01V96VCM

Digital Mixing Console

01V96VCM

13U

Rear Panel

Still Small and Professional —Now with VCM Effects.

- Precise 24-bit/96-kHz audio and high-performance head amps.
- Generous mixing capacity with up to 40 simultaneous inputs and 20 mix buses (20 buses: a main stereo program bus, 8 individual mixing buses, 2 solo buses, and 8 auxiliary buses) in a compact rack-size mixer.
- Digital I/O via 8-channel optical ADAT and coaxial 2-track inputs and outputs.
- I/O expansion slot accepts mini-YGDAI cards for up to 16 additional channels of I/O in a variety analog or digital formats.
- Powerful channel functions with flexible control and digital patching capability.
- Four advanced multi-effect processors at 44.1/48 kHz, or two at 88.2/96 kHz
- Comprehensive interface with large LCD, 100-mm motor faders, and dedicated scene memory keys.
- Versatile channel pairing and grouping functions enhance mixing efficiency.
- 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.
- Cascade Link function allows two 01V96 consoles to be connected to provide up to 80 input channels.
- A new dimension of production power with the addition of Yamaha VCM Channel Strip and Rev-X effects.

OPTIONS

RK-1	AE-021	AE-051
Rack-mount Kit	MASTER STRIP	VINTAGE STOMP

01V96VCM

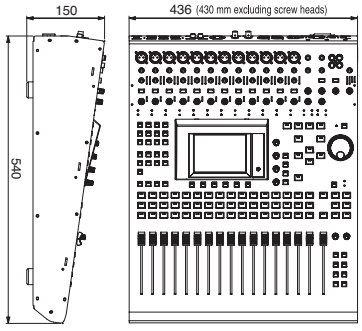
GENERAL SPECIFICATIONS

Internal processing	32bit (Accumulator 58bit)
Number of scene memories	99
Sampling frequency	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 1.6ms CH INPUT to STEREO OUT (@fs=48kHz) Less than 0.8ms CH INPUT to STEREO OUT (@fs=96kHz)
Total harmonic distortion *1 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)
Frequency response 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)
Dynamic range (maximum level to noise level)	110dB typ. DA Converter (STEREO OUT) 105dB typ. AD+DA (to STEREO OUT)
Hum & noise level *2 (20Hz to 20kHz), Rs=150Ω	-128dBu Equivalent Input Noise. -86dBu residual output noise. STEREO OUT(STEREO OUT off.)
Input Gain=Max Input Pad=0dB	-86dBu (90dB S/N)STEREO OUT(STEREO fader at nominal level and all CH INPUT faders at minimum level.)
Input Pad=0dB Input Sensitivity=-60dB	-64dBu (68dB S/N) STEREO OUT (STEREO fader at nominal level andone CH INPUT fader at nominal level)
Crosstalk (@1kHz) Input GAIN=min	-80dB adjacent input channels (CH1-12) -80dB adjacent input channels (CH13-16) -80dB input to output
Power requirements	Japan: AC100V 50/60Hz, 90W North America: AC120V, 60Hz, 90W Other Areas: AC220-240V, 50/60Hz, 90W
Dimensions (W x H x D)	436 x 150 x 540mm (16-15/16" x 5-5/16" x 21-1/4")
Weight	15.0kg (33.1lbs.)

*1 Total Harmonic Distortion is measured with a 6dB/octave filter @80kHz.
*2 Hum & Noise are measured with a 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 1 to 12	0	-60dB	3kΩ	50-600Ω Mics & 600Ω Lines	-70dBu	-60dBu	-40dBu	A:XLR-3-31 type* B:TRS Phone jack*
		-16dB			-26dBu	-16dBu	+4dBu	
	20				-6dBu	+4dBu	+24dBu	
CH INPUT 13 to 16		-26dB	10kΩ	600Ω Lines	-36dBu	-26dBu	-6dBu	TRS Phone jack*
		+4dB			-6dBu	+4dBu	+24dBu	
CH INSERT IN 1 to 12			10kΩ	600Ω Lines	-12dBu	-2dBu	+18dBu	TRS Phone jack**
2TR IN [L,R]			10kΩ	600Ω Lines	-10dBV	-10dBV	+10dBV	RCA Pin jack**

ANALOG OUTPUT SPECIFICATIONS

Output Terminal	Actual Source Impedance	For Use With Nominal	Output Level		Connector
			Nominal	Max. before Clip	
STEREO OUT (L,R)	150Ω	600Ω Lines	+4dBu	+24dBu	XLR-3-32 type*
OMNI OUT 1 to 4	150Ω	10kΩ Lines	+4dBu	+24dBu	TRS Phone jack*
MONITOR OUT (L,R)	150Ω	10kΩ Lines	+4dBu	+24dBu	TRS Phone jack*
CH INSERT OUT 1 to 12	600Ω	10kΩ Lines	-2dBu	+18dBu	TRS Phone jack**
2TR OUT (L,R)	10KΩ	600Ω Lines	-10dBV	+10dBV	RCA Pin jack**
PHONES	100Ω	8Ω Lines	4mW	25mW	ST Phone jack**
		40Ω Lines	12mW	75mW	

DIGITAL INPUT SPECIFICATIONS

Terminal	Format	Data Length	Level	Connector
2TR IN DIGITAL	IEC-60958	24bit	0.5Vpp/75Ω	RCA Pin Jack
ADAT IN	ADAT	24bit	-	OPTICAL

DIGITAL OUTPUT SPECIFICATIONS

Terminal	Format	Data Length	Level	Connector
2TR OUT DIGITAL	IEC-60958 Consumer use	24bit	0.5Vpp/75Ω	RCA Pin Jack
ADAT OUT	ADAT	24bit	-	OPTICAL

CONTROL I/O SPECIFICATIONS

I/O Port		Format	Level	Connector in Console
TO HOST USB		USB	0V - 3.3V	B type USB connector
MIDI	IN	MIDI	-	DIN Connector 5P
	OUT	MIDI	-	DIN Connector 5P
	THRU	MIDI	-	DIN Connector 5P
WORD CLOCK	IN	-	TTL/75Ω	BNC Connector
	OUT	-	TTL/75Ω	BNC Connector

BLOCK DIAGRAM