

# DM2000VCM

## Digital Production Console



# DM2000VCM



Rear Panel



*\*Peak Meter Bridge MB2000 & Wood Side Pad SP2000 are options.*

### *96 Inputs and 22 Buses For Glorious Surround Sound.*

- Precise 24-bit/96-kHz audio and high-performance head amps.
- 96-input 22 buses (8 group buses, 12 auxiliary buses, and a stereo bus) mix capacity at 96kHz.
- Powerful channel functions with flexible control and digital patching capability.
- Eight advanced multi-effect processors plus six 31-band GEQs.
- Scene memory and auto-mix functions for efficient workflow.
- Versatile channel pairing and grouping functions enhance mixing efficiency.
- Comprehensive interface with touch-sensitive 100-mm motor faders.
- Six mini-YGDAI expansion slots for easy I/O expansion in a variety of formats.
- Compatible with both Windows or Macintosh versions of Studio Manager version2 Software, allowing your PC and Console to work together seamlessly.
- Easy integration with computer-based DAWs (Digital Audio Workstations) or digital recorders to create an advanced digital production environment.
- A comprehensive range of features for surround production, including an enhanced surround monitoring environment with bass management.
- A new dimension of production power with the addition of Yamaha VCM effects and processing.
- Included in the THX pm3™ Studio Certification Program Approved Equipment List.

#### OPTIONS

**MB2000**  
Peak Meter Bridge

**SP2000**  
Side Pad

**LA1L**  
Gooseneck Lamp

# DM2000VCM

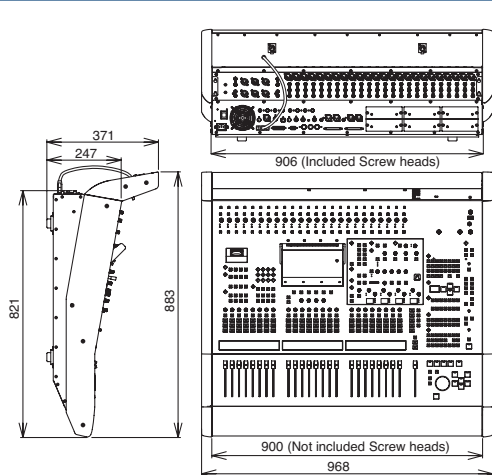
## GENERAL SPECIFICATIONS

Internal processing	32bit (Accumulator=58bit)
Number of scene memories	99
Sampling frequency rate	Internal: 44.1kHz,48kHz,88.2kHz,96kHz External: Normal rate 44.1kHz (-10%) to 48kHz (+6%) Double rate 88.2kHz (-10%) to 96kHz (+6%)
Signal Delay	Less than 2.3 ms CH INPUT to STEREO OUT (@fs=48 kHz) Less than 1.2 ms CH INPUT to STEREO OUT (@fs=96 kHz)
Total harmonic distortion *1 CH INPUT to STEREO OUT Input Gain=Min.	Less than 0.05%, 20Hz to 20kHz @+14dB into 600Ω Less than 0.01%, 1kHz @+18dB into 600Ω (@fs=48kHz) Less than 0.05%, 20Hz to 40kHz @+14dB into 600Ω Less than 0.01%, 1kHz @+18dB into 600Ω (@fs=96kHz)
Frequency response CH INPUT to STEREO OUT	20Hz - 20kHz, 0.5, -1.5dB, @+4dB into 600Ω (@fs=48kHz) 20Hz - 40kHz, 0.5, -1.5dB, @+4dB into 600Ω (@fs=96kHz)
Dynamic range (maximum level to noise level)	110dB typ, DA Converter (STEREO OUT) 108dB typ, AD+DA (to STEREO OUT) (@fs=48kHz) 106dB typ, AD+DA (to STEREO OUT) (@fs=96kHz)
Hum & noise level *2 (20Hz to 20kHz) Rs=150ohms Input Gain=Max Input Pad=0dB Input Sensitivity=-60dB	-128dBu Equivalent Input Noise -92dBu residual output noise. STEREO OUT STEREO OUT off STEREO OUT -92dBu(96dB S/N) STEREO fader at nominal level and all CH INPUT faders at minimum level -64dBu(68dB S/N) STEREO OUT STEREO fader at nominal level and one CH INPUT fader at nominal level
Crosstalk (@1kHz) Input GAIN=min	-80dB adjacent input channels (CH1-24) -80dB input to output
Power requirements	Japan: AC100V 50/60Hz, 300W North America: AC120V, 60Hz, 300W Other Areas: AC220-240V, 50/60Hz, 300W
Dimensions (W x H x D)	DM2000: 906 x 257 x 821mm (35.7" x 10.2" x 32.3") With MB & SP: 968 x 371 x 883mm (38.1" x 14.6" x 34.8")
Weight	DM2000: 43.0kg (94.8lbs) With MB & SP: 51.6kg (113.8lbs)

\*1. Total Harmonic Distortion are measured with a 6dB/octave filter @80kHz

\*2. Hum&Noise are measured with 6dB/octave filter @12.7kHz;equivalent to a 20kHz filter with infinite dB/octave attenuation.

