

Allen and Heath QU16 Digital Mixer

Mic/Line Inputs	Balanced, XLR and 1/4" TRS jack, fully recallable
Input Sensitivity	(XLR / TRS) -60 to +5dBu / -50 to +15dBu
Analogue Gain	-5 to +60dB, 1dB steps
Maximum Input	Level (XLR / TRS) +19dBu / +29dBu
Input Impedance	(XLR / TRS) $>5k\Omega$ / $>10k\Omega$
THD+N, Unity gain 0dB	0.0005% -89 dBu (20-20kHz, Direct Out @0dBu 1kHz)
THD+N, Mid gain +30dB	0.001% -83dBu (20-20kHz, Direct Out @0dBu 1kHz)
ST1, ST2 connector	Balanced, 1/4" TRS jack, half- normalled
ST3 connector	Unbalanced, stereo 3.5mm Mini Jack
Input Sensitivity (ST1, ST2 / ST3)	Nominal +4dBu / 0dBu
Trim	+/-24dB
Maximum Input Level (ST1,ST2 /ST3)	+22dBu / +18dBu
Input Impedance	$>7k\Omega$
Mix1-10 and LR Out	Balanced, XLR
Output Impedance	$<75\Omega$
Nominal Output	+4dBu 0dB meter reading
Maximum Output Level	+22dBu

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Residual Output Noise	-90 dBu (muted, 20-20kHz)
AES Digital Output	2 channel, 48kHz sampling rate, XLR, 2.5Vpp balanced terminated 110Ω SNAKE
Inputs	Remote source for CH1-32, ST1, ST2, ST3
Outputs	Patchable from Mix1-10, LR, Grp1-8, MTX1-4; Compatible with AudioRacks AR2412, AR84, AB168; Compatible with ME personal mixing system
System	Measured balanced XLR in to XLR out, 0dB gain, 0dBu input
Dynamic Range	112 dB
Frequency Response	+0/-0.5dB 20Hz to 20kHz
Headroom	+18dB
Internal operating Level	0dBu dBFS Alignment +18dBu = 0dBFS (+22dBu at XLR output)
Meter Calibration	0dB meter = -18dBFS (+4dBu at XLR out)
Meter Peak indication	-3dBFS (+19dBu at XLR out), multi- point sensing
Meter Signal indication	-48dBFS (-26dBu at XLR out)
Meter Type	Fast (peak) response
Sampling Rate	48kHz +/-100PPM
ADC, DAC	24-bit Delta-Sigma
Latency	1.2 ms (local XLR in to XLR out), 0.7 ms (local XLR in to AES out)
Operating Temperature Range	0 deg C to 35 deg C (32 deg F to 95 deg F)

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Mains Power	100-240V AC, 50/60Hz
Maximum Power Consumption	82W
Qu-Drive	USB A
Stereo Record	2 channel, WAV, 48kHz, 24-bit, patchable
Stereo Playback	2 channel, WAV, 44.1 or 48kHz, 16 or 24-bit, to ST3
Multitrack Record	18 channel, WAV, 48kHz, 24-bit, patchable
Multitrack Playback	18 channel, WAV, 48kHz, 24-bit
USB Audio Streaming	USB B, Core Audio compliant
Send (upstream)	24 channel, WAV, 48kHz, 24-bit
Return (downstream)	22 channel, WAV, 48kHz, 24-bit
Faders	100mm motorised
Touch Screen Qu-16, 24	5" TFT, 800×480 resolution
Soft Keys	4
Mute Groups	4
DCA Groups	4
Network	TCP/IP Ethernet for MIDI and iPad app
Source	CH1-32 Local, dSNAKE, or USB; ST1, ST2 Local, dSNAKE, or USB; ST3 Local, dSNAKE, or USB
Stereo	USB Global Source Qu-Drive or USB B Streaming
Stereo Linking	Odd/even input pairs