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
  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 kΩ 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 kΩ
  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 lower
  Applicable load impedance: 2 kΩ 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 ± 10%
  Permitted frequency deviation during external synchronization:
                  ±100 ppm
Terminal on/off switch

**WORD OUT connector**

- **Connector:** BNC
- **Output voltage:** 2.0 Vpp (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)