

11 – Specifications

Ratings

■ Sampling frequencies

44.1, 48, 88.2, 96, 176.4, 192 kHz

■ Quantization bit depth

16/24-bit

Input/output ratings

Analog inputs

■ Mic inputs (balanced, IN1–IN8)

Connector: XLR-3-31 equivalent (1: GND, 2: HOT, 3: COLD)

Input impedance: 2.4 k Ω

Nominal input level (gain knob at MAX): –68 dBu (0.0003 Vrms)

Nominal input level (gain knob at MIN): –12 dBu (0.195 Vrms)

Maximum input level: +8 dBu (1.947 Vrms)

Gain range: 56 dB

■ Instrument inputs (unbalanced, IN1–IN2)

Connectors: 6.3mm (1/4") standard TS jacks (Tip: HOT, Sleeve: GND)

Input impedance: 1 M Ω or more

Nominal input level (gain knob at MAX): –68 dBV (0.0004 Vrms)

Nominal input level (gain knob at MIN): –12 dBV (0.251 Vrms)

Maximum input level: +8 dBV (2.512 Vrms)

Gain range: 56 dB

■ Line inputs (balanced, IN3–IN8)

Connectors: 6.3mm (1/4") standard TRS jacks (Tip: HOT, Ring: COLD, Sleeve: GND)

Input impedance: 10 k Ω

Nominal input level (gain knob at MAX): –52 dBu (0.0019 Vrms)

Nominal input level (gain knob at MIN): +4 dBu (1.228 Vrms)

Maximum input level: +24 dBu (12.282 Vrms)

Gain range: 56 dB

■ Line inputs (unbalanced, LINE IN 9–10)

When **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 inputs (balanced, LINE IN 9–10)

When **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 outputs (balanced, LINE OUT 1–10)

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)

■ Headphone outputs (PHONES 1/2)

Connectors: 6.3mm (1/4") standard stereo jacks

Maximum output: 70mW + 70mW (THD+N 0.1% or less, into 32 Ω load)

Frequency response (input → PHONES 1/2 output)

At 44.1 kHz and 48 kHz

20 Hz – 20 kHz: ± 1.0 dB (JEITA)

At 176.4 kHz and 192 kHz

20 Hz – 80 kHz: ± 5.0 dB (JEITA)

Digital audio input/output ratings

■ COAXIAL IN

Connectors: RCA pin jacks

Signal format: IEC60958-3 (S/PDIF)

Input impedance: 75 Ω

Input level: 0.5 Vp–p/75 Ω

■ COAXIAL OUT

Connectors: RCA pin jacks

Signal formats: IEC 60958-3 (S/PDIF)/IEC 60958-4 (AES/EBU)

- Changeable on the Settings Panel INTERFACE page

Output impedance: 75 Ω

Output level: 0.5 Vp–p/75 Ω

■ OPTICAL (S/MUX) IN/OUT

Connectors: OPTICAL (JEITA RC-5720C)

Signal format: Multi-channel optical (supports S/MUX when 88.2/96/176.4/192kHz)

Control input/output ratings

■ USB

Connector: USB 3.0 B type

Transfer rate: USB 3.0 Super Speed (5 Gbps)

■ MIDI IN connector

Connector: 5-pin DIN

Format: standard MIDI

■ MIDI OUT connector

Connector: 5-pin DIN

Format: standard MIDI

■ WORD IN connector

Connector: BNC

Input voltage: 2.0 Vp-p – 5.0 Vp-p

Input impedance: 75 Ω ±10%

Permitted frequency deviation during external synchronization: ±100 ppm

Terminal on/off switch

■ WORD OUT connector

Connector: BNC

Input voltage: 2.0 Vp-p (into 75 Ω)

Output impedance: 75 Ω ±10%

Sampling frequencies: 44.1, 48, 88.2, 96, 176.4 and 192 kHz
OUT/THRU switch

Audio performance

■ Mic amp EIN (equivalent input noise)

–125 dBu or lower

■ Frequency response

Input → LINE OUT (BALANCED)

At 44.1/48 kHz and 20 Hz – 20 kHz: ±0.5 dB (JEITA)

At 176.4/192 kHz and 20 Hz – 80 kHz: ±5 dB (JEITA)

■ S/N ratio

104 dB or higher (MIC/LINE IN → LINE OUT, gain knob at MIN, JEITA)

■ Distortion

0.005% or less (MIC/LINE IN → LINE OUT, 1kHz sine wave, at nominal input level and maximum output level)

■ Crosstalk

100 dB or more (MIC/LINE IN → LINE OUT, 1 kHz)

Computer system requirements

Check the TEAC Global Site www.teac.com for the latest information about supported operating systems.

