

11 – Specifications

Specifications

Ratings

■ Sampling frequencies

44.1/48/88.2/96 kHz

■ Quantization bit depth

16-bit or 24-bit

Analog inputs

■ IN 1-8 mic inputs (balanced)

Connector: XLR-3-31 equivalent
(1: GND, 2: HOT, 3: COLD)
Input impedance: 2.4 k Ω
Nominal input level: –68 dBu (0.0003 Vrms)
(gain knob at maximum)
Nominal input level: –12 dBu (0.195 Vrms)
(gain knob at minimum)
Maximum input level: +8 dBu (1.947 Vrms)
Gain range: 56 dB

■ IN 9-10 instrument inputs (unbalanced)

(LINE/INST switch set to INST)
Connectors: 6.3mm (1/4") standard TS jacks
(Tip: HOT, Sleeve: GND)
Input impedance: 1 M Ω or more
Nominal input level: –57 dBV (0.0014 Vrms)
(gain knob at maximum)
Nominal input level: –12 dBV (0.251 Vrms)
(gain knob at minimum)
Maximum input level: +8 dBV (2.512 Vrms)
Gain range: 45 dB

■ IN 9-10 line inputs (balanced)

(LINE/INST switch set to LINE)
Connectors: 6.3mm (1/4") standard TRS jacks
(Tip: HOT, Ring: COLD, Sleeve: GND)
Input impedance: 10 k Ω
Nominal input level: –41 dBu (0.0069 Vrms)
(gain knob at maximum)
Nominal input level: +4 dBu (1.228 Vrms)
(gain knob at minimum)
Maximum input level: +24 dBu (12.282 Vrms)
Gain range: 45 dB

■ LINE IN 11-16 line inputs (unbalanced)

(LEVEL switch set to “–10dBV”)
Connectors: 6.3mm (1/4") standard TS jacks
(Tip: HOT, Sleeve: GND)
Input impedance: 10 k Ω
Nominal input level: –10 dBV (0.3162 Vrms)
Maximum input level: +10 dBV (3.162 Vrms)

■ LINE IN 11-16 line inputs (balanced)

(LEVEL switch set to “+4dBu”)
Connectors: 6.3mm (1/4") standard TRS jacks
(Tip: HOT, Ring: COLD, Sleeve: GND)
Input impedance: 10 k Ω
Nominal input level: +4 dBu (1.228 Vrms)
Maximum input level: +24 dBu (12.282 Vrms)

Analog outputs

■ LINE OUT 1-8 line outputs (balanced)

Connectors: 6.3mm (1/4") standard TRS jacks
(Tip: HOT, Ring: COLD, Sleeve: GND)
Output impedance: 100 Ω
Nominal output level: +4 dBu (1.228 Vrms)
Maximum output level: +24 dBu (12.277 Vrms)

■ PHONES output

Connector: 6.3mm (1/4") standard stereo jack
Maximum output: 70 mW + 70 mW
(THD+N 1% or less, into 32 Ω load)

■ Frequency response

■ Input → PHONES output

At 44.1 kHz and 48 kHz
20 Hz – 20 kHz: ± 1.0 dB (JEITA), supports Hi-Res
At 88.2kHz and 96kHz
20 Hz – 40 kHz: ± 2.0 dB (JEITA), supports Hi-Res

Control input/output ratings

■ MIDI IN connector

Connector: 5-pin DIN
Format: standard MIDI

■ MIDI OUT connector

Connector: 5-pin DIN
Format: standard MIDI

■ USB

Connector: 4-pin USB B-type
Transfer rate: USB 2.0 High Speed (480 Mbps)

Audio performance

- **Mic amp EIN (equivalent input noise)**
–125 dBu or more
- **Frequency response**
- **Input → LINE OUT (BALANCED)**
At 44.1 kHz and 48 kHz
20 Hz – 20 kHz: ±0.5 dB (JEITA)
At 88.2kHz and 96kHz
20 Hz – 40 kHz: ±0.5 dB (JEITA)
- **S/N ratio**
100 dB or higher
(LINE IN → LINE OUT, gain knob at minimum, JEITA)
- **Distortion**
0.006% or less
(Mic/LINE IN → LINE OUT, 1kHz sine wave, at nominal input level and maximum output level)
- **Crosstalk**
100 dB or higher
(Mic/LINE IN → LINE OUT, 1kHz)

