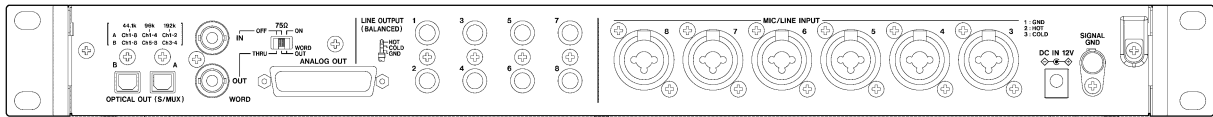
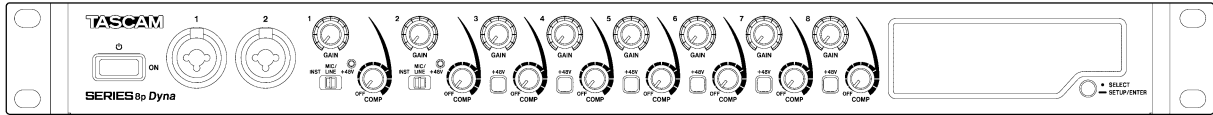


Product Spec Sheet
MICROPHONE PREAMP
SERIES 8p Dyna



■ **Specifications**

Ratings

- **Sampling frequencies**
 44.1, 48, 88.2, 96, 176.4, 192 kHz
- **Quantization bit depth**
 24-bit
- **Input channels**
 8 channels
- **Analog output channels**
 8 channels
- **OPTICAL OUT (S/MUX) output channels**
 8 channels S/MUX (44.1/48 kHz)
 A: Channels 1–8
 B: Channels 1–8
 8 channels S/MUX2 (88.2/96 kHz)
 A: Channels 1–4
 B: Channels 5–8
 4 channels S/MUX4 (176.4/192 kHz)
 A: Channels 1–2
 B: Channels 3–4

Analog audio input ratings

- **Mic inputs (balanced)**
 Front panel 1–2 input jacks
 (when the input switch is set to MIC/LINE)
 Rear panel MIC/LINE INPUT 3–8 jacks
 Connectors: XLR–3–31 equivalent (1: GND, 2: HOT, 3: COLD)
 Input impedance: 2.2 kΩ
 Rated input level: –58 dBu (0.001 Vrms, GAIN knob at maximum)
 –6 dBu (0.388 Vrms, GAIN knob at minimum)
 Maximum input level: +10 dBu (2.45 Vrms)
 Gain range: 52 dB

•Instrument inputs (unbalanced)

Front panel 1–2 input jacks

(when the input switch is set to INST)

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

Input impedance: 900 k Ω or higher

Rated input level: –58 dBV (0.0012 Vrms, GAIN knob at maximum)

–6 dBV (0.501 Vrms, GAIN knob at minimum)

Maximum input level: +10 dBV (3.162 Vrms)

Gain range: 52 dB

•Line inputs (balanced)

Front panel 1–2 input jacks

(when the input switch is set to MIC/LINE)

Rear panel MIC/LINE INPUT 3–8 jacks

Connectors: 6.3 mm (1/4") standard TRS jacks
(Tip: HOT, Ring: COLD, Sleeve: GND)Input impedance: 10 k Ω

Rated input level: –48 dBu (0.0003 Vrms, GAIN knob at maximum)

+4 dBu (1.228 Vrms, GAIN knob at minimum)

Maximum input level: +24 dBu (12.282 Vrms)

Gain range: 52 dB

•Compressor

3:1 ratio

30 dB threshold range

Analog outputs**•Analog output (balanced, ANALOG OUT)**

Connector: D-sub 25-pin

Locking screws: No. 4–40 UNC (inch type)

Nominal output level: +4 dBu (1.228 Vrms)

Maximum output level: +20 dBu (7.75 Vrms)

Output impedance: 200 Ω or lowerApplicable load impedance: 2 k Ω or higher**•Line outputs (balanced, LINE OUTPUT 1–8)**Connectors: 6.3 mm (1/4") standard TRS jacks
(Tip: HOT, Ring: COLD, Sleeve: GND)Output impedance: 200 Ω or lower

Nominal output level: +4 dBu (1.228 Vrms)

Maximum output level: +20 dBu (7.75 Vrms)

Digital audio output ratings**•OPTICAL OUT (S/MUX)**

Connectors: OPTICAL (JEITA RC-5720C)

Signal format: Multi-channel optical format

(supports S/MUX2 and S/MUX4 when 88.2, 96, 176.4 or 192 kHz)

Control input/output**•WORD IN connector**

Connector: BNC

Input voltage: 2.0 Vpp – 5.0 Vpp

Input impedance: 75 Ω \pm 10%

Permitted frequency deviation during external synchronization:

 \pm 100 ppm

Terminal on/off switch

•**WORD OUT connector**

Connector:	BNC
Output voltage:	2.0 V _{pp} (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)**

