

PORTABLE

Crown Portable PA Product Line



XTi 2 Series

PA



XLS DriveCore™ Series

PORTABLE_{PA}

XTi 2 Series: **World Class**
XTi 1002, XTi 2002, XTi 4002, XTi 6002



WORLD CLASS

► FEATURES

- Complete system processing solution including XOVER, EQ, Delay, & Limiting
- **NEW** Peakx Plus™ Limiters provide the ultimate in performance and protection
- **NEW** Advanced Monitoring provides visibility of AC Line Voltage and Power Supply Temperature
- USB network for real-time monitoring and control

Model	POWER OUTPUT				
	2-ohm Dual (per channel)	4-ohm Dual (per channel)	8-ohm Dual (per channel)	4-ohm Bridge	8-ohm Bridge
XTi 1002	700W*	500W	275W	1,400W*	1,000W
XTi 2002	1,000W*	800W	475W	2,000W*	1,600W
XTi 4002	1,600W*	1,200W	650W	3,200W*	2,400W
XTi 6002	3,000W*	2,100W	1,200W	6,000W*	4,200W

1 kHz power with 0.5% THD. * With 1% THD.

► SPECIFICATIONS

Performance

Frequency Response:
(at 1 watt, 20 Hz to 20 kHz): +0 dB, -1 dB

Signal-to-Noise Ratio (below rated 1kHz power at 8 ohms):
XTi 1002/2002/4002: 100 dB (A weighted),
XTi 6002: 103 dB (A weighted)

Total Harmonic Distortion (THD): < 0.5%

Damping Factor 20 Hz to 1 kHz: > 500

Crosstalk (below rated power):
20 Hz - 1 kHz: > 70 dB

Input Impedance (nominal):
20k ohms balanced, 10k ohms unbalanced

Maximum Input Signal: +22 dBu typical

AC Line Voltage and Frequency Configurations:

100 VAC, 120 VAC, 220-240 VAC 50/60 Hz

AC Line Current (120 VAC amplifier playing 1/8 power pink noise into 4 ohms per ch):

XTi 1002: 6.8A; no more than 38W at idle,
XTi 2002: 8.3A; no more than 38W at idle,
XTi 4002: 10.5A; no more than 38W at idle,
XTi 6002: 15.3A; no more than 180W at idle

Operating Temperature:
0°C to 40°C at 95% relative humidity
(non-condensing)

Indicators

Signal Indicator: Green LED, one per channel, illuminates when a very low-level signal is present at input (may be used for troubleshooting cable runs).

-10 Indicator: Green LED flashes when output signal exceeds -10 dB below clip.

-20 Indicator: Green LED flashes when output signal level exceeds -20 dB below clip.

Ready Indicator: Green LED, one per channel, illuminates when the amplifier is ready to produce audio.

Clip Indicator: Red LED, one per channel, turns on at the threshold of audible distortion.

Temp Indicator: Red LED, one per channel, illuminates under excessive temperature conditions.

Power Indicator: Blue LED illuminates when the amplifier has been turned on and has power.

Controls

Level: Two front-panel rotary level controls, one for each channel.

Power Switch: On/Off switch applies AC power to the amplifier.

Sel/Prev/Next Buttons: Three buttons near the LCD screen that are used to access menu items and front panel lockout.

LCD Screen: Backlit liquid crystal display that shows preset and processing status.

Integrated Processing

Input EQ: 6 parametric filters per channel with adjustable Q, ±15 dB boost/cut. Also adjustable high and low shelving filters. This 8-filter EQ section can be bypassed.

Crossover Filters: Highpass and Lowpass per channel. Butterworth 6/12/18/24 dB per octave. Linkwitz-Riley 24/48 dB per Octave. Also includes ±15 dB bandpass gain and polarity control.

Output EQ: 8 parametric filters per channel with adjustable Q, ±15 dB boost/cut. This 8-filter EQ section can be bypassed.

Delay: For signal alignment of driver; 50 ms of total delay.