Computer system requirements

Check the TEAC Global Site [for the latest information about supported operating systems.](#)

Windows

- **Supported operating systems**
Windows 8 (including 8.1) 32-bit
Windows 8 (including 8.1) 64-bit
Windows 7 32-bit SP1 or later
Windows 7 64-bit SP1 or later
- **Computer hardware requirements**
Windows computer with a USB 2.0 or USB 3.0 port
Computer
- **CPU/processor speed**
2 GHz or faster dual core processor (x86)
- **Memory**
2 GB or more
- **Display resolution**
At least 1280x800

CAUTION

Operation of this unit was confirmed using standard computers that meet the above requirements. This does not guarantee operation with all computers that meet the above requirements. Even computers that meet the same system requirements might have processing capabilities that differ according to their settings and other operating conditions

Mac OS X

- **Supported operating systems**
OS X Yosemite (10.10 or later)
OS X Mavericks (10.9.1 or later)
OS X Mountain Lion (10.8.4 or later)
- **Computer hardware requirements**
Apple Macintosh computer with a USB 2.0 or USB 3.0 port
- **CPU/processor speed**
2 GHz or faster dual core processor
- **Memory**
2 GB or more
- **Display resolution**
At least 1280x800

iOS devices

Apple devices running iOS 7 or later

Supported audio drivers

Windows: ASIO2.0, WDM, MIDI
Mac: Core Audio, Core MIDI

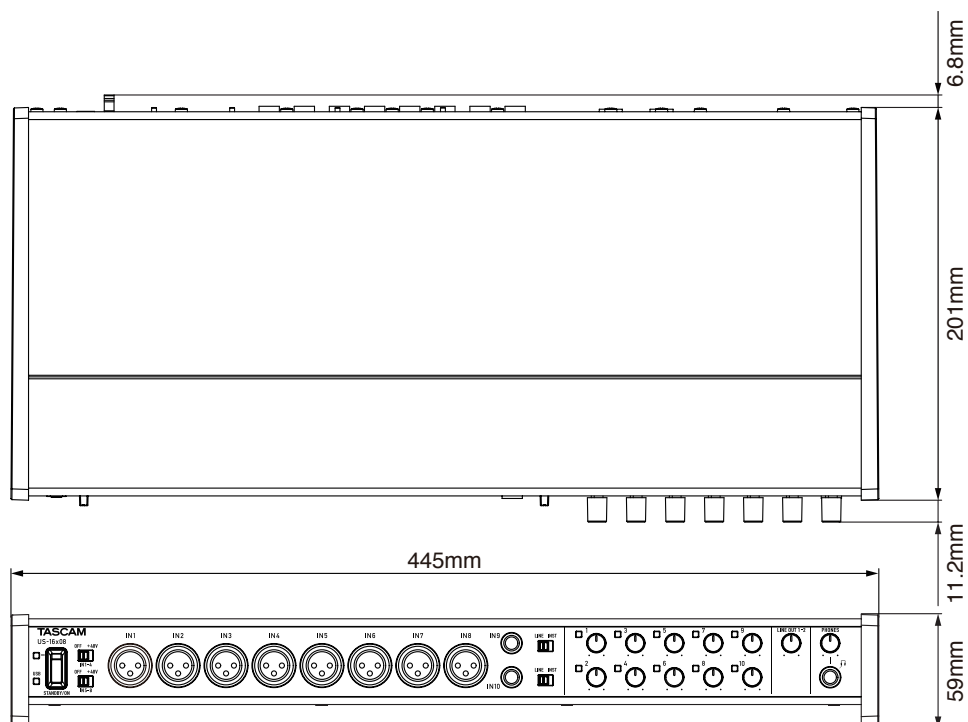
General

- **Power**
Specialized DC12V AC adapter (GPE248-120200-Z)
- **Power consumption**
12 W
- **Dimensions (W × H × D)**
Standard frame attached (state when shipped from factory)
445 × 59 × 219 mm
Rack mount adapters attached
482.6 × 44 × 218.4 mm
- **Weight**
2.8 kg
- **Operating temperature range**
5–35°C (32–104°F)

