

# Onyx Satellite Specifications

## Frequency Response

Mic Input to Line Output (Gain @ unity):

@48 kHz  
20 Hz to 20 kHz,  $\pm 1$  dB

@96 kHz  
20 Hz to 40 kHz,  $\pm 1$  dB

## Distortion (THD & IMD)

Mic Input to Line Output (@ +4 dBu output):

THD+N: < 0.02%, 20 Hz to 20 kHz BW,  
1 kHz input @ +4 dBu, preamp at unity gain

## Dynamic Range (A-weighted, typical)

103 dB (Mic In to Line Out)

## Noise

Signal-to-Noise (A-weighted, typical):

>103 dB (ref. +0 dBu, Mic In to Line Out, Gain @ unity)

Equivalent Input Noise (E.I.N.), 20 Hz to 20 kHz Bandwidth,  
150 $\Omega$  source impedance, typical:

-110 dBu @ +60 dB gain

## Common Mode Rejection Ratio (CMRR)

Mic In: >40 dB @ 1 kHz, Gain @ maximum, typical

## Crosstalk

Mic Input to Line Output:

< -80 dB @ 1 kHz, +10 dBu signal on adjacent input,  
150 $\Omega$  source impedance

## Input Gain Control Range

Mic In: 0 dB to +60 dB,  $\pm 1$  dB

Line In: -20 dB to +40 dB,  $\pm 1$  dB

## Phantom Power

+48 VDC ( $\pm 20\%$ )

## Rated Output

Line: +4 dBu nominal

Maximum Rated Output:

+18 dBu @ Balanced Line-Level Outputs

## Input Impedance

Mic Input: 2.4 k $\Omega$  balanced

Inst Input: 1 M $\Omega$

Line: 20 k $\Omega$  balanced, 10 k $\Omega$  unbalanced

## Output Impedance

Line: 100  $\Omega$  balanced

## Signal Level LEDs

-40 dB, -20 dB, -10 dB (normal operating level),  
OL = 0 dB FS

## Sample Frequency Selections

44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz

## Analog Input Connectors

Pod:

Two balanced XLR/TRS combination mic/line inputs

Base Station:

Two balanced XLR mic inputs

Four balanced 1/4" TRS line inputs

Two 1/4" TS high-impedance instrument inputs

## Analog Output Connectors

Pod:

Two balanced 1/4" TRS line-level outputs

Base Station:

Eight balanced 1/4" TRS line-level outputs

## Analog Insert Connectors

Base Station:

Two unbalanced 1/4" TRS line-level inputs/outputs

## Digital Input/Output Connectors

Pod:

One 6-pin FireWire input/output

Base Station:

One 6-pin FireWire input/output

## Power Requirements

Both units can be powered by the 6-pin FireWire connection or by the DC Power Supply included.

In the U.S.: 120 VAC/60 Hz In  
12V DC Out

Outside the U.S.: 100 VAC-240 VAC/50-60 Hz In  
12V DC Out

## Physical Dimensions and Weight

Pod

Height: 2.1 in/53 mm

Width: 8.0 in/203 mm

Depth: 4.1 in/104 mm (including front knobs and rear jacks)

Weight: 1.8 lb/0.8 kg

Base Station

Height: 4.4 in/112 mm (4.6 in/117 mm with feet)