Windows

■ Supported operating systems

Windows 10 32-bit

Windows 10 64-bit

Windows 8.1 32-bit

Windows 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 3.0 or USB 2.0 port

■ CPU/processor speed

2 GHz or faster dual core processor (x86)

■ Memory

2 GB or more

■ Display resolution

1280×800 or greater

CAUTION

- *The included USB cable (USB 2.0 or USB 3.0) and the USB specification that can be used depends on the computer and OS you are using.*

Supported operating systems	USB standard		USB cable connected
	USB 2.0	USB 3.0	
Windows 10 32-bit	✓	✓*	USB 3.0 cable*
Windows 10 64-bit	✓	✓*	
Windows 8.1 32-bit	✓	-	USB 2.0 cable
Windows 8.1 64-bit	✓	-	
Windows 7 32-bit SP1 or later	✓	-	USB 2.0 cable
Windows 7 64-bit SP1 or later	✓	-	

* Connect with the included USB 3.0 cable to use the USB 3.0 standard.

- *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*

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Mac OS X

■ Supported operating systems

OS X El Capitan (10.11.2 or later)
OS X Yosemite (10.10.1 or later)
OS X Mavericks (10.9.5)
OS X Mountain Lion (10.8.5)

■ Computer hardware requirements

Mac with a USB 3.0 or USB 2.0 port

■ CPU/processor speed

2 GHz or faster dual core processor

■ Memory

2 GB or more

■ Display resolution

1280×800 or greater

CAUTION

The included USB cable (USB 2.0 or USB 3.0) and the USB specification that can be used depends on the computer and OS you are using.

Supported operating systems	USB standard		USB cable connected
	USB 2.0	USB 3.0	
OS X El Capitan (10.11.2 or later)	✓	✓*	USB 3.0 cable* USB 2.0 cable
OS X Yosemite (10.10.1 or later)	✓	-	USB 2.0 cable
OS X Mavericks (10.9.5)	✓	-	USB 2.0 cable
OS X Mountain Lion (10.8.5)	✓	-	USB 2.0 cable

* Connect with the included USB 3.0 cable to use the USB 3.0 standard.

General

■ Power

DC12V AC adapter (GPE248-120200-Z)

■ Power consumption

20W

■ Dimensions

With standard frame attached

445 × 59 × 222 mm (W × H × D)

With rack mount adapters attached

482.6 × 44 × 222.4 mm (W × H × D)

■ Weight

2.7kg

■ Operating temperature range

5–35 °C (32–104 °F)