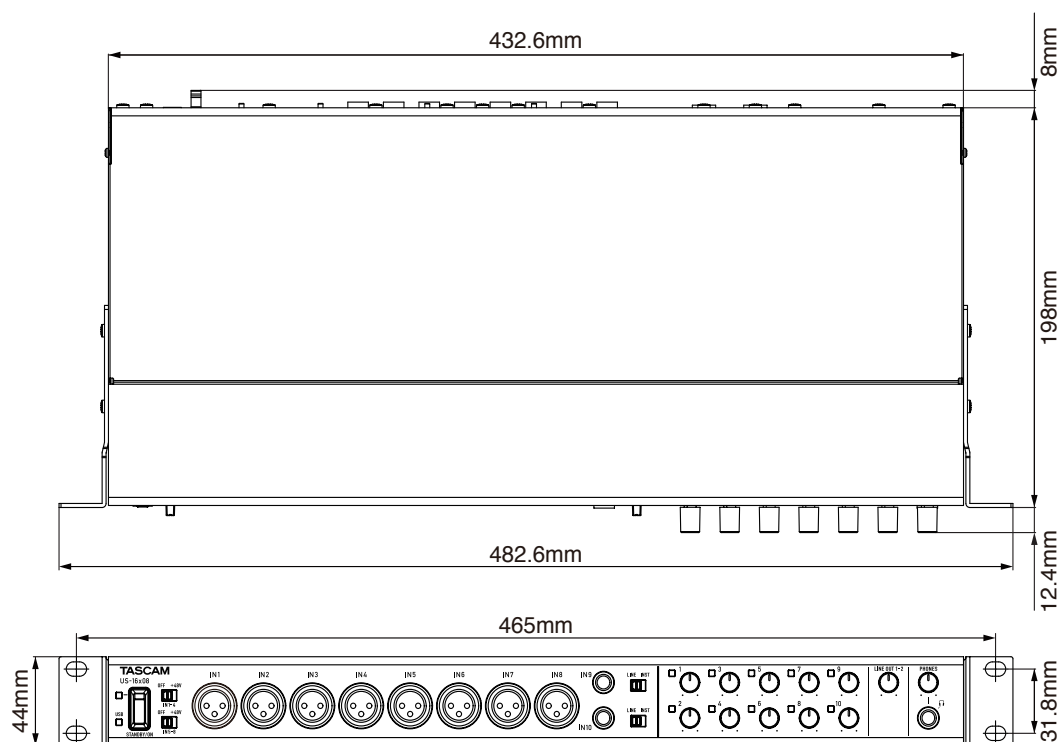
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Dimensional drawings

- Standard frame attached (state when shipped from factory)

