



# ULTRAPLEX™

## 32X max/14X min SCSI CAV CD-ROM Drive

### Features:

- 32X max to 14X min throughput
  - 6890 RPM
  - Constant Angular Velocity
  - 21X Drive Rating\*
- Ultra SCSI Support
  - 20MB/sec burst transfer rate
- 85ms average random access
- 512KB Buffer
- Compatible with CD-R/W (CD-ReWritable) media and packet writing (UDF format)
- Capable of Digital Audio Extraction at 24X max with "bit-by-bit" accuracy
- True Plug & Play\*\*
  - Auto selection of SCSI ID
  - Active termination
- Sub-Code output available
- Operating System Compatibility:
  - PC Compatible: OS/2 Warp, SCO
  - Microsoft Compatible: Windows 95, Windows NT
  - Novell: YES! It runs with NetWare
  - Power PC/Apple: Mac OS, AUX
  - Sun OS Compatible: Solaris X86, SGI: IRIX
  - IBM AS/400, RS-6000: AIX
  - HP: HP-UX,
  - DEC Alpha: VAX, NT
- Two-year full warranty (parts, labor, replacement)
- Unlimited Toll-Free Tech Support

**PX-32TS (Tray)**  
**PX-32CS (Caddy)**

The UltraPleX, Plextor's high-performance Ultra SCSI CAV CD-ROM drive, is a professional quality CAV (Constant Angular Velocity) drive. With the UltraPleX, users are guaranteed a minimum of fourteen speed performance and will experience up to thirty-two speed performance — four times faster than standard eight speed drives. The UltraPleX provides real world performance of 21X throughput rates.\*

The UltraPleX's burst transfer rate of 20Megabytes/second supports UltraSCSI data transfer. That's the maximum burst speed for an 8-bit bus — the maximum for CD-ROM. Other high speed devices, such as hard drives, will not be bogged down waiting for the CD-ROM. In addition, the UltraPleX boasts an industry leading average random access time of 85ms and supports flawless 24X max Digital Audio Extraction.

The UltraPleX also reads the latest in recordable CD media, CD-R/W (Re-Writable CD-ROM). The UltraPleX positions users for worry-free use of the new generation of writable CD technology — so called "MultiRead" capability.

Superior management of the UltraPleX's 512KB buffer further enhances the CD-ROM drive's efficiency and reduces CPU utilization. In combination, these features improve performance in the professional user's and computer enthusiast's entire computer system.

Demanding tasks are completed faster with the UltraPleX. It is the ideal choice for high-end desktops, workstations, servers, and even power gaming. For business use, the UltraPleX improves performance of most applications such as serving data images or video from network servers, transferring huge files to hard disk, loading large operating systems and new programs quickly, document image management, quickly searching large databases, creating multimedia presentations, playback of multimedia training materials, and many others.

The UltraPleX represents the ultimate in CD-ROM technology and will likely be the last CD-ROM drive any system will need.

*The UltraPleX: Soon to join the ranks of its award-winning predecessors!*

12/20PleX



12/20PleX



12PleX



12PleX



12PleX



\* Verified by CD-TACH Benchmark Drive Rating Score which measures CAV transfer rates relative to standard CLV transfer rates.

\*\* Requires SCAM (SCSI Configured Auto Magically) capable SCSI interface board available in all UltraPleX kits.



## Features and Benefits:

- Maximum of 32 and minimum of 14 speed data transfer. Up to four times more data throughput than eight speed drives at the outer rim of the disc using CAV CD-ROM technology. Average user will experience a drive rating of over 20X.\*
- Support for Ultra SCSI burst rates of 20MB/sec. result in faster completion of computing tasks and less drag on host CPU. Ultra SCSI speeds up the entire computer system when used with other SCSI devices.
- Fast access times, combined with Ultra SCSI burst transfer rates, speed up multitasking operating systems such as Windows NT and Windows 95. Database searches also run faster.
- Optimized management of 512KB buffer results in use of less CPU resources — under 20% utilization for increased system efficiency and improved audio-video playback. In combination with fast data access speeds, even virtual reality and demanding games work in real time directly from the UltraPlex. No need to install games on your hard disk, wasting precious space.
- Front panel and software controls for easy playback of your favorite music CDs.
- Easy installation and upgrade with SCAM (SCSI Configured Auto Magically) — SCSI IDs are auto-selected and termination can be auto-configured. Especially beneficial for first time install and sharing of external drives on several machines, SCAM is true plug and play.\*\*
- Warranty — Full two years: parts, labor, or replacement.
- More Reliability — Solid construction and advanced components place the UltraPlex a cut above the rest. Brushless motors with two bearings on cushioned suspension ensure minimal disc vibration and years of dependable service. Plextor users can even read unbalanced or poorly manufactured CDs.
- More Compatibility — All major operating systems including Windows 95, Windows NT; reads all major formats, including CD-Extra (CD-Plus), Multi-session, Enhanced CD; reads all recordable formats — CD-R (CD-Recordable) media, CD-R/W (CD-Re-Writable) and applicable standards such as CD-UDF packet writing standards. The result is worry-free installation and playback.
- Bootable CD Technology — Reboot your crashed system without reformatting your hard disk, even load multiple OSs for specialized applications and games.\*\*\*
- Choose either tray load for extra convenience or caddy load for added durability and media safety.

