



Turtle Beach™

# MULTISOUND Pinnacle™ Pro Series

**Audiophile-quality sound for multimedia, MIDI and audio productions**

**T**urtle Beach continues to bring you the ultimate in PC sound quality and performance with the MultiSound® Pinnacle™ Pro Series.

Unlike sound cards designed for computer games, the Pinnacle is engineered to provide absolutely the finest PC sound available. The exceptional clarity and dynamic range of its digital audio hardware and heart-pounding, life-like music from its professional MIDI synthesizer offer a sonic experience normally reserved for the finest home audio equipment.

For demanding audiophiles and musicians, the Pinnacle also includes a software suite for recording and editing digital audio and MIDI music, turning a PC into a feature-rich desktop audio production tool. Optional enhancements let you add features such as direct-to disk audio transfer and an additional MIDI synthesizer.

By combining the power of Windows® with a no-compromise approach to sound quality, the Pinnacle delivers the ultimate PC listening experience. Once you hear the difference, there's no going back.

From the leaders in award winning PC sound technology—Turtle Beach.

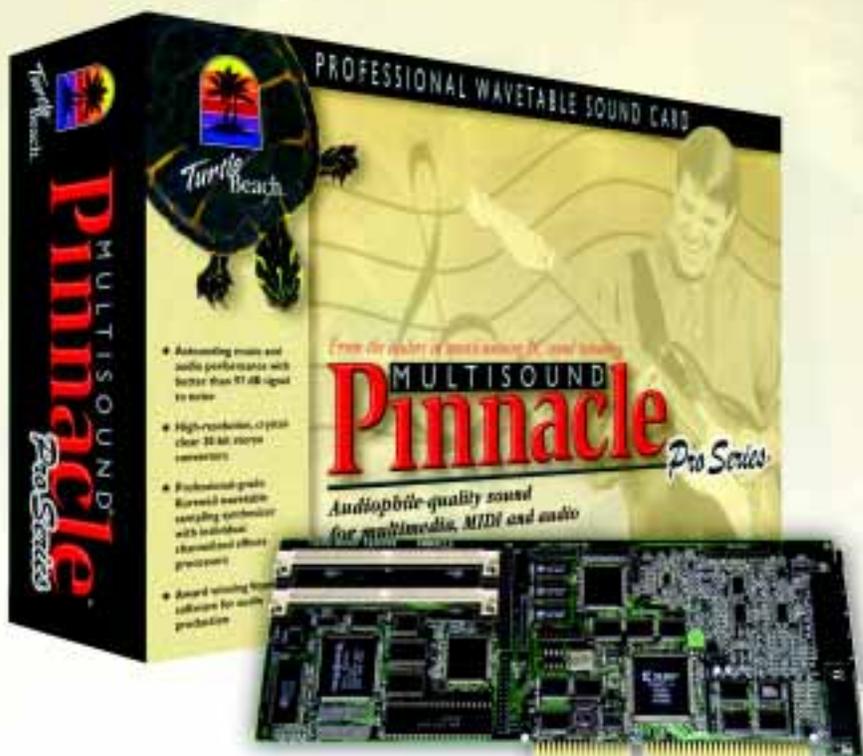
**Astounding music and audio performance, with better than 97 dB signal-to-noise ratio**

**High resolution, crystal-clear 20-bit stereo converters**

**Professional-grade Kurzweil® wavetable sampling synthesizer with channelized effects processor**

**4MB of Kurzweil® instrument samples**

**Supports 48 independent MIDI channels**



Includes award-winning Voyetra software for audio production

# MultiSound® Pinnacle™ Professional Wavetable Sound Card

## Voyetra® Software Suite



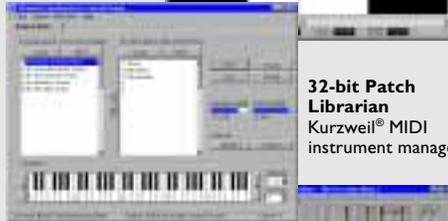
**Voyetra® Digital Orchestrator™ SE**  
MIDI and digital audio sequencer



**AudioStation® 2**  
CD, WAV, MIDI  
media controller



**AudioView™**  
digital audio  
editor



**32-bit Patch Librarian**  
Kurzweil® MIDI  
instrument manager



**Audio Mixer**  
record and play  
level controller

### Plus...

- Over 200 instrument patches with more than 25 MB of instrument samples
- Digital Audio (WAV) files
- MIDI music files
- Drivers for Windows® 3.1, 95 and NT 4.0

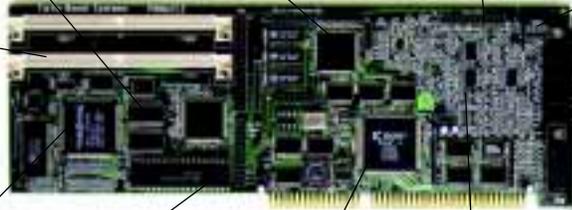
MIDI digital effects engine individually processes each of 16 MIDI channels to produce rich, ambient instrument sounds.