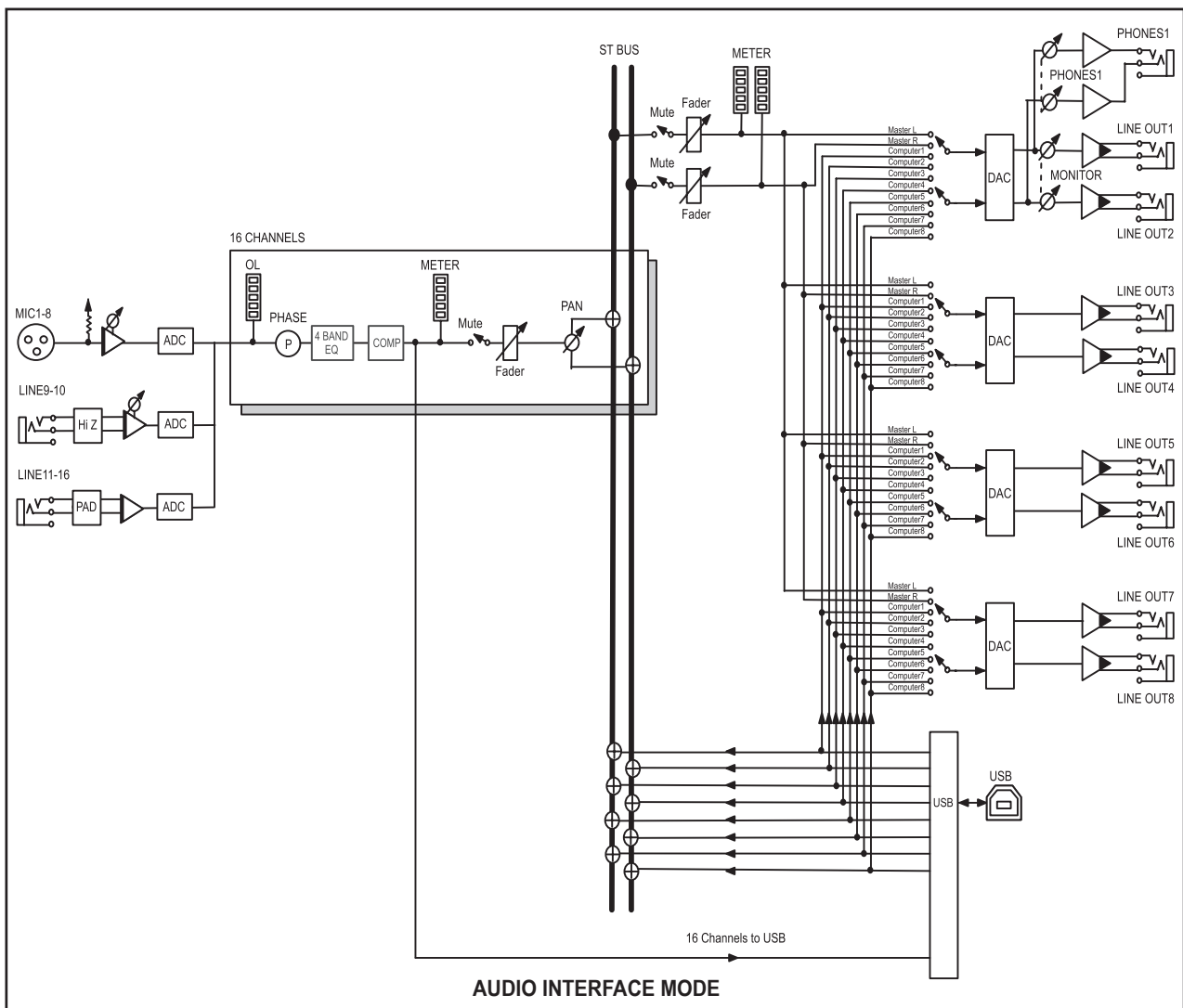