\* Verified by CD-TACH Benchmark Drive Rating Score which measures CAV transfer rates relative to standard CLV transfer rates.

\*\* Requires SCAM (SCSI Configured Auto Magically) capable SCSI interface board available in all UltraPlex kits.

\*\*\* Requires bootable SCSI host adapter; available in UltraPlex PCI retail kits.

## UltraPlex: PX-32TS MAXIMUM SPEED FOR ULTIMATE NEED

### SPECIFICATIONS

		<b>PX-32TSI/e Tray Load UltraSCSI CAV Drive Internal/External PX-32CSI/e Caddy Load UltraSCSI CAV Drive Internal/External</b>
<b>Disc</b>		
Usable Formats		CD-DA; CD-ROM Mode 1; CD-ROM XA Mode 2, Form 1 & Form 2; Multisession Mode 1 & 2; CD UDF (variable packets) ISO 9660-HFS; Rockridge; PhotoCD, Video CD; CD-I; CD-Extra (CD-Plus); Enhanced CD; CD-R; CD+G; CD-Midi; CD-Text
Disc Type		12cm (60 min. & 74 min.)
Disc Diameter		
<b>Performance</b>		
Data Transfer Rate Sustained		CAV (Constant Angular Velocity) 6890RPM 2.0MB/second (14X Speed) – Inner track 4.8MB/second (32X Speed) – Outer track
Burst		20MB/second (synchronous) UltraSCSI 5.0MB/second (asynchronous)
Average Random Access		85ms
Data Buffer		512KB (256 Blocks)
Spindle Motor		Brushless
<b>Error Rate</b>		Mode 1: Block/10 <sup>12</sup> Bits; Mode 2: Block/10 <sup>9</sup> Bits
<b>Front Panel</b>		
Eject		Auto Eject; Manual Emergency Eject
Lights		DISC IN; ON/BUSY
Disc Loading		Auto (Tray and Caddy)
Headphone Jack		Stereo Minijack, 0.8V at 32 Ohms
Volume Control		Wheel Knob
CD-Audio Controls		Play/Track Advance; Stop/Eject
<b>Rear Panel</b>		
Power Supply	Int	DC +5V at average 0.5A (peak 0.8A); DC +12V at average 0.7A (peak 2.2A)
	Ext	AC 100-240V 50/60 Hz, 0.3A (Auto Switching)
Power Switch	Int	N/A
	Ext	Tumbler Type; 3A, 250V
Interface Connector	Int	SCSI Bus, 50-Pin Header Type
	Ext	SCSI Bus, Two (2) 50-Pin High Density
Termination	Int	Jumper Switch
	Ext	DIP Switch
Audio Output	Int	Analog Output, Molex Connector (L*G*G*R), MPC3 Standard
	Ext	Analog Output, RCA Jacks
Jumper Switches	Int	SCSI ID, Parity, Term, Test, Block Size, Media Lock
DIP Switches	Ext	Parity, Term, Test, Block Size, Media Lock
Rotary Switch	Int	N/A
	Ext	SCSI ID
<b>Dimensions &amp; Weight</b>		
Dimensions (W/H/D)	Int	5.78" x 1.64" x 7.95" (without front panel)
	Ext	7.0" x 2.24" x 12.03" (without projection)
Weight	Int	2.4 lbs.
	Ext	5.7 lbs.
<b>Reliability</b>		
MTBF		100,000 POH
Tray Loading		30,000 Load Cycles
Caddy Loading		200,000 Load Cycles

## Plextor Manager

Plextor Manager™ 32-bit software utilities offer unique features, including Digital Audio Extraction at high speed. Create .WAV files from CD-Audio discs. Or use Plextor's new Audio FS to view and browse CD-Audio discs as .WAV files automatically. You can drag and drop these .WAV files to other applications and the extraction occurs automatically. In addition, Plextor Manager offers DiscDupe™ which gives you the power to use the UltraPlex as a source to duplicate CDs directly to a PlexWriter™ CD-R with "bit-by-bit" accuracy using Disc-at-Once method — no expensive software add-ons needed. Other valuable utilities include CD/AV player and complete audio CD control; Disc Info™, which reports the disc format, file type, tracks and number of sessions; and new with CAV technology is the QuickStart™ function — set your drive to optimize either throughput or access speed — whatever your application requires.

© 1997, PLEXTOR Corp. Plextor is a registered trademark. All rights reserved. All specifications subject to change without notice. Plextor Manager, UltraPlex and PlexWriter are trademarks of Plextor Corp. All other trademarks are the property of their respective owners.

WWW.PLEXTOR.COM 2255 BURTON DRIVE SANTA CLARA, CA 95054 800.4PLEXTOR PHONE 408.980.1838 FAX 408.986.1010