

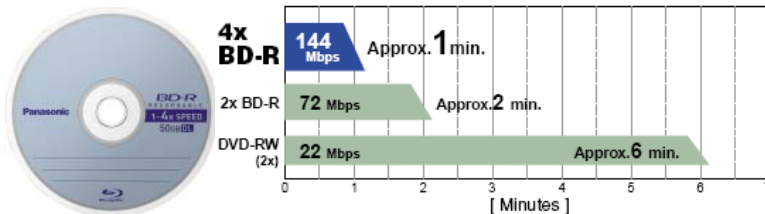


Introduction

CIT introduces 30TB Electronic Data Archive System to replace and reduce the currently used physical storage for conventional films with digital archiving system having 50+ years of data life. It is actually a jukebox device conceived to handle Blu-ray optical storage technologies. The biggest advantage of CIT/DRSAM-30TB Electronic Data Archive System is that it completely eliminates the degradation and ageing of currently stored radiographic data.

Permanent Archive Media

The CIT/DRSAM-30TB Electronic Data Archive System employs Blu-ray disk as the archive media to permanently store NDE data for a longer period of time. Blu-ray disk, which is the next generation optical storage technology, offers larger storage capacity and more data reliability as compared to other optical storage disks. Another vital benefit provided by Blu-ray disks is the fast 4x recording speed (upto 144 Mbps), which is accomplished through phase change technology. Therefore, Blu-ray is considered to be the best archive media for digital radiographic applications.



Overview

The CIT/DRSAM-30TB Electronic Data Archive System has been designed to meet the challenging requirements to store vast amount of NDE digitised and digital radiographic data. This system enables you to archive 30TB of your radiographic data on 600 Blu-ray disk media of storage capacity 50GB (single sided) each. The 30TB is the maximum storage capacity achieved using this system. If you are looking for more, you need to adopt CIT/DRSAM-120TB Electronic Data Archive System.

The CIT/DRSAM-30TB jukebox device can be used seamlessly with the CIT/DR4200 NDE retrieval management system, which is actually a system used for retrieving the data from electronic permanent archives efficiently and speedily. Multiple DRSAMs may also be setup in a distributed or centralized way with synchronisation among several archives connected to various CIT's digitised or digital radiographic systems. This enables the enterprise to manage multiple projects and the product life cycles.



Media Capacity: 600 Disks



What Does It Do?

Replaces the conventional film radiographs archives system with electronic archiving.

While Conventional Film Archive Requires

- ✦ Physical space (buildings, storage spaces)
- ✦ Environment controlled
- ✦ Radiography ancillary items wrappers, labels, films, shelves
- ✦ Transportation cost for referral
- ✦ Complicated archive retrieval
- ✦ Slower exchange of or access to data
- ✦ Misfiling
- ✦ Cumbersome operations
- ✦ Time consuming
- ✦ Expensive retrieval

CIT/DRSAM-30TB Electronic Data Archive System Offers

- ✦ Computing solutions on Blu-ray disks
- ✦ Information archived in structured data format
- ✦ Minimum storage space requirement
- ✦ Local or remote data retrieval
- ✦ Maximum system availability
- ✦ Same information can be reviewed and shared by more than one person at the same time from different locations around the globe operating on the same objective
- ✦ 50+ years of data life
- ✦ Comfortable operating facility
- ✦ Time efficient
- ✦ Extremely powerful
- ✦ Cost-effective solution
- ✦ Faster retrieval



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Technical Specifications

1. Product Archival

- Digitised radiograph films
- Digitally captured radiographs
- Digitised NDE documents and reports
- Other digital records

2. Disk Storage Capacity and Details

- Blu-ray: 50GB (Single Sided)
- Media Type: High-density optical disk
- Encoding: MPEG-2, H-264/MPEG-4 AVC, VC-1
- Laser wavelength: 405nm (blue laser)
- Data transfer speed: 9MB/s
- Disk diameter: 120mm
- Disk thickness: 1.2mm
- Protection layer: 0.1mm
- Media life: 50+ years
- Media supplier: Multiple

3. DRSAM Physical Architecture

- A module of 600 disk capacity
- Estimated formatted: 30TB Maximum
- Bar code disk identity

4. Media Capacity

- 600 disks

5. Total Storage Capacity

- 30TB

6. Number of Magazines

- 12

7. Number of Disks per Magazines

- 50

8. Number of Drives

- 6 (Max 12)

9. Changeover Time

- 4.5 Sec

10. Interface Drives

- High speed LVD SCSI interface (160MB/sec) shielded 68P (Pin Type, SCSI III compliant)

11. Robotics Interface

- High Speed LVD SCSI Interface

12. Other Interfaces

- RS-232 (for diagnosis); 10/100BaseTX(NAS)

13. Media Handling

- Tray based media handling for optimal lifespan

14. Housing Features

- Dust proof housing with internal air filter mechanism

15. Dimensions (W * H * D)

- 777 * 1641 * 807

16. Weight (Empty)

- 104 Kg

17. Power Consumption

- 140w

18. MSBF (Mean Swaps Between Failures)

- 2.5 million swap cycles

19. DRSAM Storage Functions

- Mounts/dismounts of disk media
- Houses 600 disk slots
- Formatting of disk media utility
- Disk space utilization management
- Disk media identification via bar code
- Project information management and segregation of disk details
- House keeping quality statistics
- Disk status
- Fault logging and log in statistics
- Archive management statistics add in
- Remove volume
- Historic logs

20. Radiographic Image Data Storage

| File Size | Number of Files Stored |
|-----------|------------------------|
| 25MB | 1258291 (Approx) |
| 50MB | 629146 (Approx) |
| 100MB | 314573 (Approx) |

21. Product Ordering Code

| Part Code | Description |
|------------------------------|--|
| CIT/DRSAM-30TB [Blu-ray] | CIT Digital Radiography Scalable Archive Management 400 Disk Slots |
| CIT/DRSAM Blu-ray disk media | 50GB media with bar codes |
| CIT/DRSAM UPS | Uninterruptible power supply unit for DRSAM |

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