



# StudioLive RML16AI/32AI

## Computer system requirements:

Below are the minimum computer-system requirements for UC Surface, QMix-UC, and Studio One®.

### 1. Mac

- Mac® OS X 10.8.5 64-bit or later
- Intel® Core™ 2 Duo processor (Intel Core i3 or faster recommended)
- 4 GB RAM (8 GB or more recommended)

### 2. Windows

- Windows® 7 x64/x86 SP1 + platform update, Windows 8.1 x64/x86, Windows 10 x64/x86
- Intel Core 2 Duo (Intel Core i3 or faster recommended)
- 4 GB RAM (8 GB or more recommended)

### 3. Mac and Windows Systems

- USB 2.0 port
- Internet connection
- Internal or external 7200 RPM storage drive highly recommended
- 30 GB hard disk space
- Monitor with 1366x768 resolution

## 4. iOS

- iOS 9.3 or later
- iPad Pro, iPad Air 2, iPad Air, iPad mini 4, iPad mini with Retina display, iPad (4th generation), iPad mini, iPad (3rd generation), iPad 2

## 5. Android

- Android™ 5.0 (Lollipop) or later
- Android smartphone (QMix-UC)
- Android tablet (8-inch) with 1024x768 resolution (UC Surface)

Note: The minimum system requirements may differ for DAWs other than Studio One. Please check the requirements for your DAW of choice with its manufacturer.

Note that the speed of your processor, amount of RAM and size and speed of your hard drive will greatly affect the overall performance of your recording system. Also, a more powerful system (faster processor with more RAM) will allow for lower latency (signal delay) than you might experience while monitoring audio signals.

## Technical Specifications

### Microphone Preamp

Input Type	24 locking XLR Female, balanced; 8 combo locking XLR mic-¼" TRS line
Frequency Response to Direct Output (at unity gain)	20-40 kHz, ±0.5 dBu
Frequency Response to Main Output (at unity gain)	20-20 kHz, ±0.5 dBu
Input Impedance	1 kΩ
THD to Main Output (1 kHz at unity gain)	0.005%, +4 dBu, 20-20 kHz, unity gain, unwt'd
S/N Ratio to Main Output (Ref = +4 dB, 20 kHz BW, unity gain, A-wtd)	94 dB
Common Mode Rejection Ratio (1 kHz at unity gain)	65 dB
Gain Control Range (±1 dB)	0 dB to +65 dB
Maximum Input Level (unity gain)	+22 dBu
Phantom Power (±2 VDC)	48 VDC, switchable per channel

### Line Inputs

Type	¼" TRS Female (via Combo), Balanced
Maximum Input Level (min. gain, 1 kHz@0.5% THD+N)	+ 18 dBu, ±0.5 dB
Frequency Response (A-D)	20 Hz to 20 kHz, ±0.2 dB
Dynamic Range (min. gain, A-wtd)	> 114 dB
Dynamic Range (mid. gain, unwtd)	> 105 dB
THD+N (1 kHz, -1 dBFS, A-wtd)	< 0.005%
Input Impedance	10 kΩ
<b>Tape Inputs</b>	
Type	RCA Female, unbalanced (stereo pair)
Maximum Input Level	+12 dBu
<b>Main Outputs</b>	
Type	XLR Male, balanced
Rated Output Level	+24 dBu
Output Impedance	100Ω
<b>Mix Outputs</b>	
Type	XLR Male, balanced
Rated Output Level	+24 dBu
Output Impedance	100Ω
<b>Headphone Output</b>	
Type	¼" TRS Female, active stereo
Maximum Output	100 mW/ch. @ 60Ω load
Frequency Response	20 Hz – 20 kHz (± 0.5 dB)
THD+N	0.01%, 1 kHz, max gain, 20 Hz BW, unwtd
S/N Ratio	96 dB, 1 kHz, max gain, 20 Hz BW, unwtd
<b>System Crosstalk</b>	
Input to Output	-90 dB (Ref = +4 dBu, 1 kHz, unwtd)
Adjacent Channels	-87 dB (Ref = +4 dBu, 1 kHz, unwtd)
<b>Noise Gate / Expander</b>	
Threshold Range	-84 dB to 0 dB

Attack Time	0.02s to 500 ms / 0.5 ms
Release Time	0.05s to 2s
Expander Attenuation Range	2:1 (fixed)
Noise Gate Attenuation Range	-84 to 0 dB
Key Filter	2--order, resonant bypass; Q=0.7
Key Listen	Off, 40 Hz to 16 kHz

### Compressor

Threshold Range	-56 dB to 0 dB
Ratio	1:1 to 14:1
Attack Time	0.2 ms to 150 ms
Release Time	40 ms to 1,000 ms
Auto Attack and Release	Attack = 10 ms, Release = 150 ms
Curve Types	hard and soft knee

### Limiter

Threshold	-56 dB to 0 dB / -28 dBFS
Ratio	$\infty$ :1
Attack	20 ms
Hold	10 ms
Release	20 ms

### Parametric EQ

Type	2--order shelving filter
Low (Lowpass or Bandpass)	36 to 465 Hz, $\pm 15$ dB
Low Mid (Bandpass)	90 Hz to 1.2 kHz, $\pm 15$ dB
High Mid (Bandpass)	380 Hz to 5 kHz, $\pm 15$ dB
High (Highpass or Bandpass)	1.4 kHz to 18 kHz, $\pm 15$ dB
Q (sweepable for each band)	0.1 to 4 / Low Q= 0.55, Hi Q=2.0

### Graphic EQ

31-Band 1/3-Octave Controls	Center frequencies (Hz): 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 320, 400, 500, 640, 800, 1k, 1.3k, 1.6k, 2k, 2.5k, 3.2k, 4k, 5k, 6.4k, 8k, 10k, 13k, 16k, 20k. Each band has a constant Q.
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Gain/Attenuation	±15 dB
<b>Digital Audio</b>	
ADC Dynamic Range	118 dB (A-wtd, 48 kHz)
DAC Dynamic Range	118 dB (A-wtd, 48 kHz)
FireWire	S800, 800 Mb/s
S/PDIF Output	RCA Female
Internal Processing	32-bit, floating point
Sampling Rate	44.1, 48, 88.2, 96 kHz
A/D/A Bit Depth	24
Reference Level for 0 dBFS	+18 dBu
<b>Clock</b>	
Type	JetPLL™
Jitter	<20 ps RMS (20 Hz – 20 kHz)
Jitter Attenuation	>60 dB (1 ns in, 1 ps out)
<b>Power/Environmental</b>	
Connector	IEC
Input-Voltage Range	90 to 240 VAC
Power Requirements (continuous)	200W
Recommended Ambient Operating Temperature	0° to 40° Celsius / 32° to 104° Fahrenheit
<b>Physical</b>	
Rackspaces	4U
Height	7" (17.78 cm)
Width	19" (48.26 cm)
Depth	10.5" (26.67 cm)
Weight	22 lbs. (8.62 kg)

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