

# **DX-CDm™**

## **User Manual**



### **CD Rom, Inc.**

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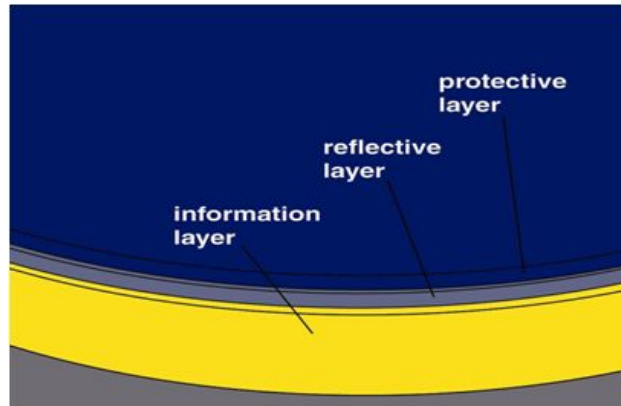
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[www.cdrominc.com](http://www.cdrominc.com)

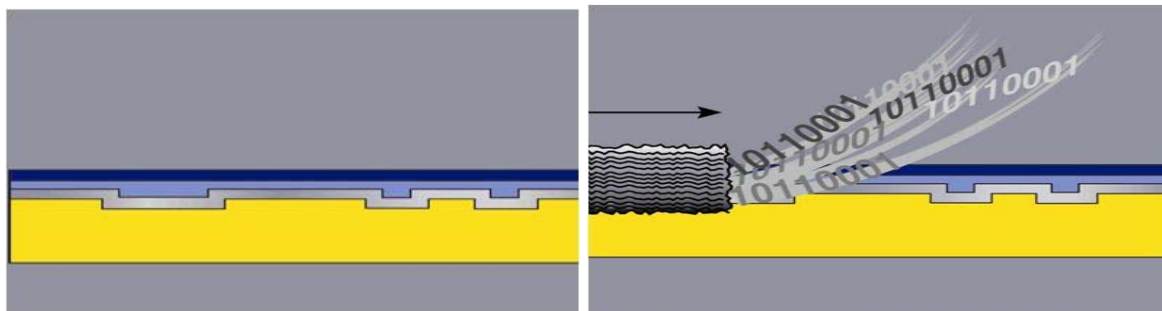
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# CD-ROM Information Bearing Sub-layers Destruction Process



A CD-ROM is made up of multiple layers: Data resides in the “information layer” of pits and lands. Data is a sequence of 9 unique spaces of lands and 9 unique sizes of pits. Data is imbedded in the polycarbonate.

Data is contained in the polycarbonate surface of a commercially produced CD-ROM disc to a depth of @ 100 nanometers (0.001mm). To destroy the data 100% in a commercially produced disc, the grinding process needs to just penetrate the polycarbonate layer. Data is contained in the chemical layer on a recordable disc, between the polycarbonate layer and the protective surfacing on the discs. To destroy 100% of the data contained in a CD-R or CD-RW disc, the chemical surfacing above the polycarbonate needs to be removed. The grinding process of the DX-CD2 provides complete 100% destruction of the information layer of both commercially produced CD-ROM discs, and CD recordable discs.



The DX-CD2's technology physically removes the information layer from the CD-ROM permanently and safely while keeping the CD intact.

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# Introduction

Congratulations on purchasing the DX-CDm™ CD Destruction Device. The DX-CDm™ is the first commercially available, field portable, manually operated device to remove the data from a CD, CD-ROM or CD-RW disc. The data layer is ground into a fine powder leaving a polycarbonate disc with no trace of the original data and can be recycled or thrown in the trash.

## **DX-CDm™ Features:**

**Fast Operation** – 5 to 15 seconds to completely remove all information from any CD, CD-R or CD-RW disc.

**High Level of Security** – Designed to substantially exceed all published recommendations and standards for the removal of the data layer on compact disc media.

**Media Identification** – The inter hub or clamping area remains untouched to allow positive media identification for those applications where certification of destruction is required.

**Field Portable/Vehicle Mountable** – Weight < 20 pounds (< 9 kg), Height 10 inches (25.4 cm), Diameter 7 inches (17.8 cm).

