

Roland S-2416 24x16 Stage Unit

Number of Channels

32 in 24 out

AD Conversion

Sample Rate: 96.0 kHz, 48 kHz, 44.1 kHz
Signal Processing: 24 bits

DA Conversion

Sample Rate : 96.0 kHz, 48 kHz, 44.1 kHz
Signal Processing: 24 bits

Frequency Response

-2 dB / +0 dB (@ +4 dBu, 10 Hz to 40 kHz, Sample Rate : 96 kHz, typ.)

Total Harmonic Distortion + Noise

0.007 % (Pad: Off, Input Gain: -10 dBu, 20 Hz to 20 kHz, typ.)

Dynamic Range

INPUT jacks (1 to 24): 110 dB (typ.)

Channel Separation @ 1kHz

INPUT jacks (1 to 24): 103 dB (Input Gain: +4 dBu, IHF-A, typ.)
OUTPUT jacks (1 to 16): 110dB (typ.)

Nominal Input Level (Variable)

-65 to -10 dBu (PAD: Off)
-45 to +10 dBu (PAD: On)

Non Clip Maximum Input level

INPUT jacks (1 to 24): +28dBu (1 kHz, 10 k ohms load, typ.)

Input Impedance

INPUT jacks (1 to 24): 7 k ohms

Nominal Output Level

OUTPUT jacks (1 to 16): +4 dBu (Load impedance: 10 k ohms, typ.)

Maximam Output Level

OUTPUT jacks (1 to 16): +22 dBu (Load impedance: 10 k ohms, typ.)

Output Impedance

OUTPUT jacks (1 to 16): 600 ohms (typ.)

Recommended Load Impedance

OUTPUT jacks (1 to 16): 10 k ohms or greater

Residual Noise Level (IHF-A, typ.)

OUTPUT jacks (1 to 16): -84 dBu

Equivalent Input Noise Level (E.I.N.)

INPUT jacks (1 to 24): -128 dB (Input Gain: -65 dBu, IHF-A, typ.)

Network Latency

375 microseconds when using REAC cable only
(AD to REAC to DA Latency: about 1.2 ms) *1

Connectors

INPUT jacks (1 to 24): XLR type, balanced, phantom power

OUTPUT jacks (1 to 16): XLR type, balanced

AES/EBU connector: DB-25 type

REAC port: RJ-45 EtherCon type

WORD CLOCK connector: BNC type

REMOTE connector: DB-9 type

COMPUTER port: USB type B

* XLR type: 1 GND, 2 HOT, 3: COLD

* phantom power: DC+ 48V (unloaded maximum), 14mA (maximum load) (All XLR type inputs)

Power Consumption

62 W

Operation Temperature

+0 to +40 degrees Celsius

+32 to +104 degrees Fahrenheit

Accessories

Power cord, Owner's manual, Rubber foot x 4