iOS devices

Device made by Apple Inc. running iOS 7 or later

Supported audio drivers

■ Windows

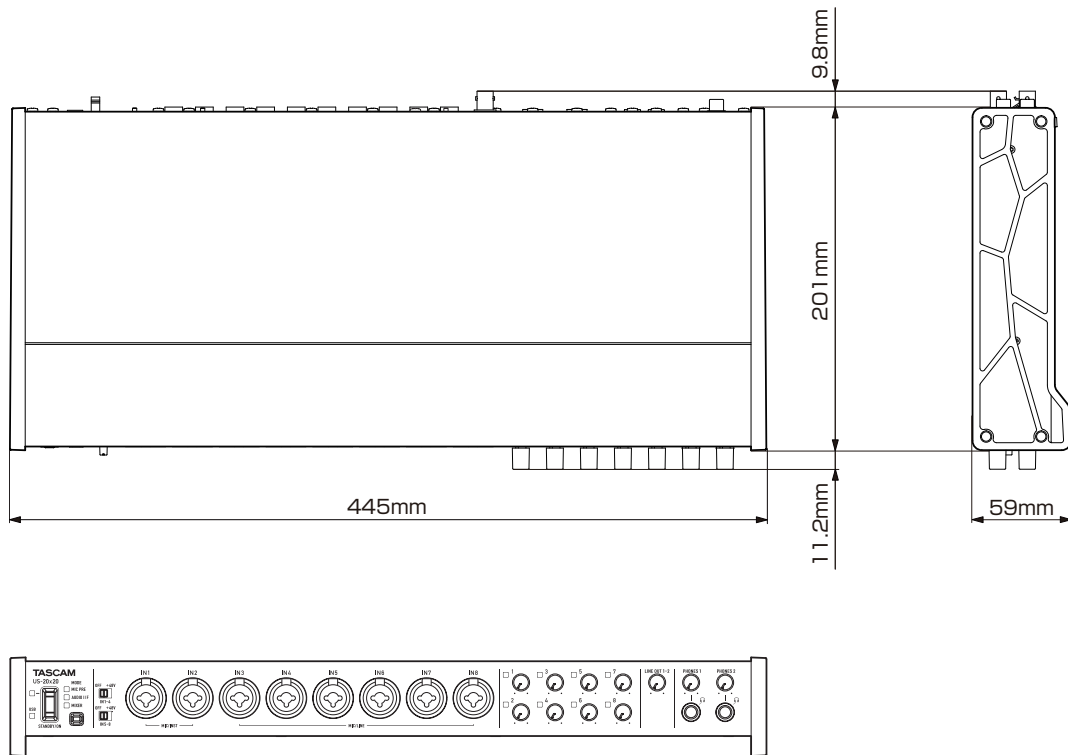
USB Audio Class 2.0, ASIO 2.0, WDM (MME), MIDI

■ Mac

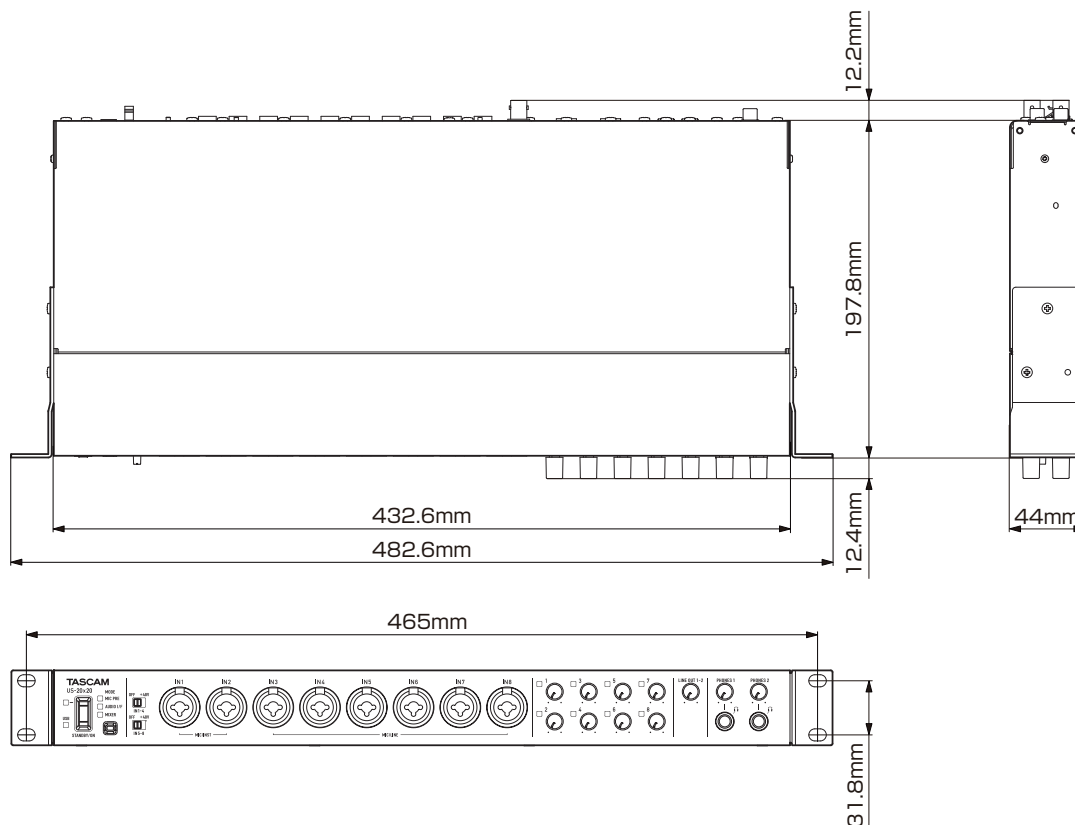
Core Audio, Core MIDI

Dimensional drawings

- With standard frame attached (as shipped from the factory)



