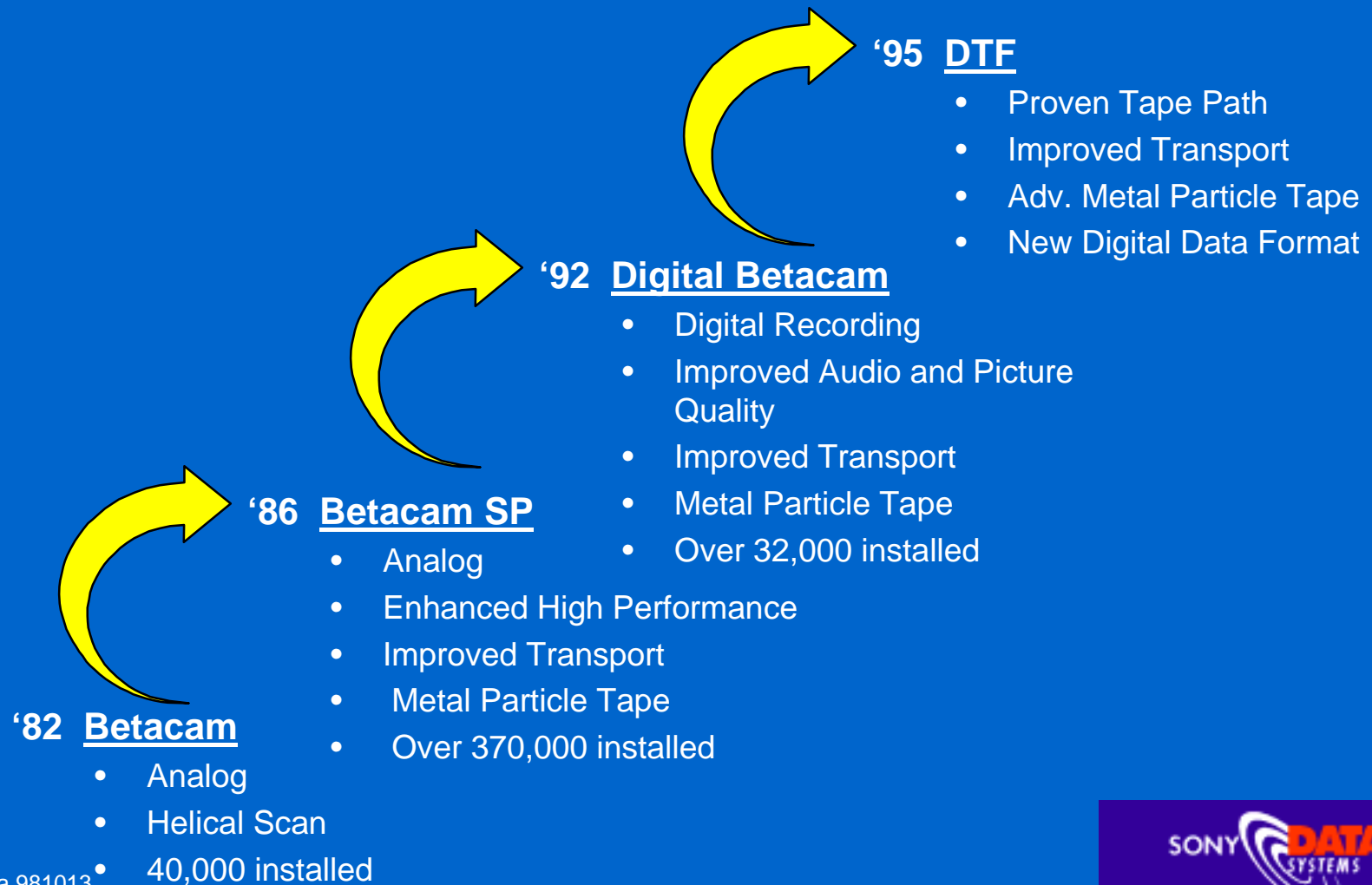


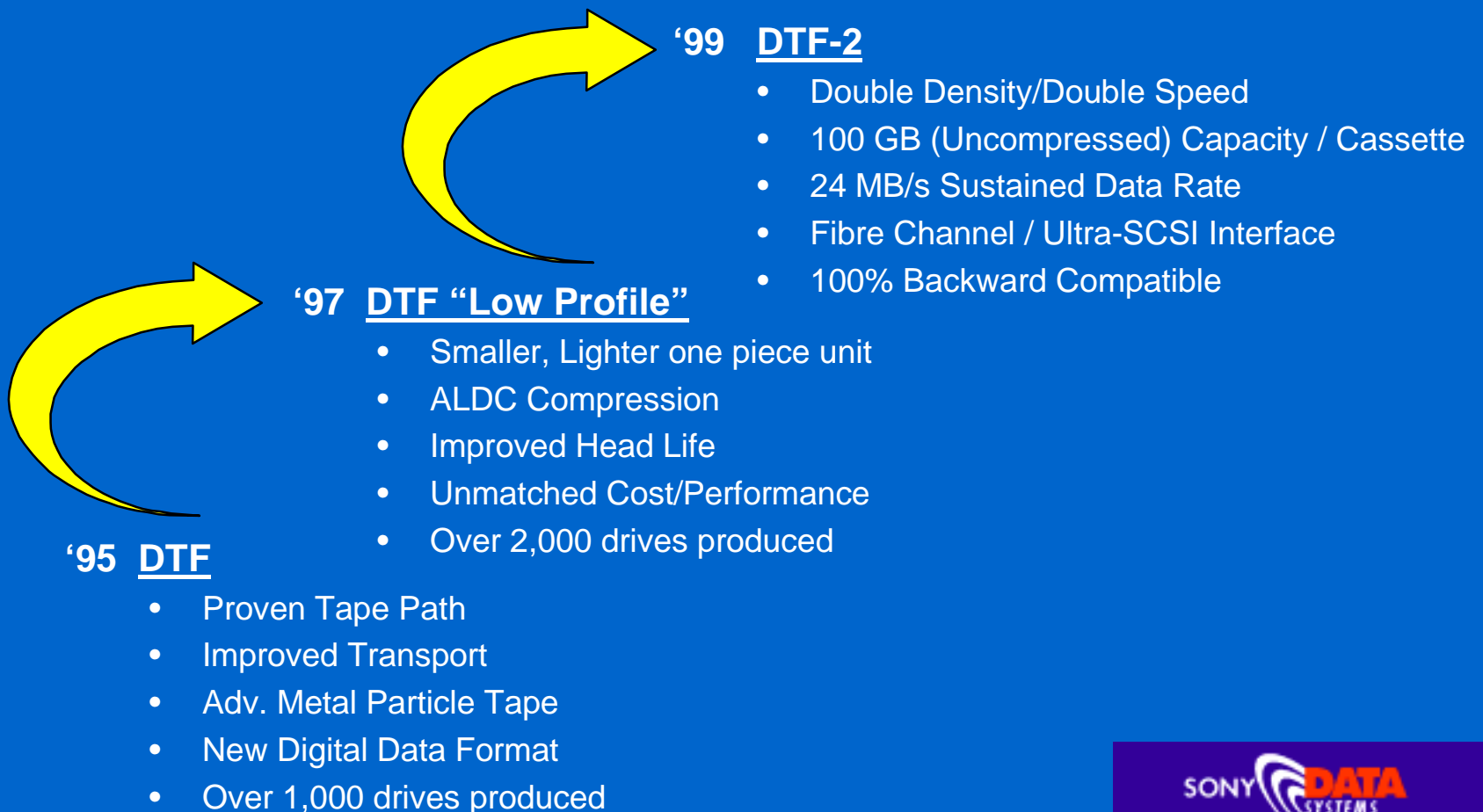
Broadcast Products Company

> 450,000 1/2" Tape Drives



Broadcast Products Company (con't)