**Mechanical Operation** – Designed for easy operation with a retractable handle.

**Environmentally Safe Operation** – Meets health and safety requirements.

**Replaceable Parts** – Available from your sales representative.

**U.S. Patents Issued** - Patent # 5,954,569 and # 6,039,637 - other patents pending.

**On GSA Schedule:** GS-35F-0450J (CD ROM, Inc.) Part # G110401  
See: [www.gsaadvantage.gov](http://www.gsaadvantage.gov)

# Terms

The DX-CDm™ CD Destruction Device is constructed from precision-machined materials, and benefits from an elegant design and construction. The following are terms used for the various parts of the DX-CDm™ that will be used in this manual.

**Base:** The flat square plate and vertical pillars that hold the body affixed to a work surface.

**Body:** The cylindrical part of the DX-CDm™ that contains the grinding heads and mechanism.

**Media Plate:** The “door” of the DX-CDm™ that the CD to be destroyed is placed on. The media plate is attached to the body with a hinge and seals with three locking hasps.

**Handle:** The black spring loaded handle on the top of the body used to operate the mechanism.

**Grinding Heads:** The two large and one small cylindrical objects inside the body that hold the abrasive discs.

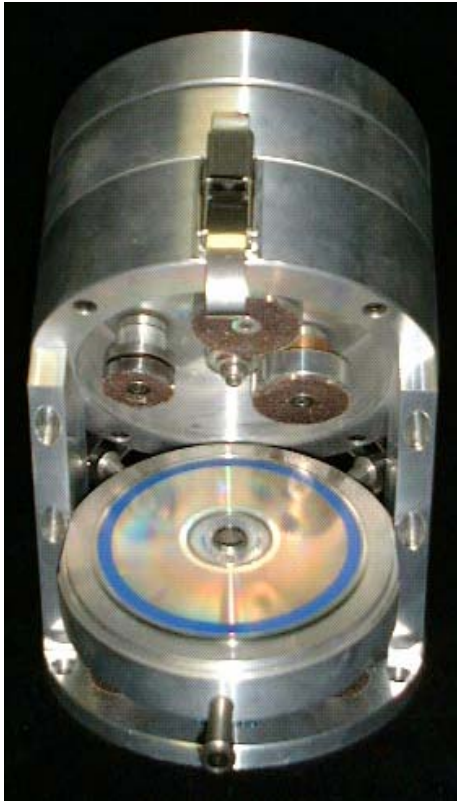
**Abrasive Discs:** The thin, sandpaper-like discs mounted to each Grinding Head.



# Operation

## Mounting the DX-CDm™

The DX-CDm™ CD Destruction Device must be properly mounted to a suitable surface before operation. You may bolt or screw the DX-CDm™ to a table, wall, or other immovable object using the predrilled mounting holes on the base. You may also mount the DX-CDm™ to a table or workbench using standard C-clamps. Be sure to use clamps that are large enough to extend at least 3 centimeters into the base to ensure a secure mount.



**TIP:** Never turn the handle with the Media Plate closed and latched if there is no CD inserted. This can reduce the life span of the abrasive discs!

A properly mounted DX-CDm™ should be securely attached to the chosen surface, and there should be good clearance so that the handle can be turned efficiently.

1. Open the Media Plate by first unfastening the two rear hasps, and then the front hasp.

2. Set the CD to be destroyed onto the Media Plate with the label side up. The center hole should fit over the nub in the center of the plate.

**WARNING:** If the CD has a paper label or any other stickers on its surface, they must be removed before inserting the disc into the DX-CDm™.

## Destroying a CD

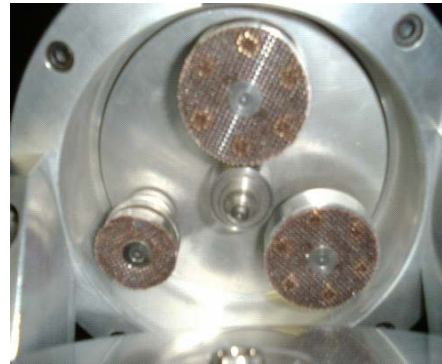
3. Close the Media Plate; latch the front hasp, and then the rear ones. Ensure that the Media Plate is fully closed and that the hasps are all completely latched.
4. Turn the handle clockwise for several revolutions. In real world tests, the ideal number of revolutions needed to completely destroy the data layer of the CD was 20 complete revolutions. You may open the Media Plate at any time when the handle is not being turned to check on the progress. After you are done remove the polycarbonate disc. You may now dispose or recycle the destroyed disc.