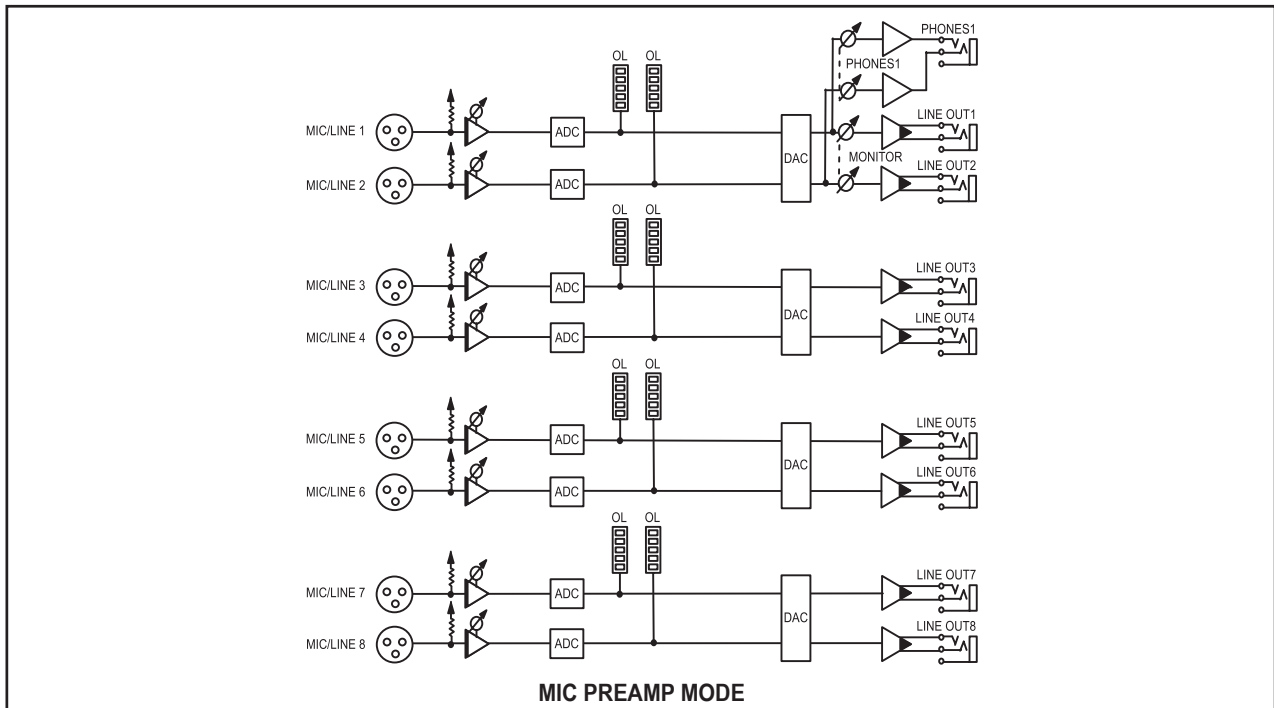