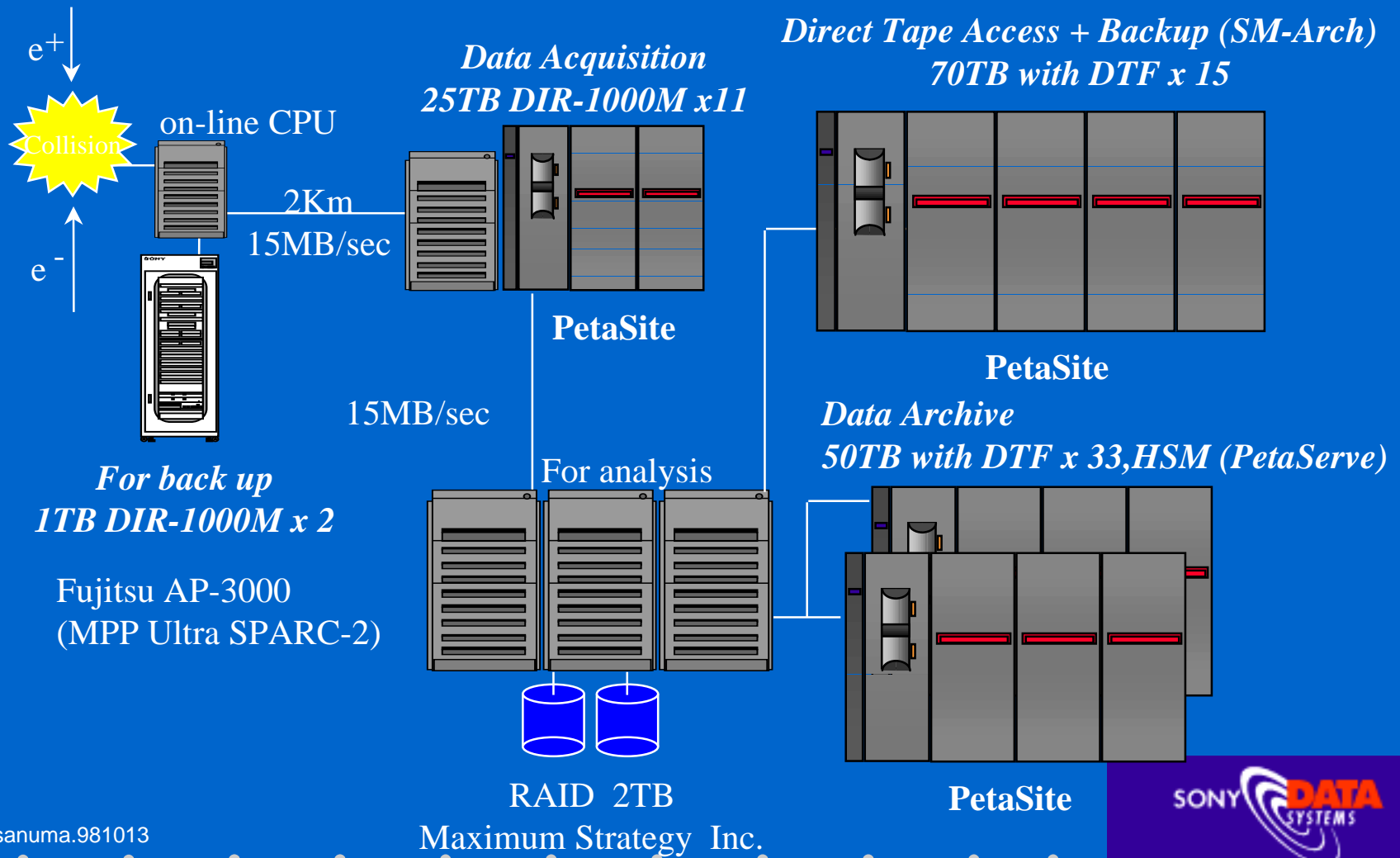
> 450,000 1/2" Tape Drives



DTF Software Connectivity

- Avalon Archive Manager
- Cheyenne
 - ARCserve NT
- Dantz
 - Retrospec
- Discreet Logic
 - Flame, Inferno
- EDS
 - Media Vault
- EMASS
 - AMASS Data Manager
- EMC
 - Data Manager (EDM)
- Grey Matter Response
 - Mezzo
- IBM ADSM
 - Adstar
- Kodak
 - Cineon
- Legato
 - Networker 5.0
- LSC, Inc.
 - SAM FS
- Seagate Software
 - Backup Exec
- Spectra Logic
 - Alexandria
- Unison
 - Roadrunner 3.0
- Veritas
 - Netbackup 3.1

