

Overview

The 01V96i delivers the performance and reliability of Yamaha's acclaimed digital live sound and production consoles in a remarkably compact design for home and professional applications where space is limited or maximum portability is required.



Rear Panel

Features

- 16 in/16 out live audio streaming at 96kHz via USB2.0 for direct multitrack recording and playback.
- 24-bit/96-kHz performance with improved studio-quality head amps.
- A variety of Yamaha VCM effects and high-resolution REV-X reverbs.
- 96-kHz 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-YGDAl 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 version of Cubase AI.
- Compatible with both Windows or Macintosh versions of 01V96i Editor for offline data management and online control.

Specifications

1/2

Functional Specifications

Mixing Capacity	Input Mixing Channels	32 mono + 4 stereo	
	AUX Buses	8	
	Group Buses	8	
	Matrices	0	
	Stereo Buses	1	
	Mono Buses	0	
	Cue Bus	1 (Solo)	
Local Connectors	Analog Input	XLR	12 (Input A)
		TRS	4 (Input 13-16), 12 (Input B 1-16)
		RCA pin	1 (2 TR In Analog)
	Analog Output	XLR	1 (Stereo Out)
		TRS Phone	4 (Omni Out)
		RCA pin	1 (Stereo Out)
	MY Slots	1	
	ADAT I/O	1	
	Digital In	AES/EBU	0
		Coaxial (IEC 60958)	1
	Digital Out	AES/EBU	0
		Coaxial (IEC 60958)	1
	GPI	0	
	Word Clock I/O	In / Out	
	MIDI I/O	In / Out	
	USB TO HOST	1	
	Meter Bridge	No	
	Ethernet	No (Control via USB TO HOST)	
	Lamp	0	
	Talkback In	0	
	Video Out	No	
	TC In	No	
Fault Output	No		
Phones	1		
AC Inlet	1		
Scene Memory	Number of Scenes	99	
	Recall Safe	Yes	
	Focus Recall	No	
	Fade Time	Yes	
	Preview	No	
	Selective Load / Save	No	
	Global Paste	Yes	
	Event List	No	
	Overlay	No	
	Isolate	No	
Tactile Control Keys	Yes		
Input Channel Functions	Gain Compensation	No	
	Silk	No	
	Digital Gain	No	
	ATT	Yes	
	HPF	21.2Hz ~ 20kHz	
	PEQ	4 Band Full PEQ	
	Dynamics 1	Gate	
	Dynamics 2	Comp	
	Input Delay	Yes	
	Pan	CENTER NOMINAL or LR NOMINAL	
	DCA Group	0 (8 Fader Group Master)	
DCA Rollout	No		
Input Channel Functions	MUTE Group	8 (Mute Group Master)	
	Number of Inserts	1	
	Direct Out	Yes	
Output Channel Functions	PEQ	4 Band Full PEQ	
	GEQ	No	
	Dynamics 1	Compressor	
	Output Channel Delay	Yes	
	MUTE Group	0 (4 Mute Group Master)	
	Number of Inserts	1	
FX	Quick Pro Preset	No	
	Number of FXs	4	
GEQ	Number of FX Programs	56	
	Available Channels	No	
Recording	USB Memory Recording	No	
	DVS Recording	No	
	USB Audio Stream	Yes	
Broadcast Functions	5.1 Surround Panning	Yes	
	Surround Monitor	No	
	Mix Minus	No	
	L-Mono / R-Mono / LR-Mono	No	
Monitor	Solo Mode	Yes (Mixdown Solo)	
	Oscillator	Sine 100Hz / Sine 1kHz / Sine 10kHz / Pink Noise / Burst Noise	
Other Functions	Port to Port	No	
	Dual Console	No	
	Timecode Reader/Display	No	
	Timecode Chase (Event List)	No	
	Automix	No	
	GPI/MIDI	MIDI only	
	Wireless Mic Monitoring	No	
	RTA	No	
	Output Port Delay	No	
	Cascade	No	
	User Level	No	
	Help File	No	
	Channel Link	No	
	User Interface	Display	Non-touch display
Centralogic Section		No	
Faders		16+1	
Selected Channel Encoders		PEQ (controls for a selected band), Pan	
Channel Encoder		No	
Channel Name / Color Display		No	
Custom Fader Banks		Yes (User Assignable Layer)	
User Defined Keys		8	
User Defined Knobs		No	
Touch and Turn Knob		No	
Software	Monitor Level Knob	Yes	
	Rack-mounting	Yes	
	Editor	01V96i Editor running on Studio Manager V2	
	StageMix	No	
	MonitorMix	No	
	Nuendo Live: Control integration	No	
Console File Converter	No		

Specifications

General Specifications

Internal processing	32bit (Accumulator=58bit)
Number of scene memories	99
Sampling frequency rate	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%
Signal Delay	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)
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) 105 dB typ. AD+DA (to STEREO OUT) @fs=48 kHz 105 dB typ. AD+DA (to STEREO OUT) @fs=96kHz
Hum & noise level*2 (20Hz to 20kHz), Rs=150Ω	-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)
Crosstalk (@1kHz) Input Gain=Min.	-80dB adjacent input channels (CH1-12) -80dB adjacent input channels (CH13-16) -80dB input to output
Phantom Power	+48V
Power requirements	Japan: AC100V 50/60Hz North America: AC120V, 60Hz Other Areas: AC220-240V, 50/60Hz
Power consumption	90W
Dimensions (W x H x D)	436mm x 148mm x 548mm (17.2" x 5.8" x 21.6")
Weight	14.0kg (30.86lbs)

*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.

