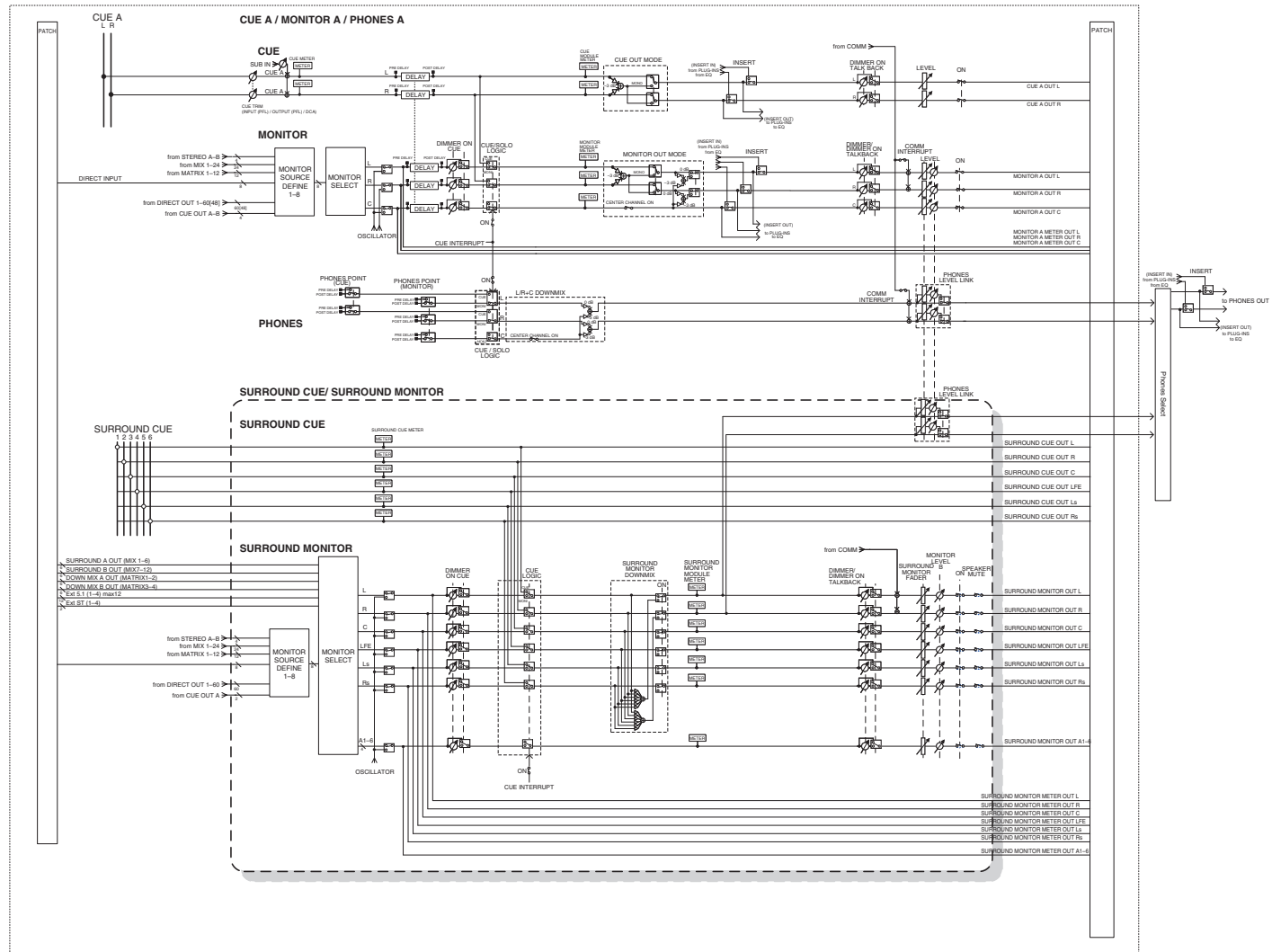
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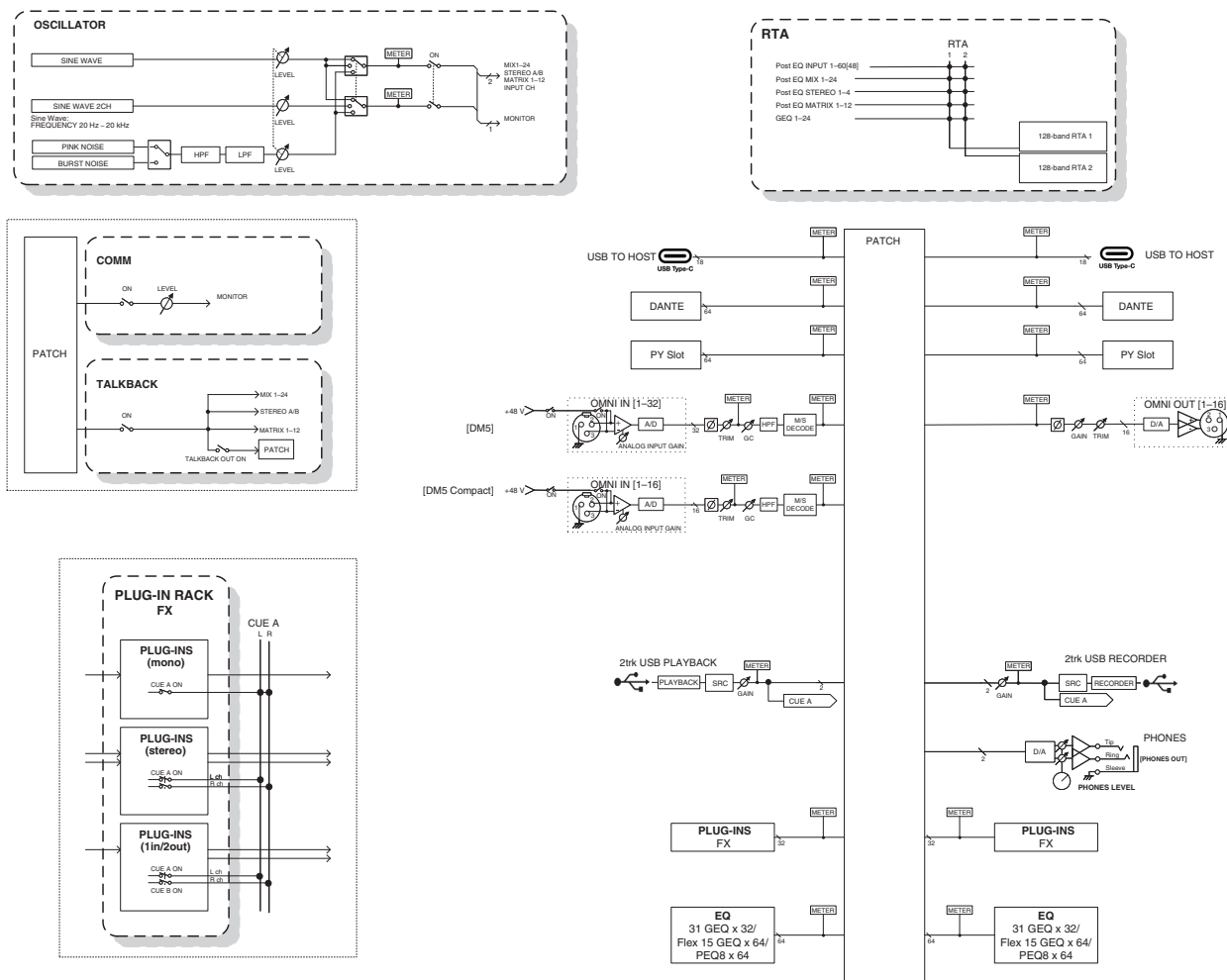
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Created in September, 2026

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