High Energy Physics Laboratory (KEK) B-FACTORY Project, Tsukuba Japan

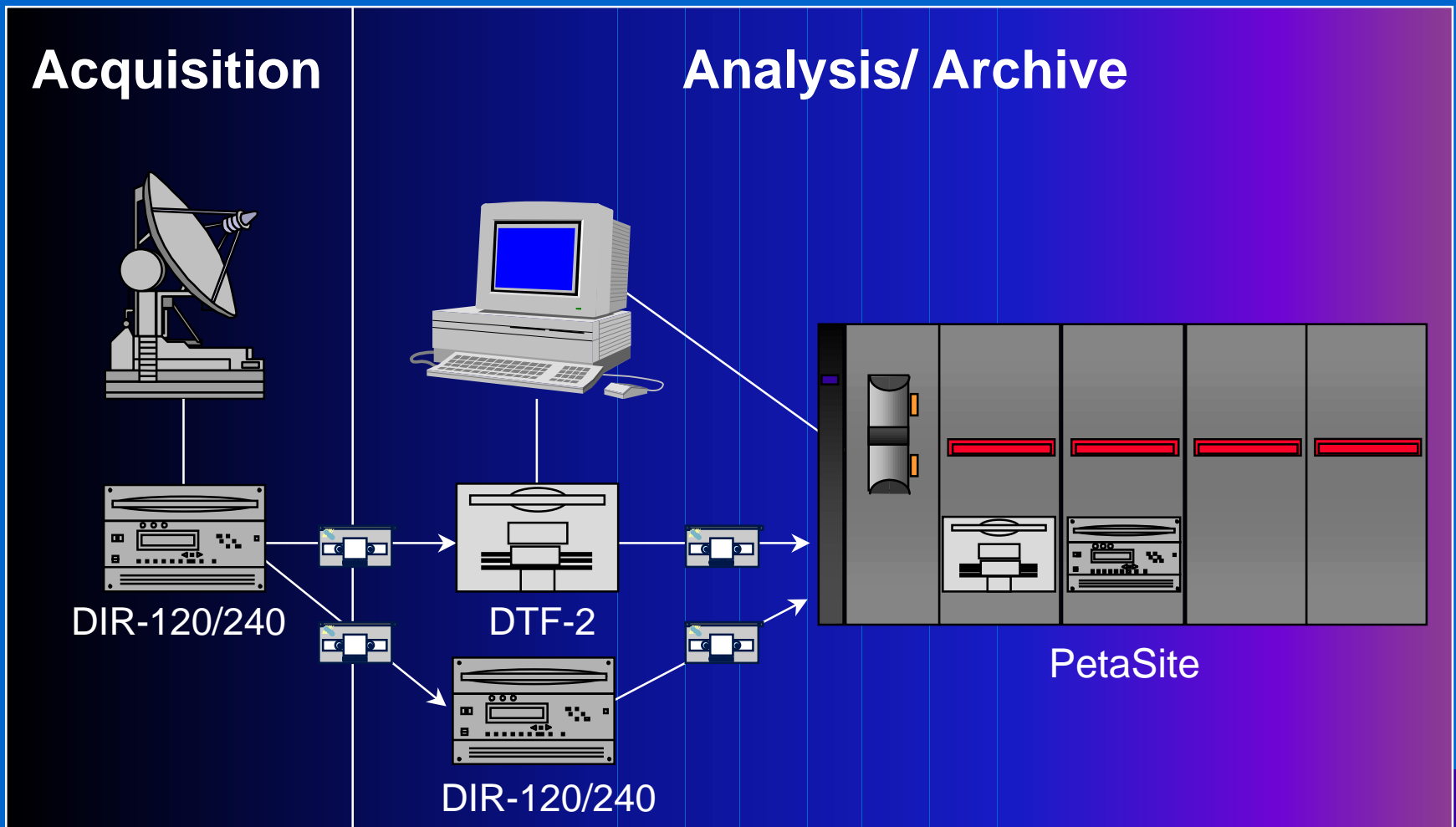


DIR-120/240 Main Specifications

Data Rate:	0 - 120 Mb/sec for DIR-120 0 - 240 Mb/sec for DIR-240
Data Capacity:	125 GB / L-Cassette, 38 GB / S-Cassette
Recording Time: (at 240 Mbit/sec)	69 Minutes / L-Cassette, and 21 Minutes / S-Cassette
Interfaces:	8 bit Parallel, Ultra SCSI (SCSI-3)
Time Code:	IRIG B Input / Output, Search

