



## FEATURES

- 48 touch-sensitive channel faders
- Touch & Spin mix control
- Fully integrated EAW Smart analysis
- 3 x 12 system processor
- 48 digitally controlled mic preamps
- 16 x 8 Matrix Plus with individually selectable input sources
- Internal hard drive for unlimited snapshot/venue/preset storage
- Selected channel section - control of all channel parameters
- Customizable user banks and per-channel V-Pot controls

## DESCRIPTION

The new UMX.96 digital console offers 24-bit, 96-kHz performance with expandable 56 x 44 analog I/O, 3 x 12 integrated system processing, and the first full integration of the Smart measurement and analysis platform.

The master section combines a 15-inch touch-sensitive LCD display with a tactically dynamic rotary encoder that is able to change its "feel" depending on the specific parameter selected via the touch screen. The master section also incorporates 8 Penny & Giles VCA faders that bring the VCA masters or other desired channels to the center of the mixer for convenient access.

The channel section of the UMX.96 includes 48 Penny & Giles touch-sensitive faders arranged in 2 stacked rows of 24. These provide dedicated control of all 48 input channels simultaneously or can be assigned in master groups of 8 to specific sections. Tri-color Channel Assign buttons provide at-a-glance indication of current channel assign functions for Mute Groups, VCAs, Aux/Groups,

internal effects, and more, with each group of 8 channels offering an associated scribble strip that displays the custom channel name and V-Pot (virtual potentiometer) information.

The 3 x 12 system processor offers EQ, crossover, delay and limiter algorithms, allowing multi-way system alignment, audio distribution and zoning directly from the mixer. Recallable presets allow the user to optimize crossover, EQ and alignment settings. Powerful internal hard drive memory provides virtually unlimited snapshot, venue, and preset storage.

The Smart measurement capabilities provide instant system measurement and calibration. When selected, an input or output feeds Smart, which in turn provides measurement data on the EQ screen in order to show the instant effects of the EQ on the signal. The user can choose to view this information in RTA or Spectrograph form. An LCD SPL meter provides constant dB-SPL display from the supplied RTA-420 measurement mic.

The standard UMX.96 configuration includes 48 digitally controlled mic preamps with balanced TRS send and return inserts and a TRS direct output. Each input channel has a gate, compressor, and 4-band EQ with dedicated HPF and LPF, while outputs feed a 4-band EQ, compressor/limiter, and 31-band graphic EQ which can also display Smart information. Eight stereo line inputs on dual XLR connectors feed a stereo compressor and EQ.

The 16 x 8 Matrix Plus facilitates digital patching of any input or bus signal into the matrix. The system processor outputs are typically fed by the Left, Right and Center outputs, but these offer flexible routing of any output signal to any of the 12 XLR outputs.

The modular design of the UMX.96 has been conceived with easy field serviceability in mind, and the console's external power supply offers standard redundant operation.

