



KENWOOD



52X TrueX™ CD-ROM Drive

The fastest CD-ROM drive on earth just got faster!

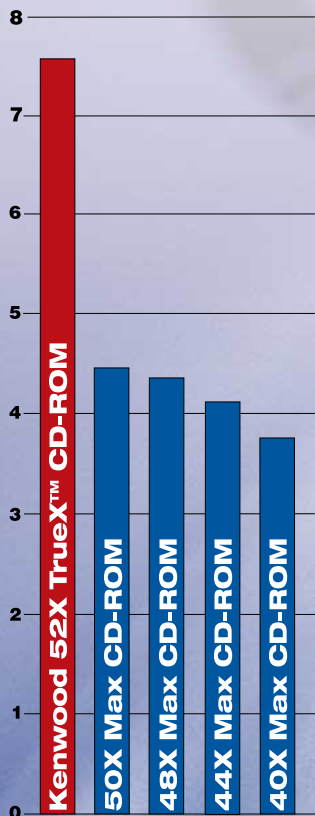
Kenwood Technologies, maker of the award winning 42X TrueX™ CD-ROM drive, now boosts performance to 52X. It's the only CD-ROM drive in the world that delivers a transfer rate ranging from 6750 – 7800 KB/sec across the entire disc! This speed is more than 50% faster than the average 50X Max CD-ROM drive available today.

Equivalent to a 75X Max drive– if one existed!*

The Kenwood 52X TrueX™ CD-ROM is made with Zen's TrueX™ technology and Kenwood's patented 7-Beam pickup, which illuminate multiple tracks simultaneously, read them in parallel, and process the data through a custom ASIC. By reading multiple tracks at once, the 52X TrueX™ CD-ROM drive actually spins the disc slower than conventional single-beam drives, resulting in extremely precise readability and very quiet operation.

The Kenwood 52X TrueX™ CD-ROM drive is faster, quieter, and more reliable than the average 50X Max drive. The 52X TrueX™ CD-ROM drive provides consistent high performance data throughput across the entire disc making it ideal for graphic-intensive applications such as 3D games, multimedia, and other reference content.

Kenwood Corporation, established in December 1946, has always stressed innovation as the means to provide customers with the best possible products. In keeping with this spirit, Kenwood has blended innovation with technology to create Kenwood TrueX™ CD-ROM drives. Kenwood TrueX™ drives feature Zen's TrueX™ technology producing the fastest CD-ROM drives on earth.



Average Transfer Rate Performance
(in MB per second)



<http://www.zenresearch.com>

AWARDS WON BY KENWOOD TRUEX™ CD-ROM DRIVES



See www.kenwoodtech.com for more awards and reviews of Kenwood's TrueX™ CD-ROM drives

FEATURES:

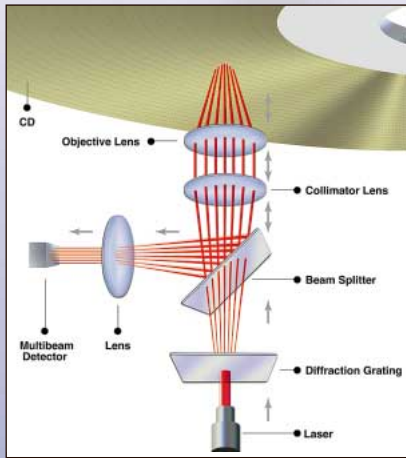
- Fastest CD-ROM drive on earth delivering a transfer rate ranging from 6750 – 7800 KB/sec across the entire disc
- Zen's TrueX™ technology and Kenwood's 7-Beam Pickup

BENEFITS:

- Hard drive-like performance without caching
- More than 50% faster than the average 50X Max CD-ROM drive available today
- Lower more reliable rotational speeds
- Precise data readability
- Quiet operation



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The Kenwood 52X TrueX™ CD-ROM drive uses Zen's TrueX™ technology to read seven tracks in parallel, yielding superior read performance compared to conventional single-beam min/max drives.

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UCR-412 52X ATAPI

Drive Interface

- EIDE/ATAPI

Disc Loading

- Motorized Tray

Disc Readable Formats

- CD-ROM Mode 1 and Mode 2
- CD-R
- CD-Extra
- CD-DA Audio
- Photo CD (Single- and Multi-Session)
- CD-I/FMV
- Video CD
- CD-ROM-XA
- CD-RW

Disc Diameter

- 8cm and 12cm

Optical Beam Reader

- Kenwood 7-Beam Pickup

Data Transfer Rate

- 6750 – 7800 KB/sec (Typical)

Burst Data Transfer Rate

- 16.6MB/sec (PIO Mode 4 and DMA Mode 2)

Access Time (1/3 Stroke)