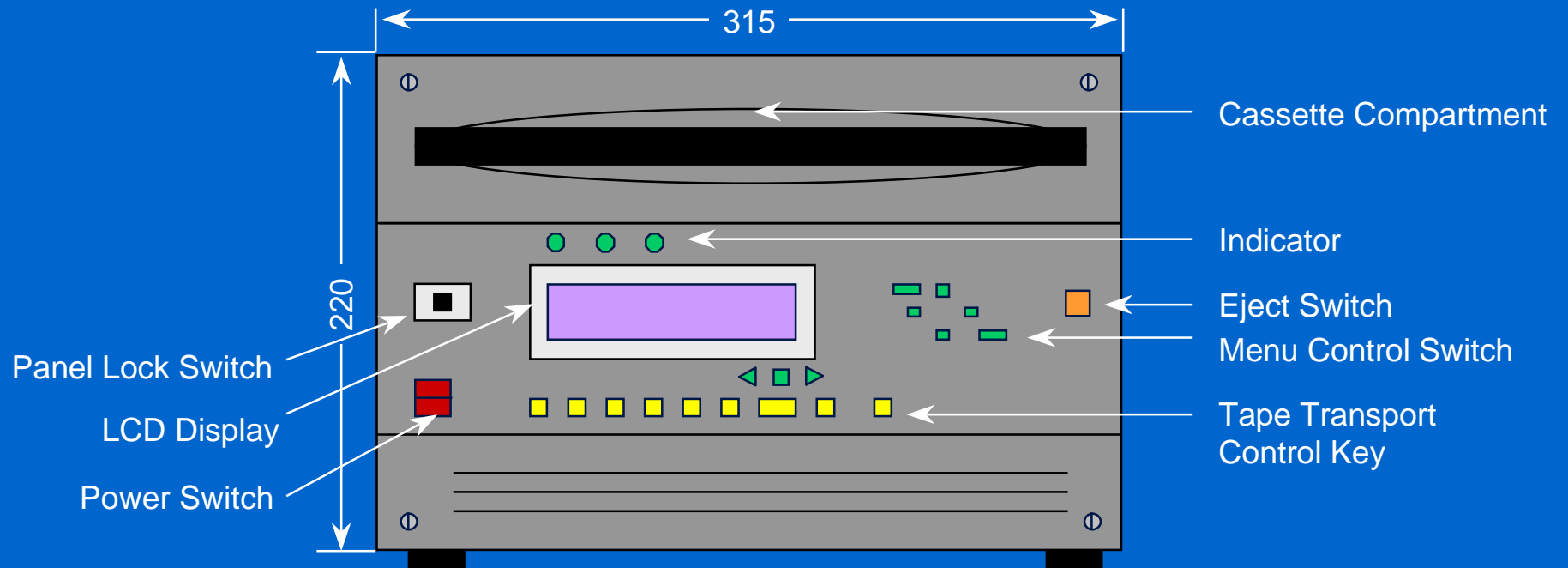
DIR-120/240

Compatible with DTF-2



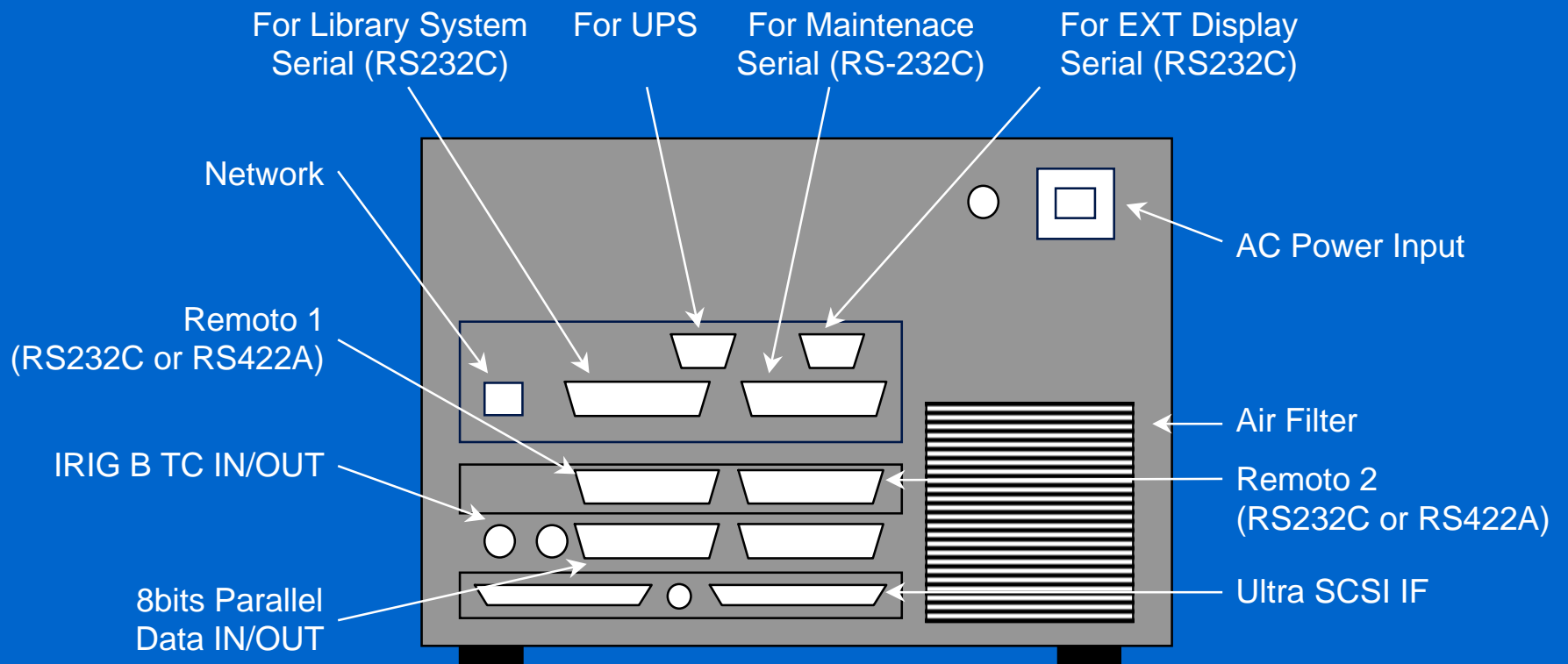
DIR-120/240

Front View



DIR- 120/240

Rear View



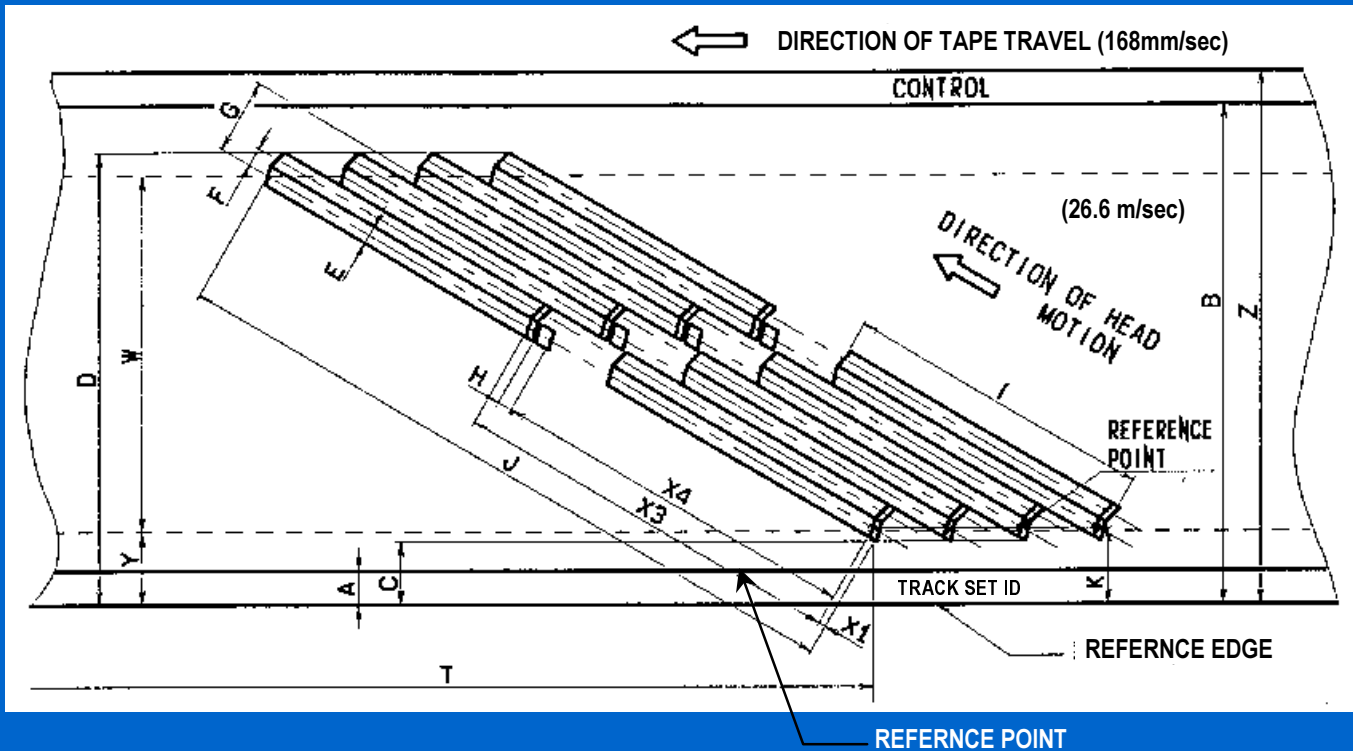
DIR-120/240

Data Reliability

- Dust Protection for Cassette
 - Anti Static Cassette Shell
- Clean Air in Unit
 - Well Designed Air Flow and Air Filter
- Tape Cleaning System
 - Ruby Blade
- Head Cleaning System
 - Head Cleaning Roller