*3 Crosstalk is measured with a 30 dB/octave filter @22kHz.

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	-36dBu	-26dBu	-6dBu	TRS Phone Jack ³
		+4dB			-6dBu	+4dBu	+24dBu	
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

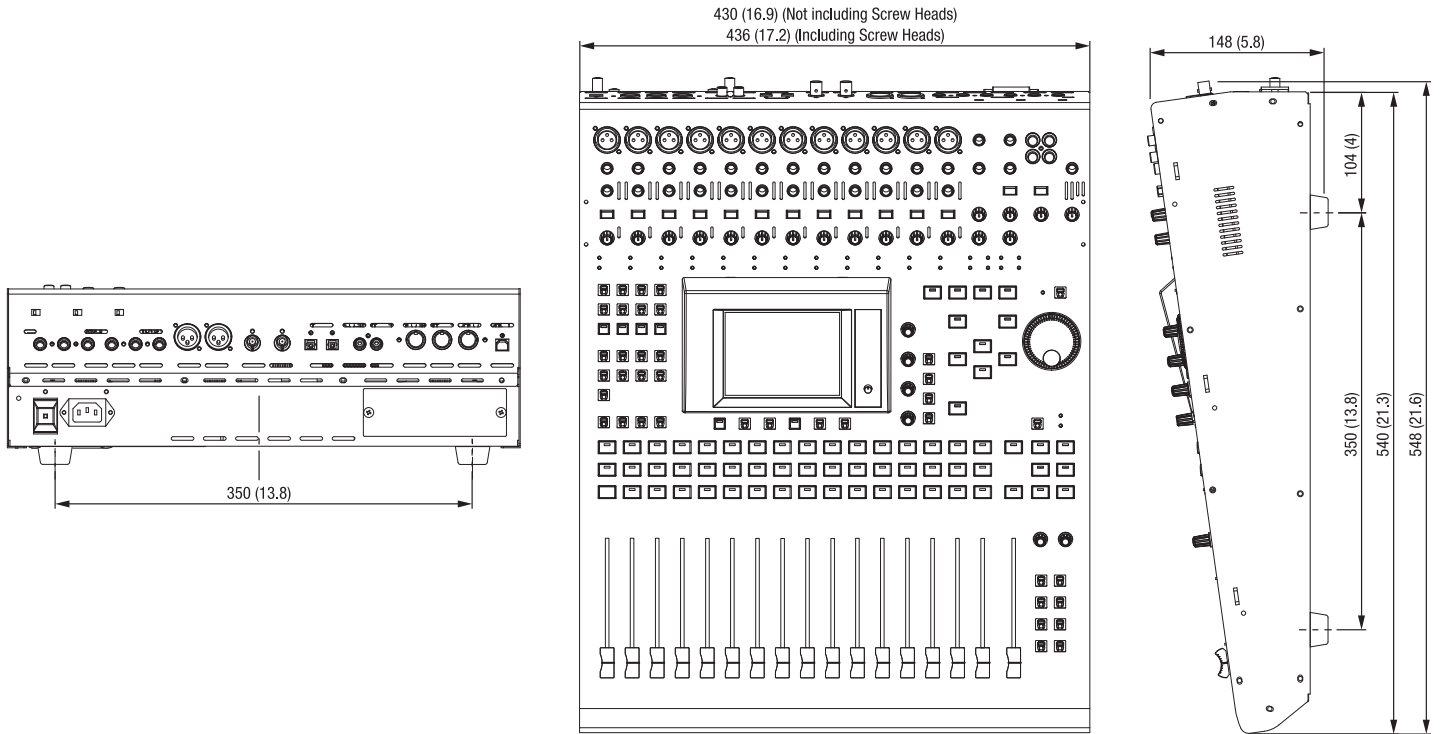
Terminal	Format	Data length	Level	Connector
USB	USB2.0	24bit	—	B Type USB Connector

Control I/O Specifications

Terminal	Format	Level	Connector
TO HOST USB	USB 2.0	0V - 3.3V	B Type USB Connector
MIDI	IN	MIDI	—
	OUT	MIDI	—
	THRU	MIDI	—
WORD CLOCK	IN	—	T TL / 75Ω
	OUT	—	T TL / 75Ω

Dimensions

Unit: mm (inch)