SubHarmonic Synth: Takes the low-frequency content of the input signal and “synthesizes” a new signal that is the same as the input signal but one octave lower. The new synthesized signal is then mixed with the original signal to create the effect. New users now have control over frequency, gain, and filter type.

Peakx Plus™ Limiter: User defeatable limiter that allows users to control Threshold, Attack, and Release times.

Presets: 50 total presets; 49 of which are user-definable.

Input/Output Connectors

Input Connectors: XLR, one per channel

Link/Out Connector: Loop-thru signal from input connector for linking another amplifier, one per channel.

Output Connectors: Two Neutrik® Speakon® NL4MP output connectors. Channel-1 Speakon® is wired with Ch. 1 and Ch. 2 outputs for use with optional single 4-conductor cable. Two binding post outputs (in parallel with Speakon® connectors).

HiQnet™ USB Connector: Type B, connects to HiQnet™ network.

Construction

Chassis: Steel

Front Panel: Cast aluminum

Cooling: Proportional speed fan with front-to-rear airflow.

Dimensions:

XTi 1002/2002/4002: 19" (W) x 3.5" (H) x 12.25" (D)
XTi 6002: 19" (W) x 3.5" (H) x 16.2" (D)

Net Weight:

XTi 1002/2002/4002: 18.5 lbs (8.4kg)
XTi 6002: 24.0 lbs (10.9kg)

Shipping Weight:

XTi 1002/2002/4002: 21.5 lbs (9.8kg)
XTi 6002: 30.0 lbs (13.6kg)

Regulatory Certifications



Other Applications
Installed, Cinema, Touring

The XTi Series of Crown® amplifiers are professional tools designed and built for portable PA applications. The series includes four models which are similar except for output power: XTi 1002, 2002, 4002 and 6002. All are rugged and lightweight, and offer unmatched value in their class. XTi-Series amplifiers feature an LCD screen with speaker presets for crossover frequencies, EQ, limiting, delay, and a subharmonic synthesizer. Other features include a switch-mode universal power supply, useful function indicators, proportional-speed fan-assisted cooling, XLR inputs, Speakon® and binding-post outputs, short-circuit protection and more.

2012

PORTABLE_{PA}

XLS DriveCore™ Series: **Performance and Flexibility**
XLS1000, XLS1500, XLS2000, XLS2500



INNOVATION

► FEATURES

- High Performance, Lightweight Class-D amplifier – weighs less than 11 lbs
- Integrated PureBand™ Crossover system ensures seamless transitions from low to high frequency drivers
- Integrated Peak_x™ Limiters provide maximum output while protecting your speakers
- XLR, 1/4", RCA Inputs ensure compatibility with any source
- 1/4" Inputs can be used as loop-thrus to distribute signal to additional amplifiers

Models	POWER OUTPUT*				
	2-ohm Dual (per channel)	4-ohm Dual (per channel)	8-ohm Dual (per channel)	8-ohm Bridge	4-ohm Bridge
XLS1000	550W	350W	215W	700W	1,100W
XLS1500	775W	525W	300W	1,050W	1,550W
XLS2000	1,050W	650W	375W	1,300W	2,100W
XLS2500	1,200W	775W	440W	1,550W	2,400W

*Maximum average power in watts at 0.5% THD, 1 kHz.

► SPECIFICATIONS

Performance

Sensitivity (for full rated power at 4 ohms):
1.4 Vrms.

Frequency Response

(at 1 watt, 20 Hz to 20 kHz): +0 dB, –1 dB.

Signal-to-Noise Ratio

Rated as dBr to full rated 8 ohms power
output (A-weighted):

XLS1000: > 97 dB.

XLS1500, XLS2000, XLS2500: > 103 dB.

Total Harmonic Distortion (THD): < 0.5%.

Intermodulation Distortion (IMD):

(60 Hz and 7 kHz at 4:1) from full rated
output to –30 dB: < 0.3%.

Damping Factor (8 ohm) 10 Hz to 400 Hz:

> 600.

Crosstalk

 (below rated 8 ohm power):

at 1 kHz: > 85 dB.

at 20 kHz: > 60 dB.