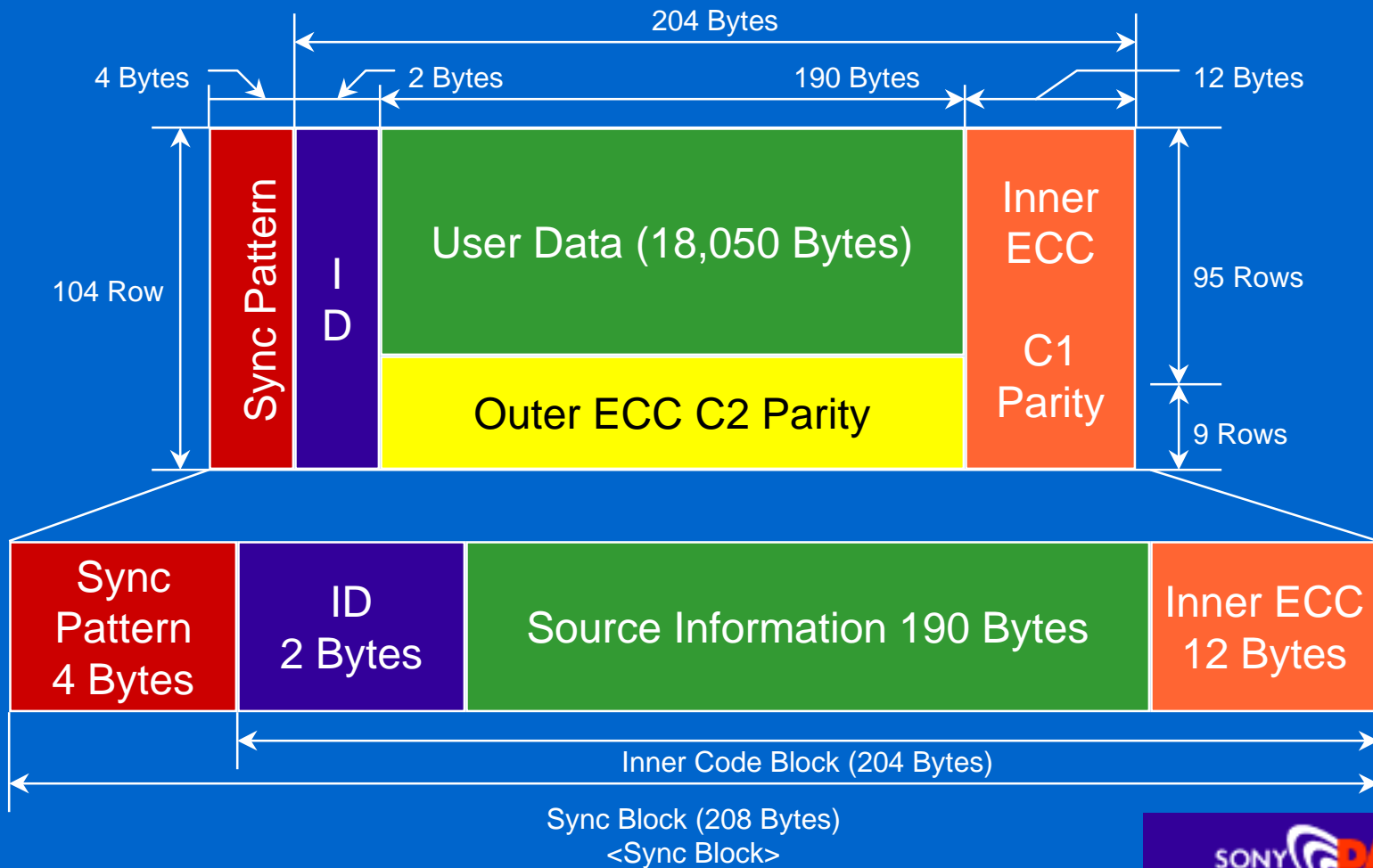
DIR-120/240 Tape Foot Print

Track Pitch = $16\mu\text{m}$
 One Track Set ID = 4 Helical Tracks
 Recording wavelength = $0.63\mu\text{m}$

