

# DM1000VCM

## Digital Production Console



# DM1000VCM



DM1000VCM **13U**  
MB1000 **3U**



Rear Panel



\*Peak Meter Bridge MB1000&  
Wood Side Pad SP1000 are options.

## 19-inch Digital Production Console for professionals in the studio or on the road.

- Precise 24-bit/96-kHz audio and high-performance head amps.
- Generous mixing capacity with up to 48 simultaneous inputs and 18 mix buses (8 group buses, 8 auxiliary buses, and the main stereo bus) in a compact rack-mount size console.
- Powerful channel functions with flexible control and digital patching capability.
- Four advanced multi-effect processors include surround effects.
- Scene memory and auto-mix functions for efficient workflow.
- Versatile pairing and grouping functions enhance mixing efficiency.
- Comprehensive interface with 17 touch-sensitive 100-mm motor faders.
- A generous selection of control interfaces: MIDI, USB, REMOTE, SMPTE, and word clock.
- Two 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

MB1000 Peak Meter Bridge    SP1000 Side Pad    RK-1 Rack-mount Kit

## GENERAL SPECIFICATIONS

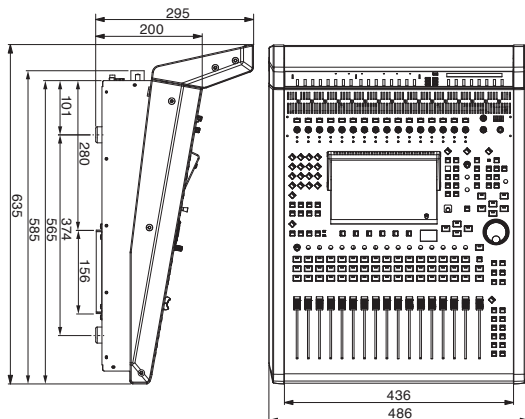
<b>Internal processing</b>	32bit (Accumulator=58bit)
<b>Number of scene memories</b>	99
<b>Sampling frequency rate</b>	Internal : 44.1kHz, 48kHz, 88.2kHz, 96kHz External: Normal rate 44.1kHz (-10%) to 48kHz (+6%) Double rate 88.2kHz (-10%) to 96kHz (+6%)
<b>Signal Delay</b>	Less than 1.6 ms CH INPUT to STEREO OUT (@fs=48 kHz) Less than 0.8 ms CH INPUT to STEREO OUT (@fs=96 kHz)
<b>Total harmonic distortion*1</b> CH INPUT to STEREO OUT Input Gain=Min.	Less than 0.05%, 20Hz to 20kHz @+14dBu into 600Ω Less than 0.01%, 1kHz @+24dBu into 600Ω (@fs=48kHz) Less than 0.05%, 20Hz to 40kHz @+14dBu into 600Ω Less than 0.01%, 1kHz @+24dBu into 600Ω (@fs=96kHz)
<b>Frequency response</b> CH INPUT to STEREO OUT	20Hz - 20kHz, 0.5, -1.5dB, @+4dBu into 600Ω (@fs=48kHz) 20Hz - 40kHz, 0.5, -1.5dB, @+4dBu into 600Ω (@fs=96kHz)
<b>Dynamic range</b> (maximum level to noise level)	110dB typ, DA Converter (OMNI OUT) 106dB typ, AD+DA (to OMNI OUT)
<b>Hum &amp; noise level*2</b> (20Hz to 20kHz) Rs=150ohms Input Gain=Max Input Pad=0dB Input Sensitivity=-60dB	-128dBu Equivalent Input Noise -86dBu residual output noise. OMNI OUT(STEREO OUT off) -86dBu(96dB S/N) OMNI OUT(STEREO fader at nominal level and all CH INPUT faders at minimum level) -64dBu(68dB S/N) OMNI OUT(STEREO fader at nominal level and one CH INPUT fader at nominal level)
<b>Crosstalk</b> (@1kHz) Input Gain=Min.	-80dB adjacent input channels (CH1-16) -80dB input to output
<b>Phantom Power</b>	+48V
<b>Power requirements</b>	Japan: AC100V 50/60Hz North America: AC120V, 60Hz Other Areas: AC220-240V, 50/60Hz
<b>Power consumption</b>	135W
<b>Dimensions</b> (W x H x D)	DM1000: 436 x 200 x 585mm (17.1" x 7.8" x 23.0") With MB and SP: 486 x 295 x 635mm (19.1" x 11.6" x 25.0")
<b>Weight</b>	20.0kg (44lbs) With MB & SP: 23.6kg (52.0lbs)

\*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.

\*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.

## DIMENSIONS

unit : mm



## ANALOG INPUT SPECIFICATIONS

Input terminal	Actual source impedance		For use with nominal	Input level			Connector	
	PAD	GAIN		Sensitivity	Nominal	Max. before clip		
CH INPUT 1-16	0	-60dB	3kΩ	50-600Ω Mics & 600Ω Lines	-70dBu	-60dBu	-46dBu	XLR3-31 type*
	20	-16dB			-26dBu	-16dBu	+4dBu	
OMNI IN 1-4			10kΩ	600Ω Lines	+4dBu	+4dBu	+24dBu	

## ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual source impedance	For use with nominal	GAIN SW	Output terminals		Connector
				Nominal	Max. before clip	
OMNI OUT 1-8	75Ω	600Ω Lines	—	+4dBu	+24dBu	XLR3-32 type*
PHONES	100Ω	8Ω Phones	—	4mW	25mW	ST Phone Jack**
		40Ω Phones	—	12mW	75mW	

## DIGITAL INPUT SPECIFICATIONS

Terminal	Format	Data length	Level	Connector	
2TR IN DIGITAL	1	AES/EBU	24bit	RS422	XLR3-31 type
	2	IEC-60958	24bit	0.5Vpp/75Ω	RCA Pin Jack

## DIGITAL OUTPUT SPECIFICATIONS

Terminal	Format	Data length	Level	Connector	
2TR OUT DIGITAL	1	AES/EBU (Professional use)	24bit	RS422	XLR3-32 type
	2	IEC-60958 (Consumer Use)	24bit	0.5Vpp/75Ω	RCA Pin Jack

## CONTROL I/O SPECIFICATIONS

Terminal	Format	Level	Connector
TO HOST USB	USB	0 V-3.3 V	B Type USB Connector
MIDI	IN	—	DIN Connector 5P
	OUT		
TIME CODE INPUT	SMPTE	Nominal -10dB/10kΩ	XLR3-31 Type*
WORD CLOCK	IN	—	BNC Connector
	OUT		
CONTROL	—	Open Collector	D-Sub Connector 25P (Female)
REMOTE	—	RS422	D-Sub Connector 9P (Male)
METER	—		D-SUB Connector 15P (Female)