## DIMENSIONS



unit : mm

## ANALOG INPUT SPECIFICATIONS

Input terminal	PAD	GAIN	Actual load impedance	For use with nominal	Input level			Connector
					Sensitivity	Nominal	Max. before clip	
CH INPUT A/B 1-24	0	-60dB	3kΩ	50-600Ω Mics & 600Ω Lines	-70dBu	-60dBu	-46dBu	A:XLR3-31 type (Balanced) B:TRS Phone jack (Balanced)
	26	-16dB			-26dBu	-16dBu	-2dBu	
INSERT IN 1-24			10kΩ	600Ω Lines	0dB	+10dBu	+24dBu	TRS Phone jack (Balanced)
2TR IN ANALOG1(L,R)			10kΩ	600Ω Lines	-6dBu	+4dBu	+18dBu	TRS Phone jack (Balanced)
2TR IN ANALOG2(L,R)			10kΩ	600Ω Lines	-10dBu	-10dBu	+4dBu	RCA pin jack (Unbalanced)

## ANALOG OUTPUT SPECIFICATIONS

Output terminals	Actual source impedance	For use with nominal	GAIN SW	Output terminals		Connectors
				Nominal	Max. before Clip	
STEREO OUT (L,R)	600Ω	10kΩ Lines	—	-10dBV	+4dBV	RCA pin jack (Unbalanced)
	150Ω	600Ω Lines	—	+4dBu	+18dBu	XLR3-32 type (Balanced)
STUDIO MONITOR OUT(L,R)	150Ω	10kΩ Lines	—	+4dBu	+18dBu	TRS Phone jack (Balanced)
C-R MONITOR OUT LARGE(L,R)	150Ω	600Ω Lines	—	+4dBu	+18dBu	XLR3-32 type (Balanced)
C-R MONITOR OUT SMALL(L,R)	150Ω	600Ω Lines	—	+4dBu	+18dBu	XLR3-32 type (Balanced)
OMNI OUT 1-8	150Ω	10kΩ Lines	+18dBu (default)	+4dBu	+18dBu	TRS Phone jack (Balanced)
			+4dBu	-10dBu	+4dBu	
INSERT OUT 1-24	600Ω	10kΩ Lines	—	+4dBu	+18dBu	TRS Phone jack (Balanced)
PHONES	100Ω	8Ω Lines	—	4mW	25mW	ST Phone jack (Unbalanced)
		40Ω Lines	—	12mW	75mW	

## DIGITAL INPUT SPECIFICATIONS

Terminal		Format	Data length	Level	Connector
2TR IN DIGITAL	1	AES/EBU	24bit	RS422	XLR3-31 type (Balanced)
	2	AES/EBU	24bit	RS422	XLR3-31 type (Balanced)
	3	IEC-60958	24bit	0.5Vpp/75Ω	RCA pin jack
CASCADE IN		—	—	RS422	D-sub Half Pitch Connector 68P (female)

## DIGITAL OUTPUT SPECIFICATIONS

Terminal		Format	Data length	Level	Connector
2TR OUT DIGITAL	1	AES/EBU (Professional use)	24bit	RS422	XLR3-31 type (Balanced)
	2	AES/EBU (Professional use)	24bit	RS422	XLR3-31 type (Balanced)
	3	IEC-60958 (Consumer Use)	24bit	0.5Vpp/75Ω	RCA pin jack
CASCADE OUT		—	—	RS422	D-sub Half Pitch Connector 68P (female)

0dB=0.775Vrms; 0dBV=1.00Vrms

## CONTROL I/O SPECIFICATIONS

Terminal		Format	Level	Connector in Console
TO HOST	Serial	—	RS422	Mini DIN Connector 8P
	USB	USB 1.1	0 V-3.3 V	B type USB connector
MIDI	IN	MIDI	—	DIN Connector 5P
	OUT	MIDI	—	DIN Connector 5P
	THRU	MIDI	—	DIN Connector 5P
TIME CODE IN	MTS	MIDI	—	DIN Connector 5P
	SMPTE	SMPTE	Nominal 10 dB/10kΩ	XLR-3-31 type (Balanced) *1
WORD CLOCK	IN	—	TTL/75Ω (ON/OFF) *2	BNC Connector
	OUT 1, 2	—	Nominal 10 dB/10kΩ	BNC Connector
CONTROL	—	—	—	D-SUB Connector 25P (Female)
REMOTE	—	—	RS422	D-SUB Connector 9P (Male)
KEYBOARD	—	PS/2	—	DIN Connector 6P
STORAGE CARD	—	—	—	SmartMedia slot
METER	—	—	RS422	D-SUB Connector 15P (Female)

\*1. XLR-3-31 type connectors are balanced (1=GND, 2=HOT, 3=COLD).

\*2. This switch is on the rear panel.