- With rack mount adapters attached

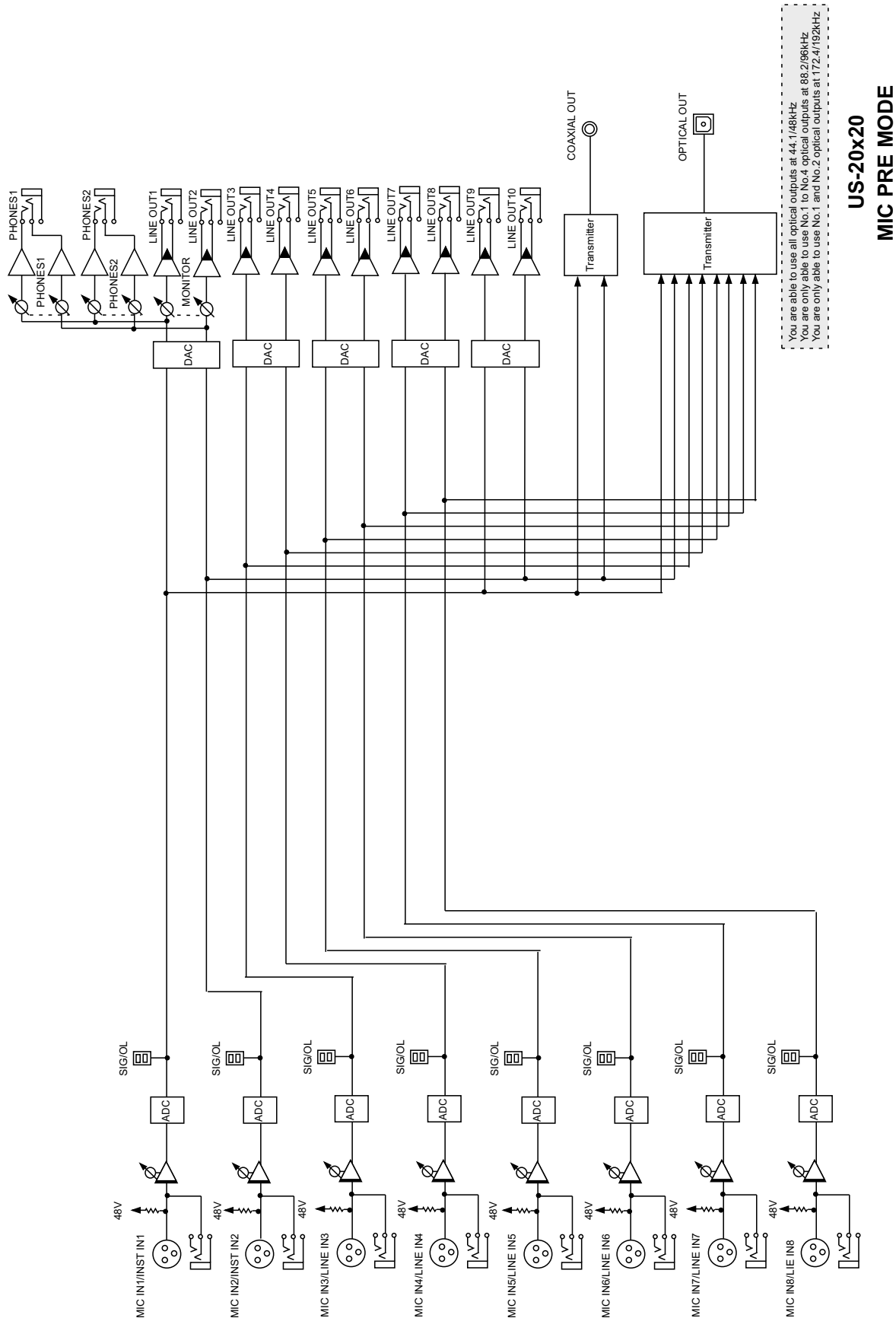


- Illustrations in this reference manual might differ in part from the actual product.
- The external appearance might be changed without notification to improve the product.