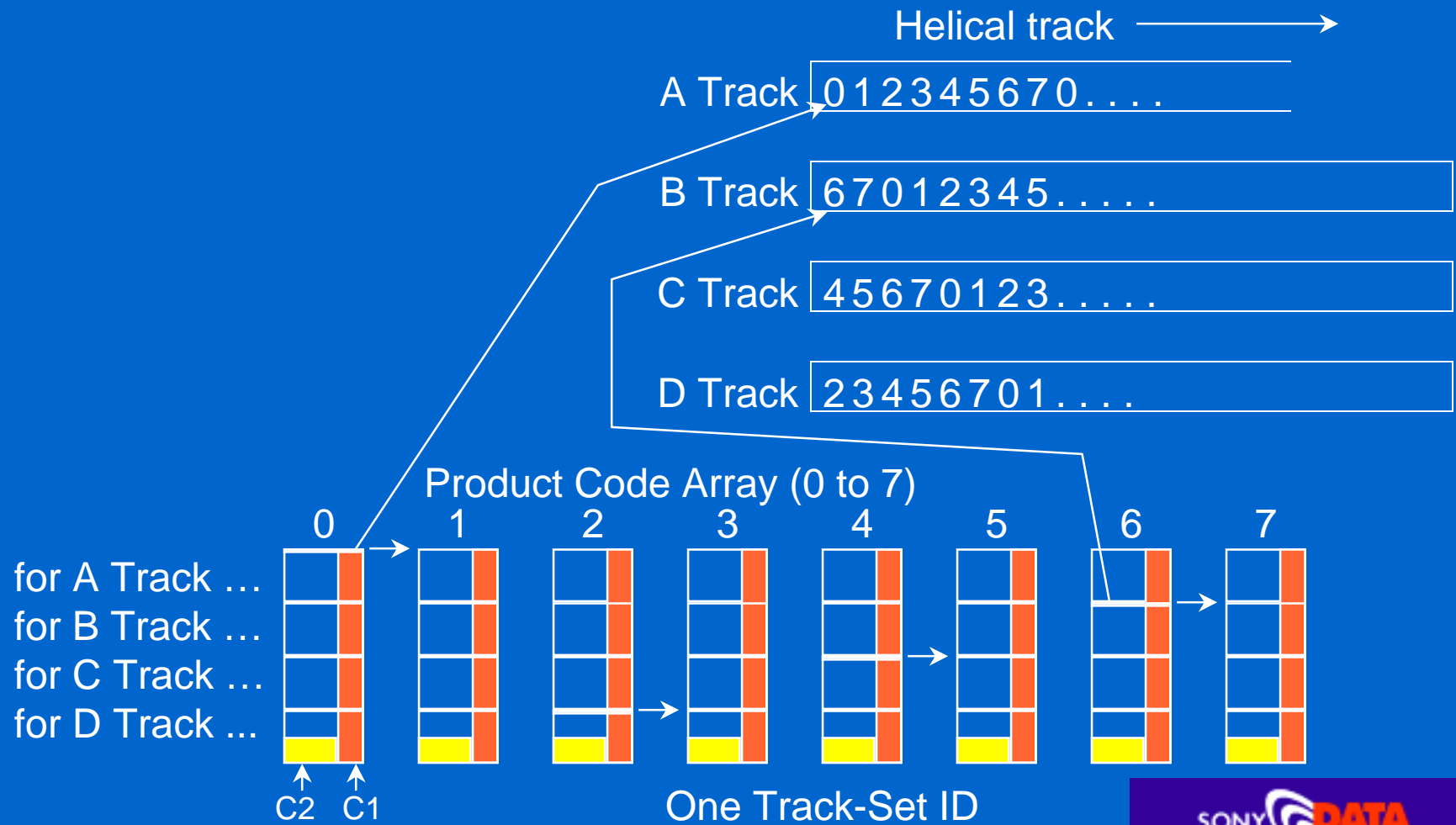


A	TIMECODE TRACK UPPER EDGE
B	CONTROL TRACK LOWER EDGE
C	HERICAL TRACK LOWER EDGE
D	HERICAL TRACK UPPER EDGE
E	TRACK WIDTH
F	chA-chB TRACK PITCH
G	chA-chE TRACK PITCH
H	TRACKING DATA AREA LENGTH
I	DATA SECTOR LENGTH
J	HELICAL TRACK TOTAL LENGTH
K	REFERENCE POINT HEIGHT
T	CTL/TC SIGNAL REC POSITION