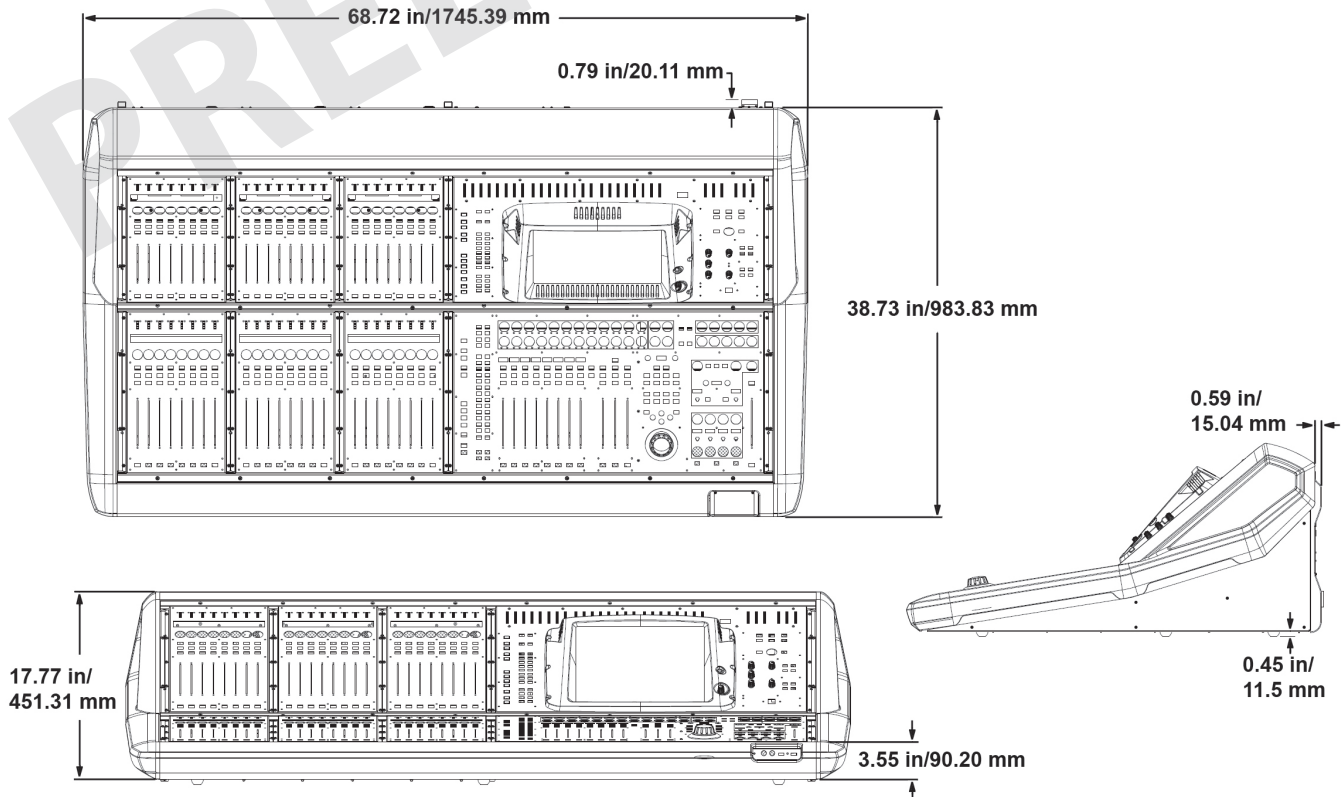
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## DIGITAL CONSOLE

<b>INPUT POWER</b>	1000W, 90-264V AC, 47-63 Hz (dual redundant standard)
<b>SAMPLE RATES</b>	44.1k, 48k, 88.2k, 96k
<b>FADERS</b>	100mm motorized optical P & G 48 input + 8 VCA + 3 LRC + 1 selected channel 1024 steps, -inf to +10dB
<b>LATENCY</b>	3.1ms, speaker processor bypassed 3.6ms, speaker processor engaged (both analog mic in to analog main out)
<b>DSP RESOLUTION</b>	32 and 40-bit floating point
<b>FREQUENCY RESPONSE</b>	20Hz -20kHz, +/-0.5dB
<b>THD + N</b>	<0.004%, mic in to main out @ 1kHz typical use: input = -15 dBu; mic gain = +31 dB
<b>DYNAMIC RANGE</b>	DA: 110 dB, main out @ 96kHz DA: 114 dB main out @ 48kHz AD+DA: 105 dB, mic in to main out @ 96kHz AD+DA: 109 dB, mic in to main out @ 48kHz (both up to +45 dB mic gain)

<b>VOLTAGE GAIN</b>	89 dB, mic in to main out
<b>RESIDUAL OUTPUT NOISE</b>	-90 dBu, 20Hz - 20kHz (all inputs muted)
<b>PHANTOM POWER</b>	+48V, digitally controlled on individual channels
<b>MAX INPUT LEVEL</b>	+30 dBu, pad in
<b>PAD</b>	23 dB, digitally controlled
<b>MIC PRE GAIN</b>	+15 to +70 dB, 1 dB steps, pad out -8 to +47 dB, 1 dB steps, pad in (both digitally controlled)
<b>INPUT IMPEDANCE</b>	1.5k Ohm, mic in, pad out 3.1k Ohm, mic in, pad engaged 10k Ohm, inserts, returns, and stereo inputs
<b>EIN</b>	-130 dBu, 150 Ohm source, pad out -127 dBu, any input impedance, pad in

## DIMMENSIONS



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