Options

- Rack Mount Kit RK1

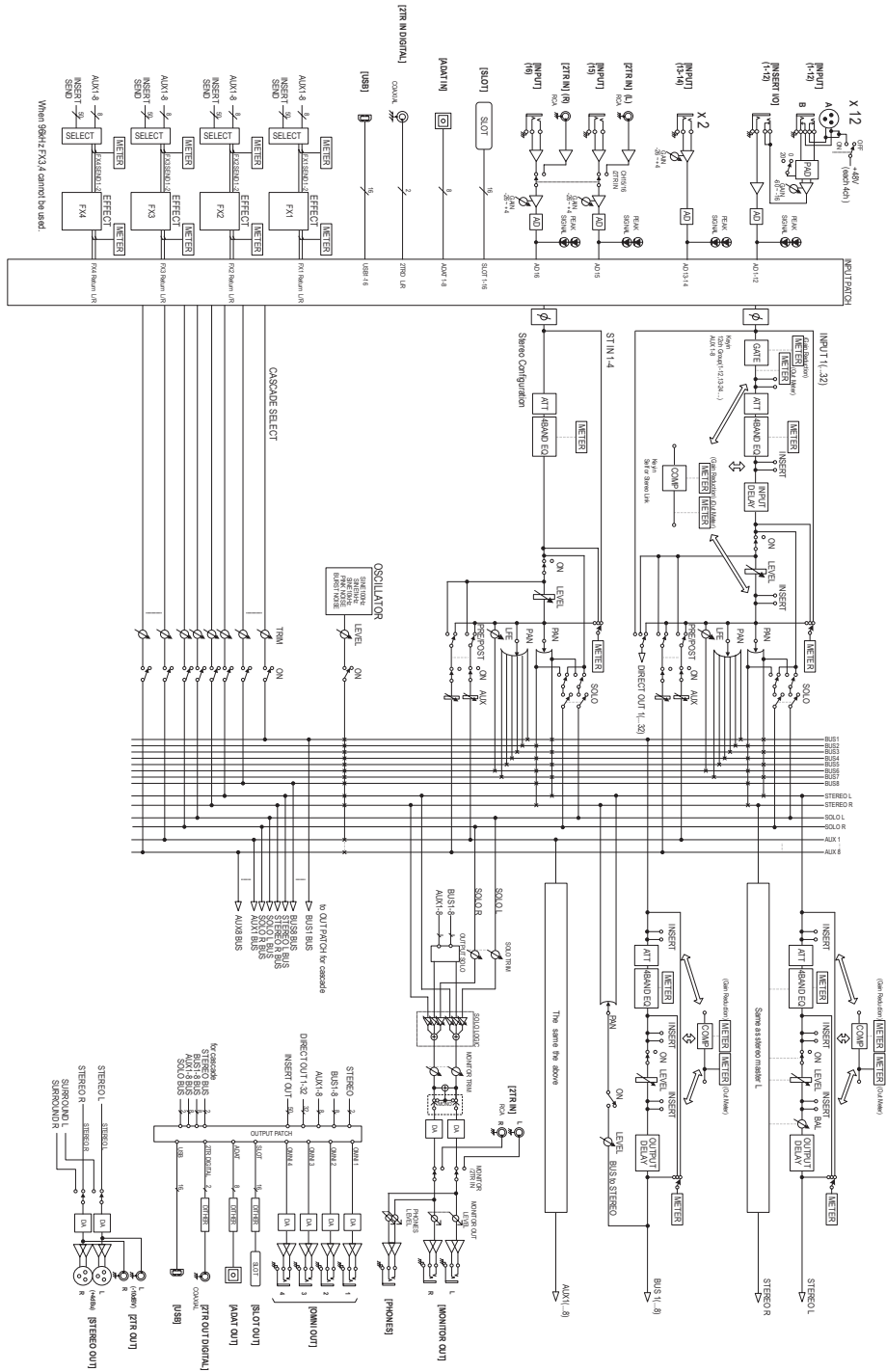
Software

- Studio Manager V2
- 01V96i Editor
- Steinberg Cubase AI

Architectural and Engineering Specifications

The Yamaha 01V96i Digital Mixing Console shall operate at up to a 96kHz sampling frequency and provide versatile mixing capability. With 16 + 1 (Master) faders it shall provide a mixing capacity of up to 40 mono inputs, 8 groups, and 8 auxiliary buses. It shall provide 4 powerful effect processors that allow selection of VCM effects, REV-X reverb effects, and more. All mono input channels shall include gate, compressor, 4-band PEQ, delay, and other facilities. It shall also allow 16-in/16-out USB audio streaming and come supplied with “Cubase AI” DAW software that allows digital multitrack recording and playback. Local I/O shall include 12 microphone/line inputs, 4 line inputs, 12 inserts, 4 outputs (TRS phone), 2TR I/O (RCA), stereo output, monitor output, ADAT I/O, IEC-60957 I/O, a Mini-YGDAI slot, word clock I/O, MIDI I/O, and USB host connectors. Dimensions shall be 436 (W) x 148 (H) x 548 (D) mm. Weight shall be 14 kg.

Block Diagrams



*All information subject to change without notice.
 *All trademarks and registered trademarks are property of their respective owners.
 Created in March, 2017