

## Holographic Drive **HDS-300R**

### Three Dimension Recording

- Multiple layer data recording
- Achieves higher density recording and faster transfer rate
- Single page records 1.4 Mb data

### Safety and Reliability

- WORM (Write-Once-Read-Many) Media employed
- Empowered by Multiple layer data and encryption technology
- 50 years archive life

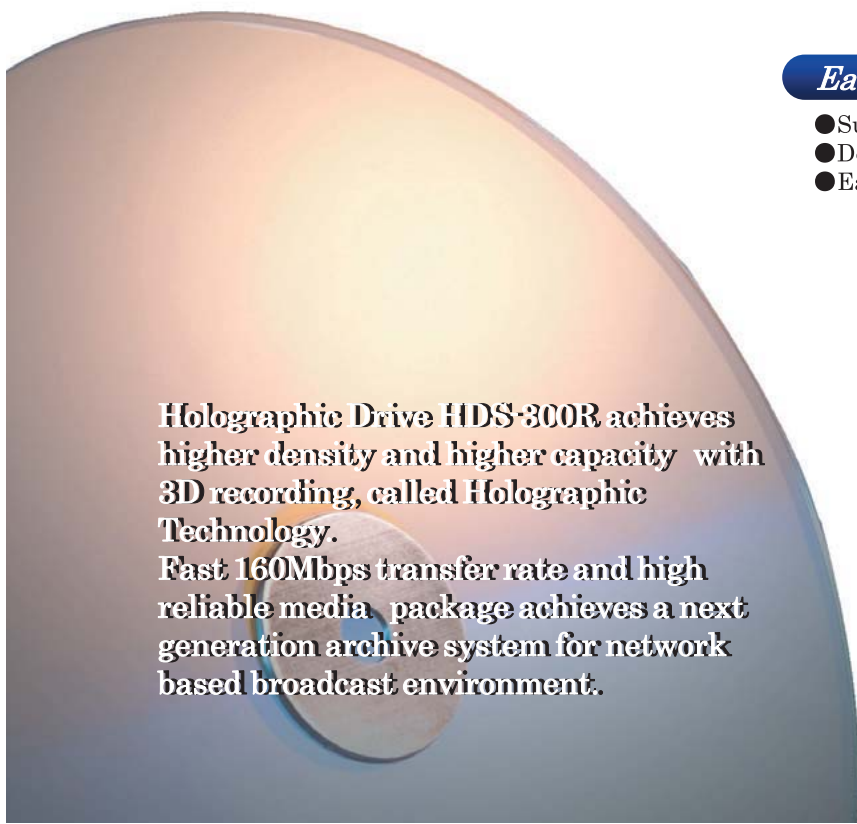
### Cost Effective

- Common I/F allows easy replacement of current tape devices
- Higher performance to cost ratio than existing tape or optical media
- One Holographic Disk equals 64 DVD capacity



### Ease of System Integration

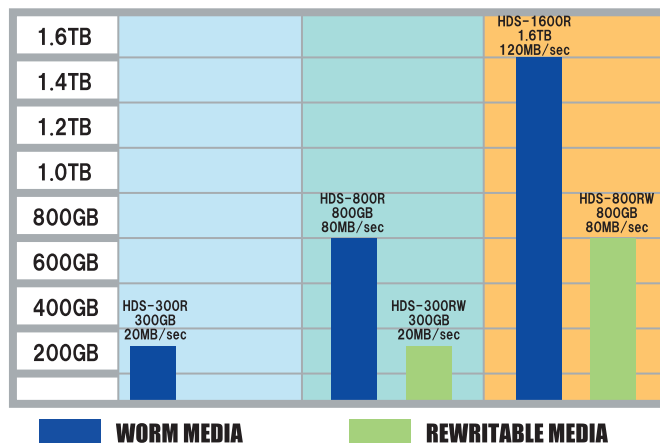
- Supports industry standard network interface
- Desktop, rackmount, and library configurations available
- Easy integration with asset management and archive software



Holographic Drive HDS-300R achieves higher density and higher capacity with 3D recording, called Holographic Technology.

Fast 160Mbps transfer rate and high reliable media package achieves a next generation archive system for network based broadcast environment.

