

# 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

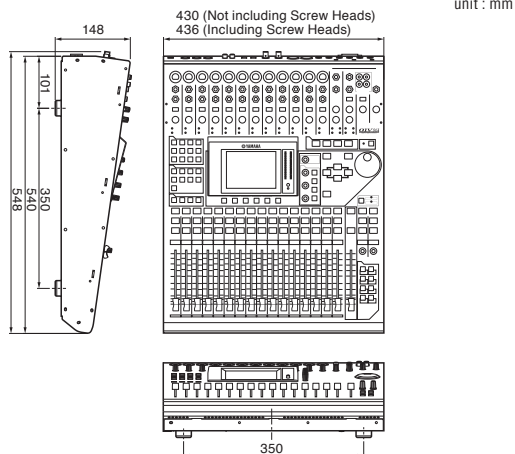
Rack-mount Kit

## 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<br>External: USB audio Normal rate 44.1kHz ±0.1%<br>48kHz ±0.1%<br>Double rate 88.2kHz ±0.1%<br>96kHz ±0.1%<br>The others Normal rate 44.1kHz -10% to 48kHz +6%<br>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)<br>Less than 0.8 ms CH INPUT to STEREO OUT (@fs=96 kHz)  |
| <b>Total harmonic distortion**1</b><br>CH INPUT to STEREO OUT<br>Input Gain=Min.   | Less than 0.05%, 20Hz to 20kHz @+14dBu into 600Ω<br>Less than 0.01%, 1kHz @+24dBu into 600Ω<br>(@fs=48kHz)<br>Less than 0.05%, 20Hz to 40kHz @+14dBu into 600Ω<br>Less than 0.01%, 1kHz @+24dBu into 600Ω<br>(@fs=96kHz)  |
| <b>Frequency response</b><br>CH INPUT to STEREO OUT  | 20Hz - 20kHz, 0.5, -1.5dB, @+4dBu into 600Ω (@fs=48kHz)<br>20Hz - 40kHz, 0.5, -1.5dB, @+4dBu into 600Ω (@fs=96kHz)  |
| <b>Dynamic range</b><br>(maximum level to noise level)   | 110dB typ, DA Converter (STEREO OUT)<br>105 dB typ, AD+DA (to STEREO OUT) @fs=48 kHz<br>105 dB typ, AD+DA (to STEREO OUT) @fs=96kHz   |
| <b>Hum &amp; noise level**2</b><br>(20Hz to 20kHz)<br>Rs=150ohms<br>Input Gain=Max<br>Input Pad=0dB<br>Input Sensitivity=-60dB | -128dBu Equivalent Input Noise<br>-86dBu residual output noise, STEREO OUT(STEREO OUT off)<br>-86dBu(90dB S/N) STEREO OUT(STEREO fader at nominal level<br>and all CH INPUT faders at minimum level)<br>-64dBu(68dB S/N) STEREO OUT(STEREO fader at nominal level<br>and one CH INPUT fader at nominal level) |
| <b>Crosstalk</b> (@1kHz)<br>Input Gain=Min.  | -80dB adjacent input channels (CH1-12)<br>-80dB adjacent input channels (CH13-16)<br>-80dB input to output  |
| <b>Phantom Power</b>   | +48V  |
| <b>Power requirements</b>  | Japan: AC100V 50/60Hz<br>North America: AC120V, 60Hz<br>Other Areas: AC220-240V, 50/60Hz  |
| <b>Power consumption</b>   | 90W   |
| <b>Dimensions</b> (W x H x D)  | 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<br>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

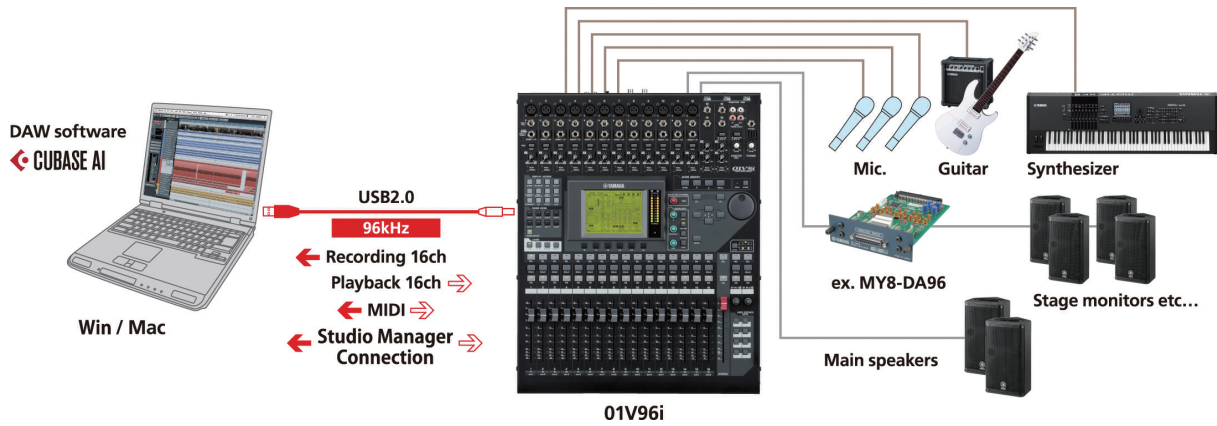
| Terminal        | Format                   | Data length | Level      | Connector    |
|-----------------|--------------------------|-------------|------------|--------------|
| 2TR OUT DIGITAL | IEC-60958 (Consumer Use) | 24bit       | 0.5Vpp/75Ω | RCA Pin Jack |
| ADAT OUT        | ADAT                     | 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    |



BLOCK DIAGRAM