Input Impedance

 (nominal):

20 kilohms balanced, 10 kilohms unbalanced.

Load Impedance:

 2 to 8 ohms per channel in

Stereo, 4 to 8 ohms in Bridge Mono.

AC Line Voltage and Frequency

Configurations Available (±10%): 120 VAC
60 Hz, 100 VAC 50/60 Hz, 220 and 240 VAC
50 Hz.

Controls

Level: Two front-panel rotary level controls,
one for each channel.

LCD Screen: Back-lit LCD allows for
crossover configuration, amp mode
configuration and clip compressor
configuration.

Menu/Prev/Select: Three buttons located
near the LCD screen that are used to
configure and access the integrated
processing.

Power: Front-panel switch; on when in the IN
position. Blue LED will illuminate when on.

Circuit Breaker: Back-panel breaker provides
overload protection.

PureBand™ Crossover System

Crossover Filter:

Linkwitz-Riley 24dB per octave.

Crossover Mode:

Crossover (CH1=LPF, CH2=HPF),
Low Pass (both channels LPF),
High Pass (both channels HPF),
Bridge (LPF or HPF).

Peak_x™ Limiters: Channel independent clip
limiter designed to provide maximum output
while protecting your loudspeakers.

Indicators

Signal Presence Indicators: Two green LEDs,
one for each channel, illuminate when the
channel's input signal exceeds –40 dBu.

–10 Indicator: Green LED flashes when
output signal exceeds –10 dB below clip.

–20 Indicator: Green LED flashes when
output signal level exceeds –20 dB below clip.

Clip Indicators: Two red LEDs, one for each
channel, illuminate when the channel's output
is being overdriven.

Thermal Indicator: Two red LEDs, one
for each channel, illuminate when thermal
compression begins.

Input/Output

Input Connectors: XLR (one per channel),
1/4 inch (one per channel), and RCA (one per
channel). The 1/4 inch inputs can be used
as loop-thrus to distribute signal to multiple
amplifiers.

Output Connectors: Two 4-Pole Speakon®
Output Connectors accept 2-pole or 4-pole
Speakon® connectors. The top Speakon
connector is wired for both channels so it can
be used for bridge-mono wiring or for stereo
wiring of two speakers to a single Speakon
connector.

One pair of back-panel binding posts per
channel; accepts banana plugs or bare wire.
(European models do not accept banana plugs.)

Protection

XLS Series amplifiers provide extensive
protection and diagnostic capabilities,
including output current limiting, DC
protection, circuit breaker, and thermal
protection.

Construction

Ventilation: Flow-through ventilation from
front to back.

Cooling: Internal heat sinks with forced-air
cooling for rapid, uniform heat dissipation.

Air Volume Requirements

(per minute per unit): 80.15 ft³ (2.27 m³).

Dimensions:EIA Standard 19-inch (48.3-cm)
rack mount width (EIA RS-310-B), 3.5-inch
(8.9-cm) height.

XLS1000/1500: 8.10-inch (20.6-cm) depth.

XLS2000/2500: 10.35-inch (26.3-cm) depth.

Weight

Net Weight:

XLS1000: 8.6 lb (3.9 kg)

XLS1500: 8.6 lb (3.9 kg)

XLS2000: 10.75 lb (4.9 kg)

XLS2500: 10.75 lb (4.9 kg)

Shipping Weight:

XLS1000: 13.6 lb (6.2 kg)

XLS1500: 13.6 lb (6.2 kg)

XLS2000: 15.75 lb (7.1 kg)

XLS2500: 15.75 lb (7.1 kg)

Regulatory Certifications



Other Applications
Installed, Cinema

Take command of center stage with Crown's new XLS amplifiers. The high-performance class-D amplifier combined with its integrated PureBand™ Crossover System deliver unmatched performance and sound; while its multiple inputs let you plug in anything you want. Peak_x™ Limiters effortlessly protect your speaker investment, and at 11 pounds moving from show to show is nearly effortless. Powerful, flexible, portable, and reliable – RUN THE SHOW with a power amplifier designed to play hard all night long.

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