- Rack mount adapters attached



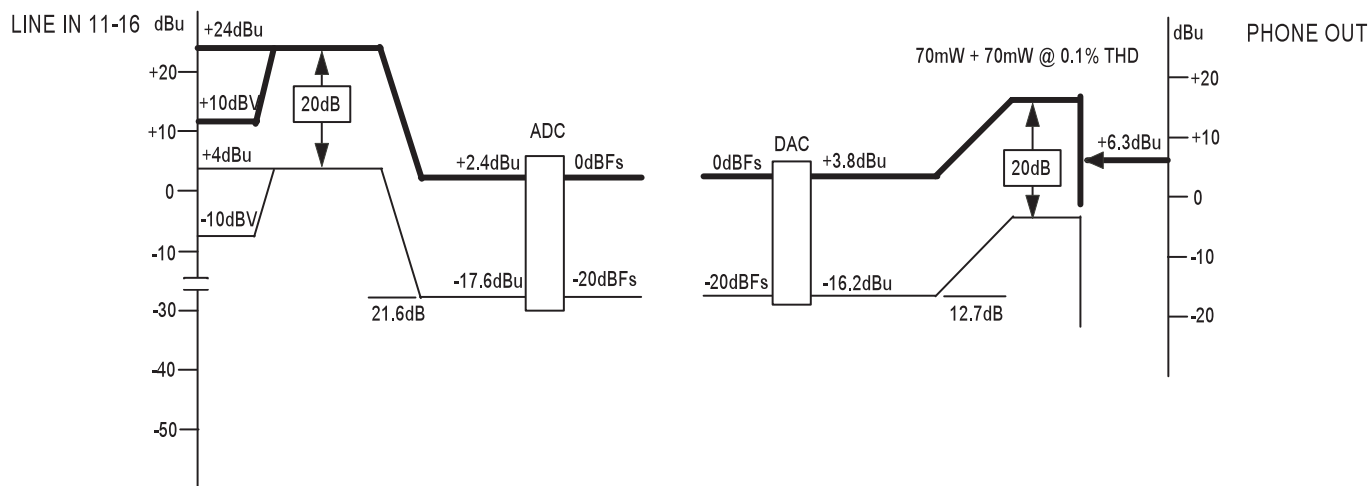
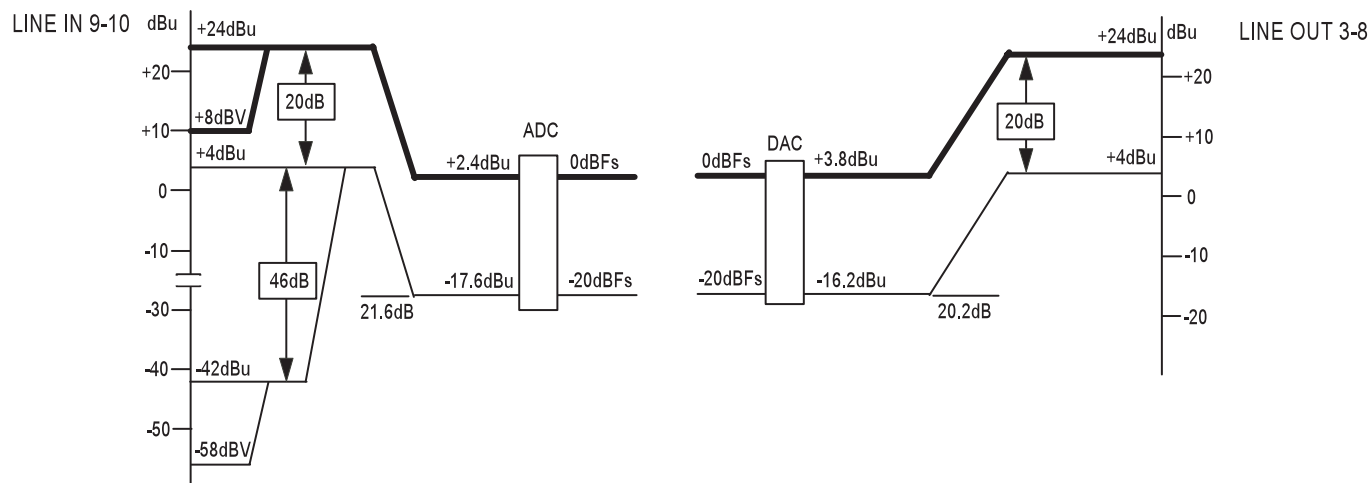
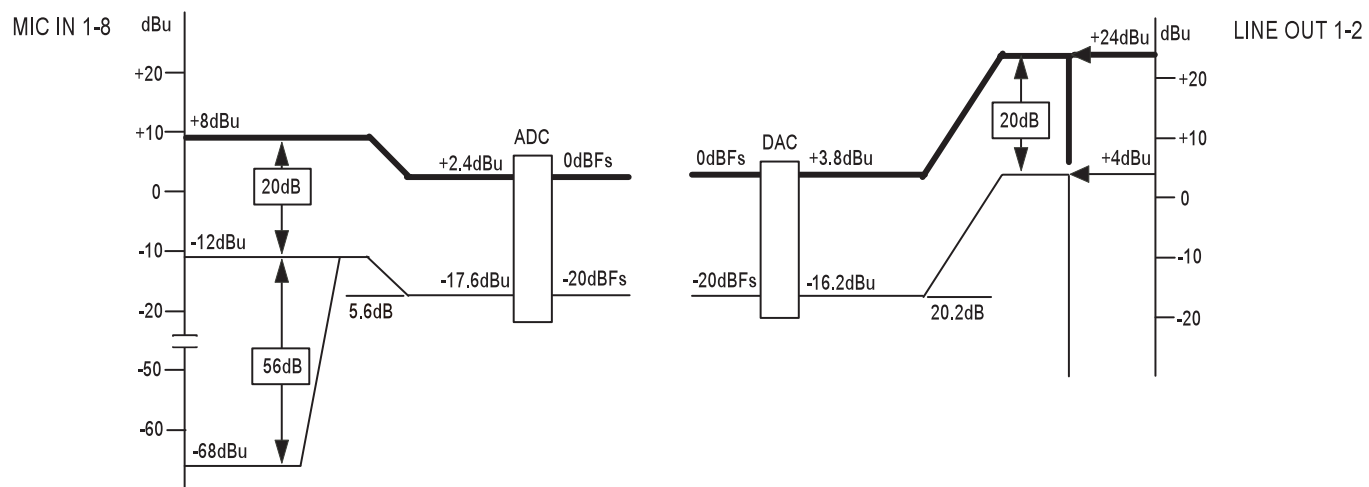
- Illustrations in this manual might differ in part from the actual product.
- The external appearance might be changed without notification to improve the product.

Block diagrams



11 – Specifications

Level diagrams



LEVEL DIAGRAM