Width: 10.8 in/274 mm

Depth: 7.1 in/180 mm

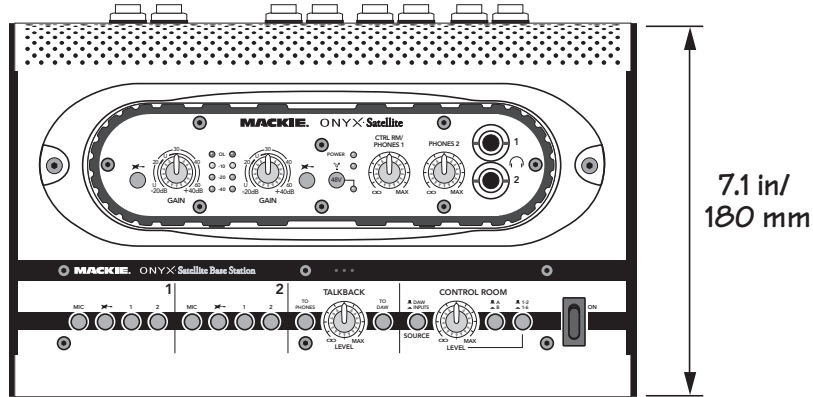
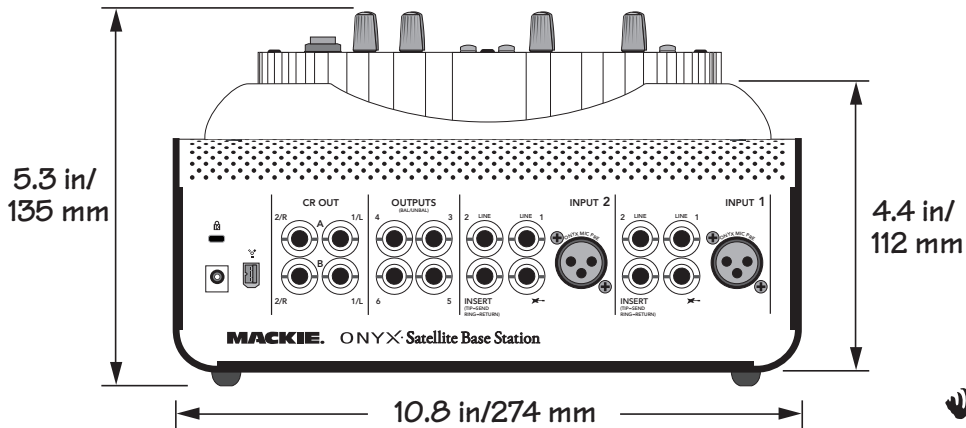
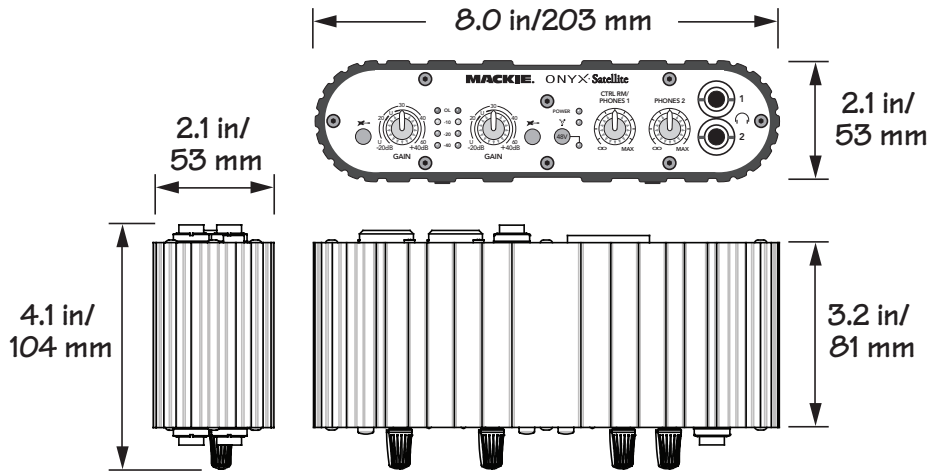
Weight: 6.1 lb/2.8 kg

LOUD Technologies Inc. is always striving to improve our products by incorporating new and improved materials, components, and manufacturing methods. Therefore, we reserve the right to change these specifications at any time without notice.

"Mackie.", "Onyx," and the "Running Man" are registered trademarks of LOUD Technologies Inc. All other brand names mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged.

©2006 LOUD Technologies Inc. All Rights Reserved.

# Onyx Satellite Dimensions



# Onyx Satellite Block Diagram

