

# 01V96i

## Digital Mixing Console



01V96i



Rear Panel



A compact, comprehensive live sound solution with 16 in/16 out audio streaming.

- 16 in/16 out live audio streaming at 96kHz via USB2.0 for direct multitrack recording and playback.
- 24bit/96kHz performance with improved studio-quality head amps.
- Full suite of Yamaha VCM effects and high-resolution REV-X reverbs.
- 96kHz internal effects and top-quality compression, gating and delay.
- Powerful mixing capacity with up to 40 inputs and 20 buses at 96kHz.
- I/O expansion slot accepts mini-YGDAI cards for up to 16 additional channels of I/O in a variety of analog or digital formats.
- Cascade Link function allows two 01V96i consoles to be connected to provide up to 80 input channels.
- Precision 100mm motor faders and scene memory with recall safe and global paste functions.
- Bundled with the latest Cubase AI.
- Compatible with both Windows or Macintosh versions of 01V96i Editor for offline data management and online control.

### OPTIONS

#### RK-1

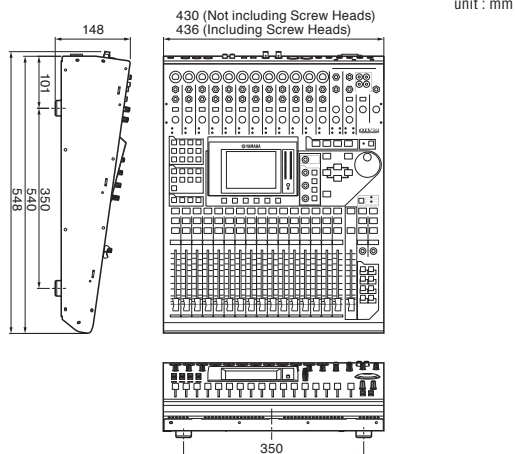
Rack-mount Kit

## 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: USB audio Normal rate 44.1kHz ±0.1% 48kHz ±0.1% Double rate 88.2kHz ±0.1% 96kHz ±0.1% The others 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 (STEREO OUT) 105 dB typ, AD+DA (to STEREO OUT) @fs=48 kHz 105 dB typ, AD+DA (to STEREO OUT) @fs=96kHz
<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, STEREO OUT(STEREO OUT off) -86dBu(90dB S/N) STEREO OUT(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)
<b>Crosstalk</b> (@1kHz) Input Gain=Min.	-80dB adjacent input channels (CH1-12) -80dB adjacent input channels (CH13-16) -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>	90W
<b>Dimensions (W x H x D)</b>	436 x 148 x 548mm (16-15/16" x 5-7/8" x 21-1/4")
<b>Weight</b>	14.0kg (30.86lbs.)

\*1 Total harmonic distortion is measured with a 6dB/octave 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



## ANALOG INPUT SPECIFICATIONS

Input terminal	Actual source impedance		For use with nominal	Input level			Connector	
	PAD	GAIN		Sensitivity*1	Nominal	Max. before clip		
CH INPUT 1-12	0	-60dB	3kΩ	50-600Ω Mics & 600Ω Lines	-70dBu	-60dBu	-40dBu	A:XLR3-31 type**2 B:TRS Phone Jack*
	20	-16dB			-26dBu	-16dBu	+4dBu	
CH INPUT 13-16		-26dB	10kΩ	600Ω Lines	-6dBu	+4dBu	+24dBu	TRS Phone Jack**3
		+4dB			-36dBu	-26dBu	-6dBu	
CH INSERT IN 1-12			10kΩ	600Ω Lines	-12dBu	-2dBu	+18dBu	TRS Phone Jack**4
2TR IN [L,R]			10kΩ	600Ω Lines	-10dBV	-10dBV	+10dBV	RCA Pin Jack**

\*1 Sensitivity is the lowest level that will produce an output of +4dB (1.23V) or the nominal output level when the unit is set to maximum gain. (All faders and level controls are maximum position.)

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

\*\*3 Phone jacks are balanced (Tip=HOT, Ring=COLD, Sleeve=GND).

\*\*4 CH INSERT IN/OUT phone jacks are unbalanced (Tip=OUTPUT, Ring=INPUT, Sleeve=GND).

## ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual source impedance	For use with nominal	Output terminals		Connector
			Nominal	Max. before clip	
STEREO OUT[L,R]	75Ω	600Ω Lines	+4dBu	+24dBu	XLR3-32 type**1
OMNI OUT 1-4	150Ω	10kΩ Lines	+4dBu	+24dBu	TRS Phone Jack**3
MONITOR OUT[L,R]	150Ω	10kΩ Lines	+4dBu	+24dBu	TRS Phone Jack**3
CH INSERT OUT 1-12	600Ω	10kΩ Lines	-2dBu	+18dBu	TRS Phone Jack**3
2TR OUT[L,R]	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA Pin Jack
PHONES	100Ω	8Ω Phones	4mW	25mW	ST Phone Jack**4
		40Ω Phones	12mW	75mW	

\*1 XLR-3-32 type connectors or balanced (1=GND, 2=HOT, 3=COLD).

\*\*2 Phone jacks are balanced (Tips=HOT, Ring=COLD, Sleeve=GND).

\*\*3 CH INSERT IN/OUT phone jacks are unbalanced (Tip=OUT, Ring=INPUT, Sleeve=GND).

\*\*4 PHONES stereo phone jack is unbalanced (Tip=LEFT, Ring=RIGHT, Sleeve=GND).

## 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

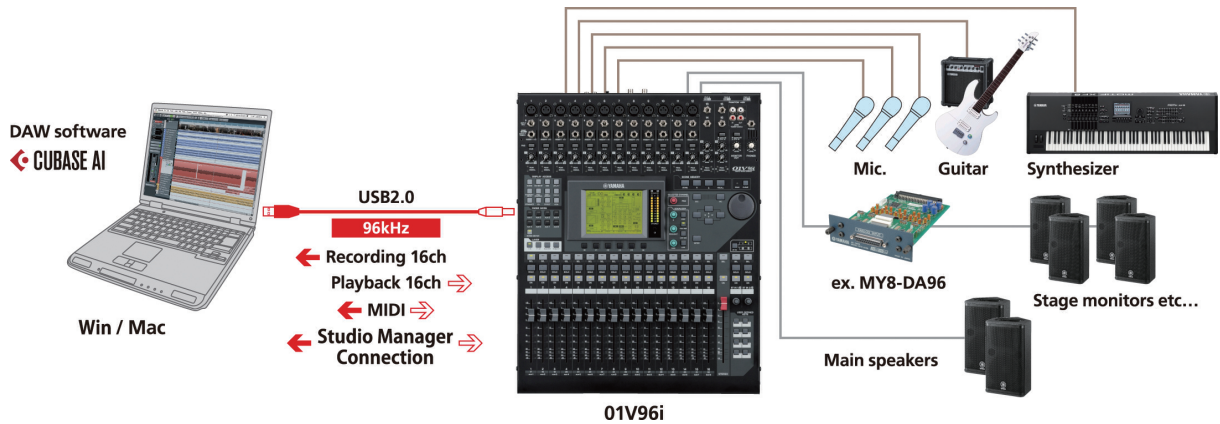
## DIGITAL INPUT/OUTPUT SPECIFICATIONS

Terminal	Format	Data length	Level	Connector
USB	USB2.0	24bit	—	B Type USB Connector

## CONTROL I/O SPECIFICATIONS

Terminal	Format	Level	Connector	
TO HOST USB	USB 2.0	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

SYSTEM EXAMPLE



BLOCK DIAGRAM