Exclusive Turtle Beach Hurricane™ Architecture DSP system provides super high speed digital audio transfer.

Add an optional 32-voice synthesizer module for a total of 64 voices of MIDI music power.

Stereo CD audio connectors let you play standard audio CDs using your PC's CD ROM drive.

Add up to 48 MB of optional RAM (using standard SIMM modules) to create and download your own custom instrument sounds from the PC hard drive.



Stereo Dynamic Mic Input with optional phantom power for condenser microphones

Stereo Line Input

Stereo Aux Input

Stereo Line Output

Kurzweil 32-voice wavetable synthesizer with 4MB of Kurzweil's legendary instrument samples.

Play and record stereo digital audio directly to DAT through the optional S/PDIF interface.

Plug & Play interface for ease of installation and automatic configuration.

Record and play crystal clear audio through professional-grade 20-bit converters.

Plug in a joystick for controlling Windows® games or connect an external MIDI synthesizer with an optional MIDI controller cable.

## Specifications

**Compatibility:** Windows® 3.x, 95 and NT 4.0 (95 Plug & Play compatible)

**Digital Audio:** Hardware Full Duplex using DSP based Hurricane™ Architecture for simultaneous record and playback with CD audio quality

**Input A/D Converter:** 20-bit delta sigma modulation with 128x over-sampling

**Output D/A Converter:** 20-bit delta sigma DAC with 128x interpolation filters

**Analog Input Mixer:** Stereo Line level and Stereo Mic level (supports condenser and dynamic mics)

**Analog Output Mixer:** Stereo Line Out comprised of DSP DAC, main synth DAC, optional second synth and auxiliary in

**MIDI:** 3 MIDI Ports, (48 Channels) assigned to external MIDI, Kurzweil master synth and optional synthesizer module

**Signal to Noise Ratio:** Better than 97dB (A weighted)

**THD:** Better than 0.005% (A weighted)

**Phase Response:** +/-0.1 degrees

**Stereo Crosstalk:** -90dB (100 Hz); -90 dB (1 kHz); -90 dB (10 kHz)

**IM Distortion:** Less than 0.01%

**Frequency Response:** 10 Hz - 22 kHz (+/- 1 dB)

**Sampling Rates:** 5.5125 kHz - 48kHz

**DSP:** Motorola 56002 executes Turtle Beach Hurricane™ Architecture accelerated digital audio transfer

**Joystick Interface:** 15 pin industry standard

**CD-ROM Interface:** Enhanced IDE

## Master Synthesizer

**Kurzweil® MASS[ies]® Synth Engine**

**MIDI Interface:** MPU-401 Compatible

**Polyphony:** 32-voice polyphony with 16 simultaneous timbres. Independent volume and pan for each voice

**Sample RAM:** Accommodates optional sample RAM (up to 48 MB with standard 72 pin SIMM modules)

**Wavetable Patch Set:** General MIDI, 128 Instrument, 4 MB Kurzweil sample set compressed to 2 MB ROM

**MIDI Digital Effects:** Pro-quality 24-bit channelized effects processor with nine reverbs, four choruses, flanging and more!

**Output D/A Converter:** 20-bit delta sigma DAC with 128x interpolation filters and 44.1 kHz or 48kHz sample rates

## System Requirements

- PC equipped with Windows® 3.1, 95 or NT 4.0
- Minimum of 486 DX2/66 (Pentium® recommended)
- 8 MB RAM (16 MB recommended)
- Hard Drive with approximately 8 MB free for software installation.
- Available 16-bit ISA slot
- CD-ROM required for software installation
- Powered speakers and/or headphones

## Includes

- Turtle Beach MultiSound® Pinnacle™ sound card
- Turtle Beach Applications CD with Voyetra Software Suite
- 3.5" Drivers disk
- CD audio cable
- Getting Started Guide

## Optional Equipment

- S/PDIF digital I/O interface
- Kurzweil™ HOMAC 32-voice synth module
- MIDI controller cable

### Product Information:

- Turtle Beach Product No.: TBS-0200-01 UPC: 7 37762 40222 2
- Pinnacle w/ Digital I/O: TBS-0202-01 UPC: 7 37762 40222 7
- Package Dimensions: H: 9.5" W: 15.5" D: 3.0" (24.1 x 39.4 x 7.6 cm)
- Package Weight: approx. 2 lb. (905 g)



**Turtle Beach™**

<http://www.tbeach.com>

To order, contact your authorized Turtle Beach reseller