-127 dBu or lower

•**Analog input and output**

Frequency response

MIC/LINE → LINE OUT

20 Hz – 40 kHz: ±0.5 dB (JEITA), 40 kHz – 80 kHz: ±5 dB (JEITA)

S/N ratio

116 dB (MIC/LINE/INST to LINE OUT, GAIN knob at minimum, JEITA)

Distortion

0.0007% (MIC/LINE to LINE OUT, 1 kHz sine wave, maximum input level, GAIN knob at minimum)

0.0009% (INST to LINE OUT, 1 kHz sine wave, maximum input level, GAIN knob at minimum)

Crosstalk

119 dB (MIC to LINE OUT, 1 kHz sine wave, GAIN knob at minimum)

•**Analog input to digital output (S/MUX)**

Frequency response

MIC/LINE (analog) to digital output (S/MUX)

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

At 88.2/96 kHz and 20 Hz – 40 kHz: ±0.5 dB (JEITA)

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

S/N ratio

113 dB (44.1/48 kHz)

113 dB (88.2/96 kHz)

111 dB (176.4/192 kHz)

(MIC/LINE/INST to digital output (S/MUX), GAIN knob at minimum, JEITA)

Distortion

0.001%

(MIC/LINE/INST to digital output (S/MUX), 1 kHz sine wave, maximum input level, GAIN knob at minimum)

Crosstalk

114 dB (MIC (analog) to digital output (S/MUX), 1 kHz sine wave, GAIN knob at minimum)

General

•**Power**

DC 12 V AC adapter (PS-P1230)

•**Power consumption**

16 W

•**Dimensions**

482 × 44.8 × 228.8 mm (W x H x D, including protrusions)

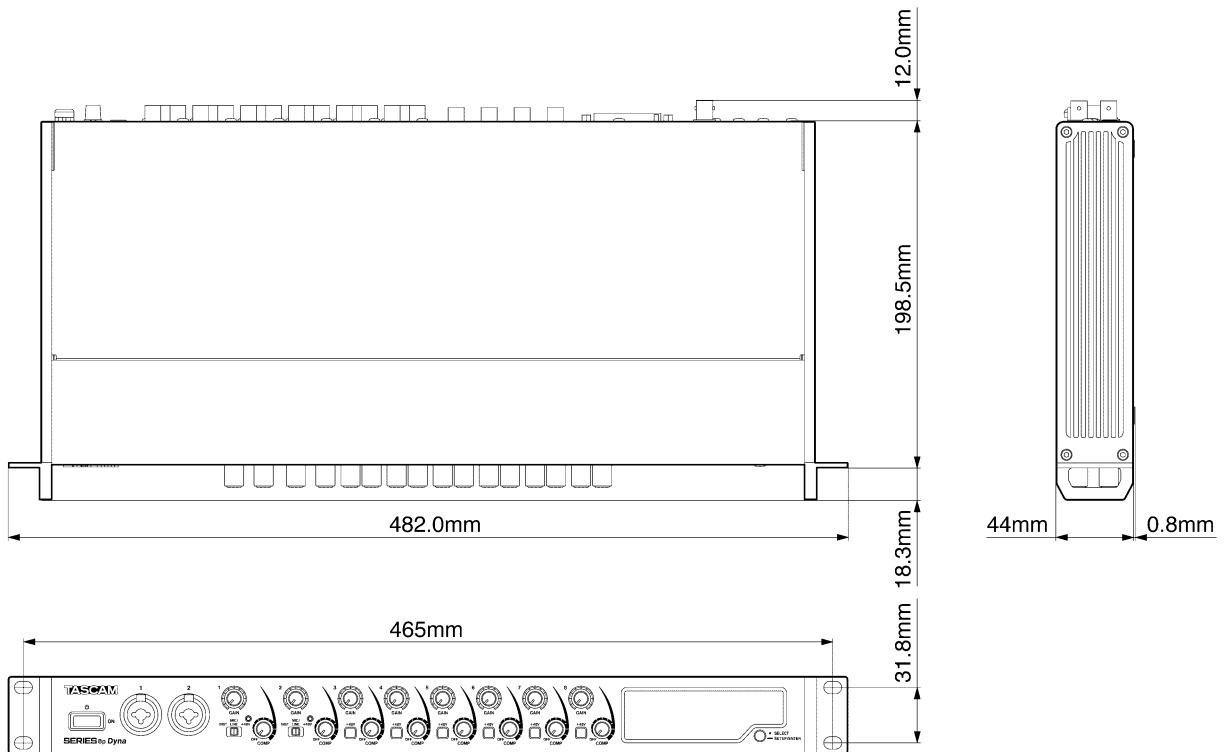
•**Weight**

2.6 kg

•**Operating temperature range**

0 – 40 °C (32 – 104 °F)

■ Dimensional drawings



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