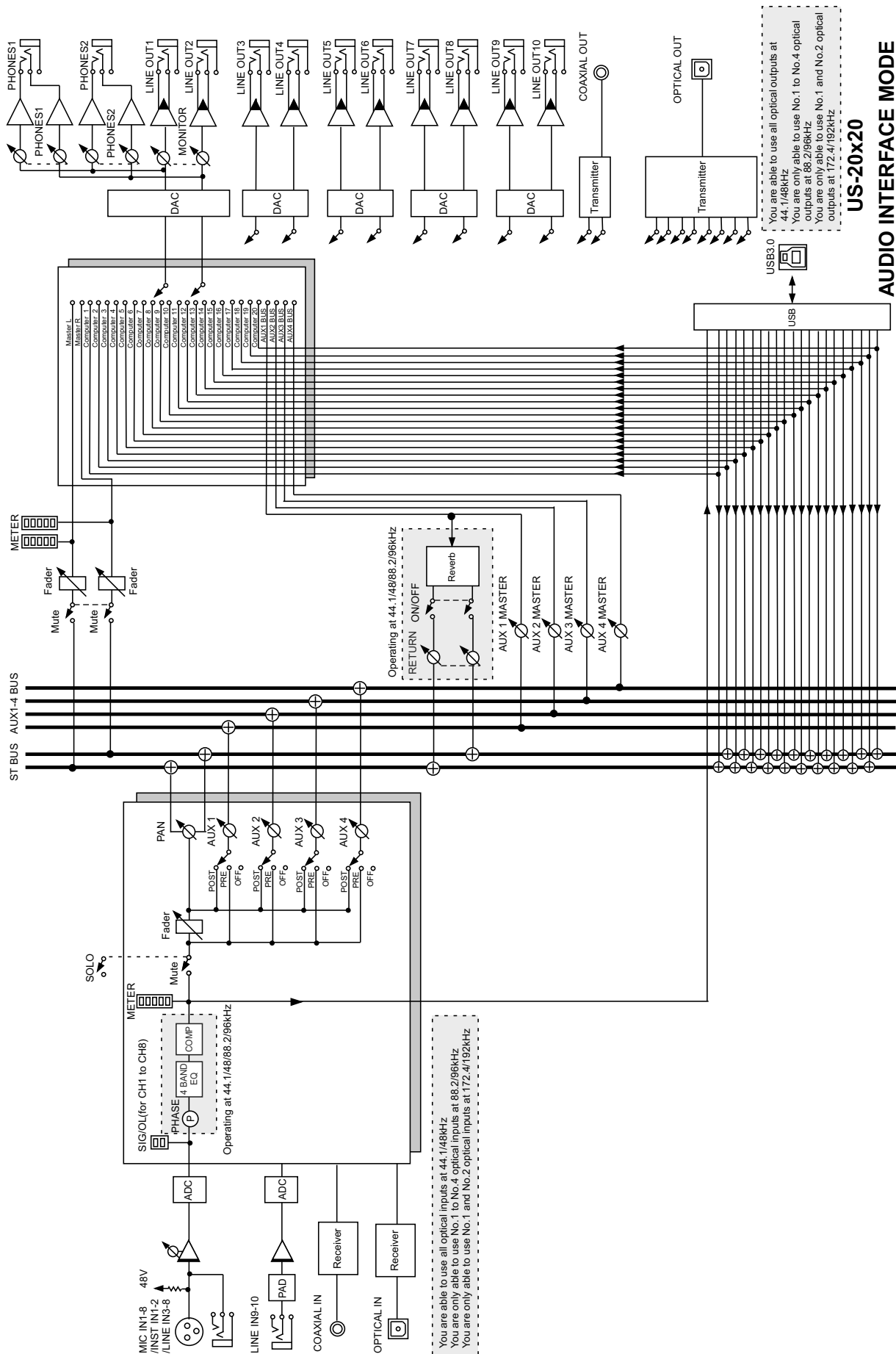
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Block diagrams

Mic preamp mode



Audio interface mode



Level diagrams

