

# **ROLAND M380**

## **NUMBER OF CHANNELS**

Number of Channels

48 inputs, 18 buses, 8 MATRIX, 58 out

## **AD/DA CONVERSION**

Sample Rate

48.0 kHz or 44.1 kHz

Signal Processing

24 bits

## **INTERNAL PROCESSING**

Internal processing

56 bits

## **FREQUENCY RESPONSE**

CONSOLE OUTPUT jacks (1 to 8)

-2 dB / +0 dB (20k ohms load, +4 dBu) \* Sample Rate: 48.0 kHz or 44.1 kHz  
\* Input Connector: CONSOLE INPUT (Pad: ON, Input gain: +4 dBu, 20 Hz to 20 kHz)

PHONES jack

-3 dB / +0 dB (40 ohms load, 130 mW) \* Sample Rate: 48.0 kHz or 44.1 kHz \*  
Input Connector: CONSOLE INPUT (Pad: ON, Input gain: +4 dBu, 20 Hz to 20 kHz)

## **TOTAL HARMONIC DISTORTION + NOISE**

CONSOLE OUTPUT jacks (1 to 8)

0.05 % (typ., +4 dBu) \* Sample Rate: 48.0 kHz or 44.1 kHz \* Input Connector:  
CONSOLE INPUT (Pad: ON, Input gain: +4 dBu, 20 Hz to 20 kHz)

PHONES jack

0.05 % (typ., 40 ohms load, 130 mW) \* Sample Rate: 48.0 kHz or 44.1 kHz \*  
Input Connector: CONSOLE INPUT (Pad: ON, Input gain: +4 dBu, 20 Hz to 20 kHz)

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**DYNAMIC RANGE**

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CONSOLE OUTPUT jacks (1 to 8)

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110 dB (typ.) \* Sample Rate: 48.0 kHz or 44.1 kHz \* Input Connector:  
CONSOLE INPUT (Pad: ON, Input gain: +4 dBu)

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**CROSS TALK@ 1 KHZ**

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CONSOLE INPUT jacks (1 to 8)

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-80dB (Pad: ON, Input gain: +10 dBu, typ.) \* Sample Rate: 48.0 kHz or 44.1  
kHz

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CONSOLE OUTPUT jacks (1 to 8)

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-100 dB (typ.) \* Sample Rate: 48.0 kHz or 44.1 kHz

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**NOMINAL INPUT LEVEL (VARIABLE)**

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CONSOLE INPUT jacks (1 to 8)

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-65 to -10 dBu (Pad: OFF) or -45 to +10 dBu (Pad: ON)

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STEREO IN jacks (L / R)

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-18 to 0 dBu

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TALKBACK MIC IN jack

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-50 to -10 dBu

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**PAD**

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Pad

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20 dB ON / OFF

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**INPUT IMPEDANCE**

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CONSOLE INPUT jacks (1 to 8)

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14 k ohms

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STEREO IN jacks (L / R)

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10 k ohms

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TALKBACK MIC IN jack

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41 K ohms

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**NON CLIP MAXIMUM INPUT LEVEL**

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CONSOLE INPUT jacks (1 to 8)

+8 dBu (Pad: OFF) or +28 dBu (Pad: ON)

STEREO IN jacks (L / R)

+18 dBu

TALKBACK MIC IN jack

+8 dBu

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**NOMINAL OUTPUT LEVEL**

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CONSOLE OUTPUT jacks (1 to 8)

+4 dBu (Load impedance: 10 k ohms)

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**OUTPUT IMPEDANCE**

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CONSOLE OUTPUT jacks (1 to 8)

600 ohms

PHONES jack

100 ohms

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**RECOMMENDED LOAD IMPEDANCE**

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CONSOLE OUTPUT jacks (1 to 8)

10 k ohms or greater

PHONES jack

8 ohms or greater

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**NON CLIP MAXIMUM OUTPUT LEVEL**

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CONSOLE OUTPUT jacks (1 to 8)

+22 dBu (1 kHz, 10 k ohms load)

PHONES jack

150 mW + 150 mW (1 kHz, 40 ohms load)

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## **RESIDUAL NOISE LEVEL (IHF-A, TYP.)**

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-88 dBu (All faders: Min) -80 dBu (Main Fader: Unity, Channel faders: Unity only one CONSOLE IN channel, Preamp gain: Min) -61 dBu (Main Fader: Unity, Channel faders: Unity only one CONSOLE IN channel, Preamp gain: Max) -73 dBu (All faders: Unity, Preamp gain: Min, S-1608 + S-4000S-3208, Total 48CH) -41 dBu (All faders: Unity, Preamp gain: Max, S-1608 + S-4000S-3208, Total 48CH) \* Input 150 ohms terminate \* Output Connector: CONSOLE OUTPUT jacks (1 to 8) \* Sample Rate: 48.0 kHz or 44.1 kHz

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## **EQUIVALENT INPUT NOISE LEVEL (E.I.N.)**

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-126 dBu (Main Fader: Unity, Channel faders: Unity only one CONSOLE IN channel, Preamp gain: Max) \* Output Connector: CONSOLE OUTPUT jacks (1 to 8) \* Sample Rate: 48.0 kHz or 44.1 kHz

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## **NETWORK LATENCY**

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2.8 mS (typ.) \*1 \* Total System Latency of audio signal from S-1608 inputs to outputs via M-380's REAC ports (A or B). \* Sample Rate: 48.0 kHz

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## **CONNECTORS**

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CONSOLE INPUT jacks (1 to 8)

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XLR-3-31 type (balanced, phantom power)

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TALKBACK MIC IN jack

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XLR-3-31 type (balanced, phantom power)

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STEREO IN jacks (L / R)

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RCA phono type

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CONSOLE OUTPUT jacks (1 to 8)

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XLR-3-32 type (balanced)

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PHONES jack

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Stereo 1/4 inch phone type

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DIGITAL OUT jacks x 2

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Optical type, Coaxial type

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Optical type, Coaxial type

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RJ-45 EtherCon type

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RS-232C connector

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9-pin D-sub type

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MIDI connectors (OUT/THRU, IN)

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5-pin DIN type

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USB connectors

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USB Type A and Type B

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## **DISPLAY**

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800 x 480 dots Wide VGA backlit TFT full color screen

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## **POWER SUPPLY**

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AC 115 V, AC 117 V, AC 220 V, AC 230 V, AC 240 V (50/60 Hz)

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## **POWER CONSUMPTION**

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75 W

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## **ACCESSORIES**

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Power Cord

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## **SIZE AND WEIGHT**

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Width

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482 mm  
19 inches

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Depth

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231 mm  
9-1/8 inches

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Height

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551 mm  
21-11/16 inches

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Weight

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14.0 kg

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