**SPECIAL NOTE:** While 20 turns has been found to completely remove the data from most CD media, this is not an absolute number. Some CD-R media without protective coatings can be completely destroyed in as few as 10 turns while discs with UV cured protective coatings and some discs with multi-layer silk-screening may require as many as 75 turns. Additionally, variations in labeling and dye layer chemistry will affect the number of discs that can be destroyed before changing the abrasive pads.

## **Maintenance**

The DX-CDm™ requires periodic replacement of the abrasive pads to maintain efficient operation. The grinding heads with the abrasive pads are designed to be easily removed without any tools.



## **Grinding Head Removal**

1. Open the Media Plate to expose the Abrasive Pads and the Grinding Heads.
2. Firmly grasp the Grinding Head with your fingers and pull the grinding head straight out from its mounting post.

## **Abrasive Pad Removal**

1. With the Grinding Head removed, the Abrasive Pad can be released by pressing down on the plastic tab that protrudes from the base of the square indentation in the brass mounting hub on the Grinding Head.
2. Once released, the Abrasive Pad can be easily removed by pulling it off from the abrasive side or pushing it out from the back with any thin object.





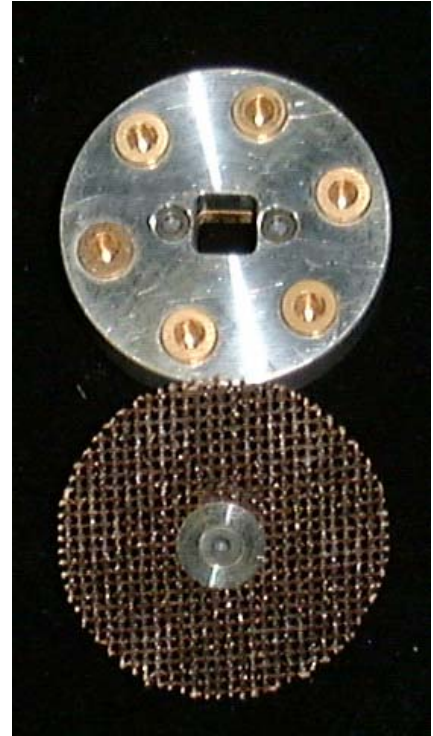
### **Abrasive Pad Replacement**

The Abrasive Pad can be replaced by pressing a new pad of the same size into the Grinding head until it snaps into place.

**NOTE:** The Abrasive Pad can be used twice. By rotating the pad one-quarter turn and reinserting it, a previously unused grinding area will become the active grinding area. This can only be done once for each Abrasive Pad.

### **Grinding Head Replacement**

Line up the Grinding Head with the mounting post from which it was removed and press it firmly into place.



# Patents and Copyright Information

The DX-CDm™ is currently covered by Patent # 5,954,569 and Patent # 6,039,637 - other patents pending.

DX-CDm™ is a trademark of CD Rom, Incorporated, Eden Prairie, Minnesota. The CD Rom, Incorporated logo is a Registered Trademark of CD Rom, Incorporated, Eden Prairie, Minnesota. This document is Copyright © 2008 CD Rom, Incorporated, All Rights Reserved. This manual may not be distributed or reproduced, in whole or in part, electronically or by other means, without the expressed written consent of CD Rom, Incorporated.

<b>DX-CDm™ MANUAL DESTRUCTION DEVICE AND CONSUMABLES</b>				
<b>PART #</b>		<b>PRODUCT NAME</b>	<b>MSRP PRICE</b>	<b>GSA PRICE</b>
1.	110401	DX-CDm™ Manual CD Destruction Device. No power used in operation. Department of Defense approved. Meets NSA/CSS Specifications 04-02 for Optical Media Destruction Devices. Comes with 3 sets of replacement pads. 100% unrecoverable data.	\$2,683.00	\$2,495.00
2.	791001	DX-CDm™ Replacement Pad set. Approximately 100 discs per necessary replacement.	\$21.45	\$19.95
<p>Warranty = 1 year parts and labor</p> <p>Unauthorized shipment of the DX-CD product line to foreign countries voids manufacturer's warranty. Check with your distributor before shipping outside the Continental USA</p>				
<b>DX-CD2™ ELECTRONIC DESTRUCTION DEVICE AND CONSUMABLES</b>				
1.	123601	DX-CD2™ 2nd Generation Electronic Disc Destruction Device. Department of Defense approved. Meets NSA/CSS Specifications 04-02 for Optical Media Destruction Devices. Comes with two replaceable cutters and two replaceable dust bags. 100% unrecoverable data.	\$1930.00	\$1795.00
2.	123603	Replacement Cutter for DX-CD2™. Disposable cutter assembly. Approximately 1000 discs per necessary replacement.	\$79.95	\$74.35
3.	791002	Dust Bag DX-CD2™, set of three. Disposable HEPA dust bag. Up to 500 disc storage per dust bag.	\$9.95	\$9.25
4.	123610	DX-DVDm™ Manual DVD Disc Splitter. Optional attachment for the DX-CDm™ and DX-CD2™. Splits the DVD in two halves for insertion into disc destruction devices.	\$99.99	\$92.99
<p>Warranty = 1 year parts and labor</p> <p>Unauthorized shipment of the DX-CD product line to foreign countries voids manufacturer's warranty. Check with your distributor before shipping outside the Continental USA</p>				