- 90ms (Typical)

Within 7 Track Band

- 5ms

Data Buffer

- 2048KB

Eject Button

- Motorized Eject Button
- Emergency Hole

LED

- Access LED

Headphone Jack

- 3.5mm Stereo Mini-Jack

Volume Control

- Wheel Knob

Interface Connector

- 40-pin EIDE Header

CD-Audio Analog Out

- Supported

EIDE Settings

- Master, Slave, CSEL Jumper Settable

UCR-415 52X SCSI

Drive Interface

- Ultra SCSI

Disc Loading

- Motorized Tray

Disc Readable Formats

- CD-ROM Mode 1 and Mode 2
- CD-R
- CD-Extra
- CD-DA Audio
- Photo CD (Single and Multi Session)
- CD-I/FMV
- Video CD
- CD-ROM-XA
- CD-RW

Disc Diameter

- 8cm and 12cm

Optical Beam Reader

- Kenwood 7-Beam Pickup

Data Transfer Rate

- 6750 – 7800 KB/sec (Typical)

Burst Data Transfer Rate

- 20 MB/sec

Access Time (1/3 Stroke)

- 90ms (Typical)

Within 7 Track Band

- 5ms

Data Buffer

- 2048KB

Eject Button

- Motorized Eject Button
- Emergency Hole

LED

- Access LED

Headphone Jack

- 3.5mm Stereo Mini-Jack

Volume Control

- Wheel Knob

Interface Connector

- Standard 50-pin SCSI-2

CD-Audio Analog Out

- Supported

SCSI Settings

- Jumper Settable SCSI ID

General Specifications

Installation Orientation

- Horizontal or Vertical (Using Locking Tabs)

Dimensions (WxHxD)

- 14.9x4.3x20cm (5.9x1.7x7.9 in.)

Weight

- 095 kg (1.96 lbs.)

Power Supply

- DC +5V at Normal 1.2A (Peak 1.5A)
- DC +12V at Normal 0.5A (Peak 1.5A)

Reliability

MTBF

- 100,000 POH at 25% Duty Cycle

Warranty

- 1 Year

System Requirements

Minimum[^]

- IBM®-PC-AT or Compatible
- Pentium® Class Computer (or Equivalent)[†]
- Standard EIDE/ATAPI Interface (for UCR-412)
- SCSI Interface Card (for UCR-415)[‡]
- Available Half-Height Drive Bay
- Windows® 95**

Recommended

- 200 MHz Pentium® with MMX or Higher (or Equivalent)[†]
- 16MB RAM (32 MB Recommended)
- PCI Bus Master Controller
- PCI Bus Master EIDE Drivers for Windows 95/NT® (for UCR-412)
- PCI Bus Master SCSI Interface Card[‡]

The following SCSI adapters are compatible with the Kenwood 52X

TrueX™ SCSI CD-ROM drive:

– Adaptec® AHA-2940UW

– AdvanSys® ASB-3940UA

– Initio® INI-9100U

– MYLEX® BT-950

– SIIG® AP-20

– Symbios® SYM751SP

• Windows® 95 OSR2 or Windows® 98

• Windows® NT 4.0 (for UCR-415)

FREQUENTLY ASKED QUESTIONS

Q: How are Kenwood TrueX™ CD-ROM drives different from the drive that I'm currently using?

A: The Kenwood 52X TrueX™ CD-ROM drive uses Zen's TrueX™ technology and Kenwood's patented 7-Beam Pickup to deliver a transfer rate ranging from 6750 – 7800 KB/sec across the entire disc, more than 50% faster than the average 50X Max drive without hard disk caching.

Q: What are the advantages of Kenwood TrueX™ CD-ROM drives?

A: By reading multiple tracks simultaneously TrueX™ drives spin at a much slower rotational rate than other drives. In addition to the incredibly fast, transfer rate, Kenwood TrueX™ CD-ROM drives are also quieter and read data more precisely and reliably than conventional single-beam drives.

Q: Are Kenwood TrueX™ CD-ROM drives compatible with the CDs and software I'm currently using?

A: Yes, TrueX™ CD-ROM drives are just like the CD-ROM drive you are using today only *FASTER*. They are compatible with the millions of CD-ROM titles in the market today.

^{*} Based on the estimated average transfer rate since a 75X Max drive is not available. [^]52X may not be possible in some configurations and with some media.

^{**}A software driver is required to install Windows® 95. This driver is available from our web site at <http://www.kenwoodtech.com>

[†]Intel's 440LX chipset or better (or equivalent) is recommended for best results.

[‡] For a complete list of supported PCI SCSI adapters, please refer to the Kenwood web site at http://www.kenwoodtech.com/scsi_adapters/

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