

# Yamaha PX3 Specifications

- **Output Power:** *1kHz non-clip, 20ms burst, both channels driven*
  - **8 Ohms:** 300W x 2
  - **4 Ohms:** 500W x 2
  - **2 Ohms:** 300W x 2
  - **8 Ohms - Power Boost Mode:** 600W x 1
  - **4 Ohms - Power Boost Mode:** 1000W x 1
- **Sampling Frequency Rate:** 48kHz
- **A/D D/A Converters:** 24-bit linear, 128 times over sampling
- **Total Harmonic Distortion:**
  - **1kHz, 10W:** 0.1-percent
  - **1kHz, Half Power:** 0.3-percent
- **Frequency Response:** 20Hz - 20kHz (+/-1.0dB, 1W, 8 Ohms)
- **S/N Ratio:** 100dB (A-weighted, 8 Ohms, Gain set to +14dBu)
- **Crosstalk:** <-60dB (half power, 8 Ohms, 1kHz, Vol. max. input, 150 Ohm shunt)
- **Voltage Gain/Sensitivity:** *8 Ohm, Volume max.*
  - **Gain Setting - 32dB:** 32.0dB/+4.1dBu
  - **Gain Setting - 26dB:** 26.0dB/+10.1dBu
  - **Gain Setting - +4dBu:** 32.1dB/+4dBu
  - **Gain Setting - +14dBu:** 22.1dB/+14dBu
- **Voltage Gain/Sensitivity:** *8 Ohm, Volume max., Power Boost mode*
  - **Gain Setting - 32dB:** 35.0dB/+4.1dBu
  - **Gain Setting - 26dB:** 29.0dB/+10.1dBu
  - **Gain Setting - +4dBu:** 35.1dB/+4dBu
  - **Gain Setting - +14dBu:** 25.1dB/+14dBu
- **Maximum Input Voltage:** +24dBu
- **Input Impedance:**
  - **Balanced:** 20 k Ohms
  - **Unbalanced:** 10 k Ohms
- **I/O Connectors:**
  - **Speaker Output Ports:** Neutrik SpeakON NL4 x 2, Binding Post x 2 pairs, 1/4" TS Jack x 2
  - **Line Input:** XLR-3-31 x 2, 1/4" TRS Jack x 2
  - **Others:** USB 2.0 Standard-A Connector (Female) (for Save/Load, Speaker Preset update, Firmware update with USB memory), AC Inlet x 1 (with AC cord clamp)
- **Indicators:** POWER x 1 (Green), ALERT x 1 (Red), USB x 1 (Green), PROTECT x 2 (Red), CLIP/LIMIT x 2 (Red), SIGNAL x 2 (Green) (Auto LED OFF feature)
- **Processors:**
  - Input Summing
  - D-CONTOUR (FOH, MAIN, MONITOR, OFF)
  - Delay (0 - 74ms)
  - HPF/LPF (cutoff frequency 20Hz - 20kHz with polarity control)
  - Speaker Processor (6-band PEQ + limiter + delay)
- **Latency:** 1.5ms (analog input to speakers)
- **Presets:** 8 x user amplifier presets (factory speaker presets for Yamaha passive speakers)
- **Protection:**
  - **Load Protection:**
    - **Power Switch ON/OFF:** Output Mute
    - **Output Voltage Protection:** Over Voltage Limiter, user-configurable by wattage and speaker preset
    - **DC-Fault:** Power Supply Shutdown (NOT restored automatically)
  - **Amplifier Protection:**

- **Thermal:** Output Limiter (restored automatically), Output Mute (restored automatically)
  - **Over Current:** Output Mute (restored automatically)
  - **Over Voltage:** Output Limiter (restored automatically)
  - **Integrated Power Limit:** Output Limiter (restored automatically)
- **Power Supply Protection:**
  - **Thermal:** Output Limiter (restored automatically), Power Supply Shutdown
  - **Over Voltage:** Power Supply Shutdown
  - **Over Current:** Power Supply Shutdown
- **Amplifier Class:** Class-D, balanced output circuit (BTL)
- **Cooling:** 16-step variable speed fan x 2, front to rear airflow
- **Power Requirements:** 220V-240V, 50/60Hz
- **Power Consumption:**
  - **1/8 Max. Power, 4 Ohms:** 160W (pink noise at all channels)
  - **Idling, 4 Ohms:** 55W
- **Dimensions:** 480mm x 88mm x 388mm / 18-7/8" x 3-7/16" (2U) x 15-2/8" (W x H x D)
- **Weight:** 6.9kg / 15.21lbs