# Shipping Information

## Government Orders

Freight: No charge for UPS Ground freight if shipped within the Continental US. If shipment is to Hawaii, Alaska or internationally the freight charge is at cost. Next day charges will apply.

Tax: No tax for Federal government, state or local.

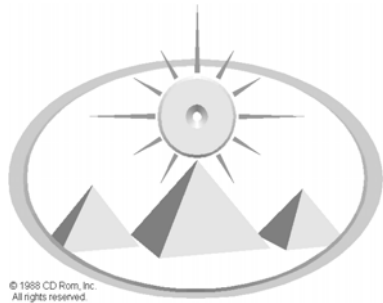
**Total Price will be calculated as freight applies.**

## Commercial Orders

Freight: Costs apply. Charge is at cost. Next day charges will apply.

Tax: 6.5% Tax for Minnesota Residents

**Total Price will be calculated as freight and tax applies.**



## Order Form

**TO ORDER BY FAX or MAIL PLEASE USE THIS FORM**  
 Please include a phone number where you can be reached during the day so we may contact you with questions or information regarding your order.

FAX ORDERS: 952-832-5434

<b>Ship To:</b>	
Name:	_____
Company:	_____
Address:	_____
	_____
City:	_____
State:	_____ Zip: _____
Phone:	_____ Fax: _____
Email:	_____

<b>Bill To:</b>	
Name:	_____
Company:	_____
Address:	_____
	_____
City:	_____
State:	_____ Zip: _____
Phone:	_____ Fax: _____
Email:	_____

Item#	Product Name	Product Number	QTY	Unit Price	Total Price
1					
2					
3					
4					
5					
6					
7					
<b>CD ROM, Inc.</b> 6520 Edenvale Blvd, Suite # 230 Eden Prairie, MN 55346 Toll Free: 1.866.66.CDROM(23766)				SubTotal:	
				Freight	
				<i>Free UPS Ground for GSA</i>	
				Tax (6.5% MN)	
				<b>TOTAL:</b>	

<b>Payment Method:</b>	
Check Enclosed:	<input type="checkbox"/> PO #: _____
Credit Card:	VISA <input type="checkbox"/> M.C. <input type="checkbox"/> AMEX <input type="checkbox"/>
CC#:	_____
Expiration:	_____ V-Code: _____
Name: <i>on card</i>	_____
Signature:	_____

GSA Contract Holder: CD Rom, Inc.  
 GSA Schedule # GS-35F-0450J  
 Expires: May 18, 2009  
 Cage Code: OHUC4  
 Fed. Tax #84-112-4773  
 Duns # 60-229-5909  
 Small Business  
 CCR Registered  
 POC: Roger Hutchison  
 rshutch@cdrominc.com

# Recycle for a Greener Earth



**Earth as seen from Apollo 17**

The DX-CDm™ is designed to grind the data layer of a CD-ROM, CD-R, or CD-RW disc thus making the information totally unreadable. The resulting process produces a clear polycarbonate disc; the residual ink and metals are collected in the dust bag.

The polycarbonate disc can be discarded in a normal trash container. However, an alternative recycling program is offered, which takes all discarded materials and recycles them for a cleaner environment.

If you would like Digital Data Destruction to recycle your materials at no cost to you, except the freight to ship them to us, please collect your discs and send to:

**Digital Data Destruction Services, Inc.**  
Recycle Program for DX-CDm™

68323 Lea Street  
Iron River, WI 54847  
[www.d3services.com](http://www.d3services.com)