### Holographic ROADMAP



# Holographic Drive

# HDS-300R



## Rating/Performance

User Capacity	300GB(Native, Uncompressed)	
Data Transfer Rate	Writing	160Mbps
	Reading	160Mbps
Format	Recordable/write once, read many	
Media Load Time	640Mbps(80 Mbytes / sec.)	
Media Unload Time	5 seconds	
Average Seek Time	5 seconds	
Average Seek Time	250 milliseconds	
Disk Outer Dimension	130mm(5.25 inch)	
Page Capacity	1.4 MB	
Laser Wave length	405nm	
Corrected BER	<10 <sup>-15</sup>	
Interface	SCSI(U160), FibreChannel, Gigabit Ethernet(FTP)	
Operating Temperature	10 to 40 degree C (50 to 104 degree F)	
Operating Humidity	10% to 85% (Non-condensing)	
Regulatory	UL, CSR, FCC Class B, TUV, CE-Office Env.	
MTBF	100K Power On Hours	
Dimensions	146.1W x 133.4H x 660.4Dmm( 5.75x5.25x26.0 inches)	
Power Requirement	100VAC to 127VAC / 200VAC to 240VAC	
Power Consumption	80W	

### Archive Solution

- Archive for video media content
- Transition from existing tape systems
- Media Archive for Tapless systems

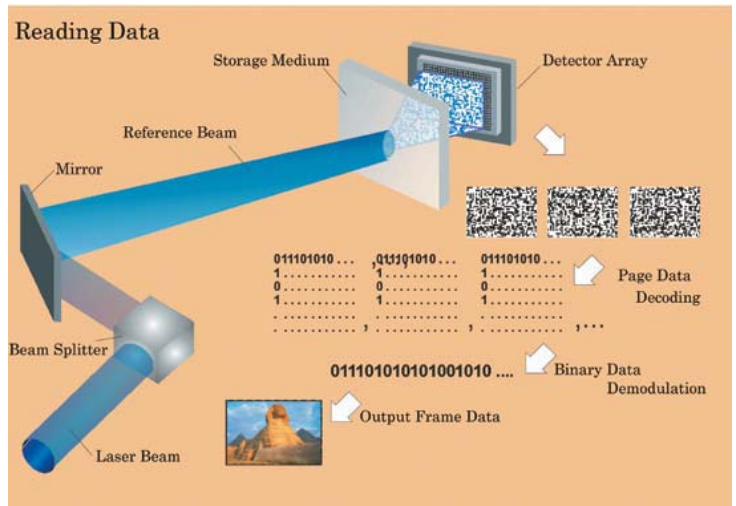
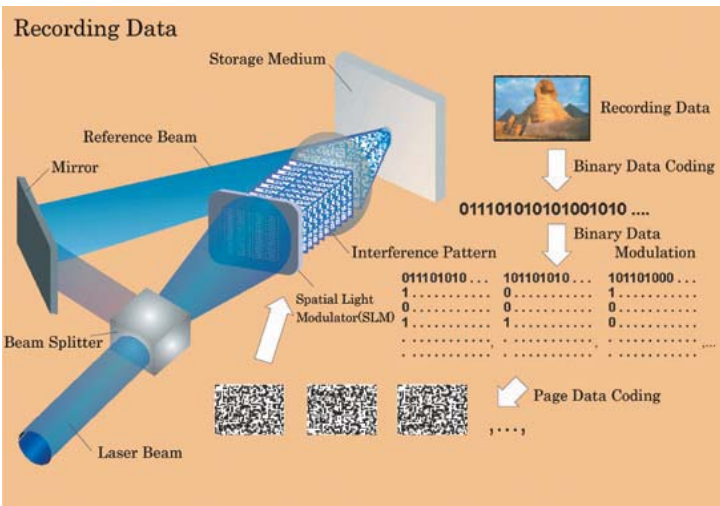
## About Holographic Storage

### How it records:

Light from single laser beam is split into reference beam and data carrying beam. Data carrying beam is encoded through SLM (spatial light modulator) to electronic data of 0's and 1's into optical "Checker Board" pattern. At the intersection of reference beam and data carrying beam, a chemical reaction in light-sensitive medium causes the hologram to be stored. Write transfer rate is 160Mbps (Sustained).

### How it reads:

The hologram is projected with reference beam onto detector array behind the medium. Detector array reads full page of data in parallel. Read transfer rate is 160Mbps (Sustained).



Design and Specifications are subject to change without notice.

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