



# Intercom Computer Systems



## I-7595 5 ¼" Optical Disk Archive for IBM Users

### Highlights

The I-7595 optical mass storage system for IBM mainframes is based on the robust and well proven 5 ¼" optical disk technology. It is IBM 3490 and IBM 3995 compatible and supports all magnetic tape applications and IBM's Object Access Method (OAM). The I-7595 provides a cost effective way to improve System Managed Storage (SMS) and improves document handling, work flow processing, back up and archiving significantly.

#### Unbeatable Storage Capacity

Optical mass storage provides an unsurpassed price/performance ratio for large amounts of data, currently stored on paper, microfiche, tape or magnetic disks. It enhances the system managed storage hierarchy, improves productivity, reduces cost by a factor of 10, compared with magnetic disk storage and improves access time by a factor of 10 to 100, compared to traditional 3490 / 3590 tape systems.

The I-7595 utilizes the well proven and reliable 5 ¼" magneto optical (MO) disk technology. Supported is read/write capability with LIMDOW direct overwrite as well as continuous composite WORM (CCW) technology, meeting the legal requirements for long term document recording.

A 5 ¼" optical disk holds as many as 5,2 GB of data. With direct access capability, a particular data file can be accessed within milliseconds rather than seconds or minutes, compared to magnetic tape storage. As many as 16 optical disk drives can be connected to the I-7595 control unit, providing total online storage capacity of 83,2 gigabytes with an average access time of 100 ms.

#### Automatic Optical Disk Library

Automated Disk Library (ADL) extends the near online capacity to 2.6 terabytes while

maintaining an average access time of 8 seconds.

The I-7595 Optical Disk Archive includes 2 to 12 disk drives with up to 62,4 GB under head and is available with 20 to 500 optical disks, providing up to 2,6 TB of data.

#### IBM 3490 Compatibility

The I-7595 is available with IBM 3490E magnetic tape compatibility. It provides 10 to 100 times faster access to particular data files as traditional tape systems and can significantly improve archiving, back up and restore. The IBM 3490 compatible version is supported by OS/390, VM and VSE operating systems

#### OAM Support under OS/390

The IBM 3995 compatible version is supported by IBM's Object Access Method (OAM). OAM is a new way of viewing data as objects rather than data sets, blocks, records or count-key-data fields. The user provides data in the form of images, voice, text, fax, multi-media, etc., and the OAM manages it. You don't need to deal with the geometry of a particular storage media format.

Support for DFSMS, Image Plus, On Demand, Flow Mark Visual Info and other IBM applications is included.

#### Optical Disk Library

20 to 500 Optical Disks  
104 to 2600 GB Capacity  
2 to 12 Optical Disk Drivers  
10,4 to 62,4 GB under Head

#### Media

5 ¼" Magnetic Optical Disk  
5,2 GB per Optical Disk  
CC-Worm  
Rewritable

#### Application

Workflow Processing  
Online Transaktion Processing  
Long Term Archiving  
Microfilm Replacement

#### Connectivity

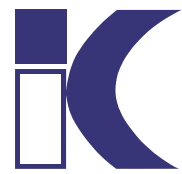
ESCON, Block Multiplex Channel  
SCSI, Fibre Channel

#### Hardware Compatibility

IBM 3490 compatible  
IBM 3995 compatible

#### Software Compatibility

OS/390, VM, VSE, OAM  
BS2000



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## IBM S/390 and S/370 Connectivity

The I-7595 can be equipped with up to eight ESCON and/or Block Multiplex Channel interfaces. Channel data rates ranges from 4.5 MB/s on Block Multiplex Channel up to 17 MB/s on ESCON Channel.

## Write-Once-Read-Multiple

The magneto optical CC-WORM recording technology employed by the I-7595 optical disk storage system meets the legal requirements for long term document archiving. Once recorded, data can never be manipulated. This feature, combined with a data storage life time of 35 years, qualifies the I-7595 as a long term archive system and an evolutionary alternative to paper and microfilm.

## Applications

The I-7595 strengthens the position of mainframes as enterprise wide data servers. It maintains high data volumes and provides fast access to more online data for the ever increasing number of data hungry clients. The I-7595 will significantly change the way of data processing in four major areas:

1. Information on Demand: With optical storage, more data can be held online and accessed faster. Clients can do their job more effectively. Optical mass storage eliminates unproductive and expensive wait time for online data processing and avoids manual intervention for offline data retrieval.
2. Imaging: With support for Image Plus and Visual Info, large documents and images can be managed cost effectively in electronic format rather than on paper. Displaying and printing images on demand will reduce paper handling significantly.
3. Work Flow Management: The new view to data as objects rather than as bytes and blocks will simplify improve access time and work flow management.
4. Document Management: Optical disk can provide space for data, still stored on paper or micro film. Data in electronic format is managed under system control and investigations for older data can be automated, avoiding manual intervention. The

Write Once, Read Multiple (CCW) technology and the 35 year life time for optical storage meet the legal requirements for long term document archiving.

## Specifications

### Optical Disk Media

Recording Sides	2
Media Capacity	5,2 GB

### Technology

5 ¼ " Magneto Optic  
LIMDOW Direct Overwrite  
CCW WORM Technology

### Disk Drives

Number of R/W Heads	2
R/W Data Rate	2,48 to 5,07 MB/s
Average Seek Time	25 ms
External Drives per System	16

### Automated Disk Library

Internal Disk Drives per ADL	2 to 12
Data under R/W Heads	up to 62,4 GB
Number of Disks	20 to 500
Average Disk Change Time	8s
Total Capacity	2.6 TB

### Hardware Compatibility

IBM 3995 Model 132  
IBM 3490 Model A10  
1 to 8 Channel Interfaces (ESCON or BMC)

### Software Compatibility

OS/390, MVS  
Object Access Method (OAM)  
VM, VSE

### Applications

DFSMS  
IAFC, RMDS  
Image Plus, Visual Info  
Flow Mark  
Domino Document Manager

### Operation Environment

110/208V, 10A, 60 Hz  
200/240V, 7A, 50 Hz  
10 to 80 % relative Humidity  
10 to 42 Grad C, 50 to 108 Grad F

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