W	PROGRAM AREA EFFECTIVE WIDTH
X1	START OF HELICAL TRACK
X2	START OF SECTOR 1
X3	START OF SECTOR 2
X4	START OF TRACKING DATA AREA
Y	LOWER LIMIT OF W
Z	TAPE WIDTH

DIR-120/240 ECC Product Code Array

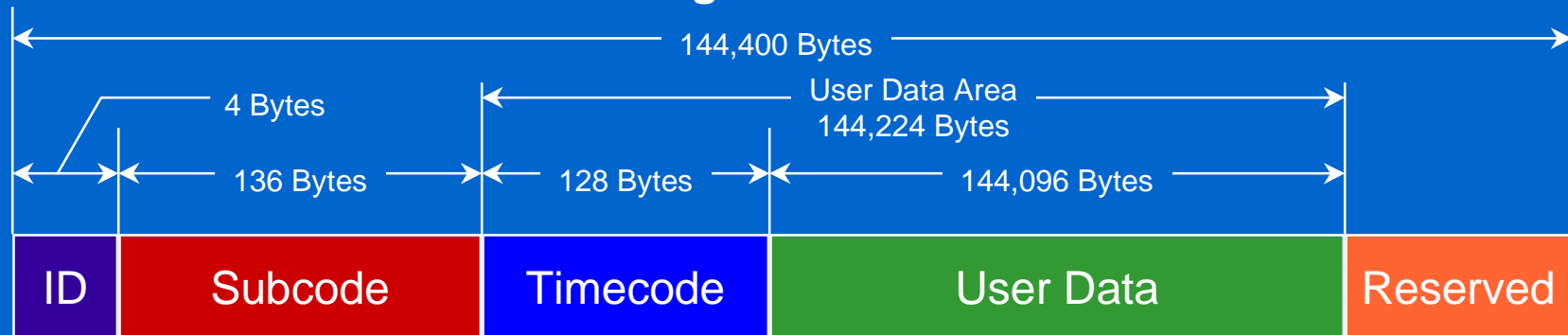


Track Interleave

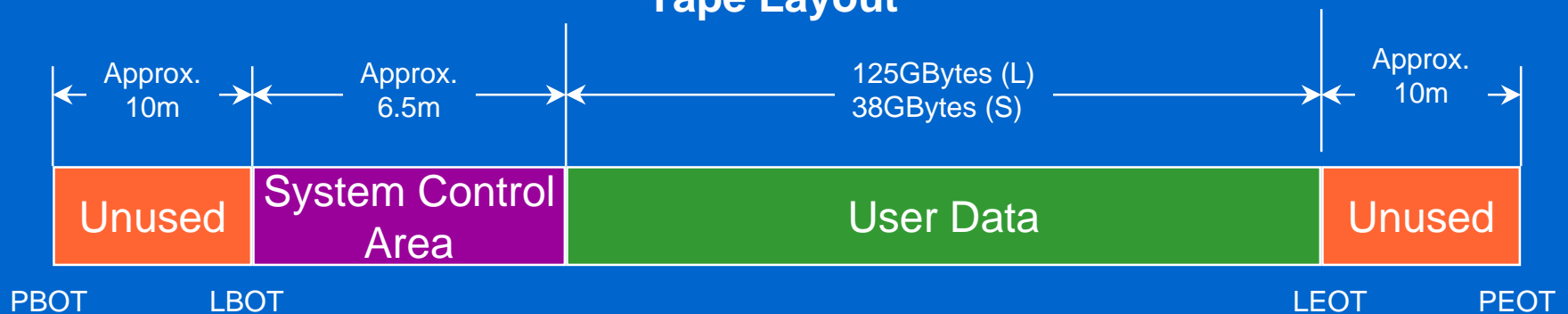


DIR-120/240 Logical Tape Format

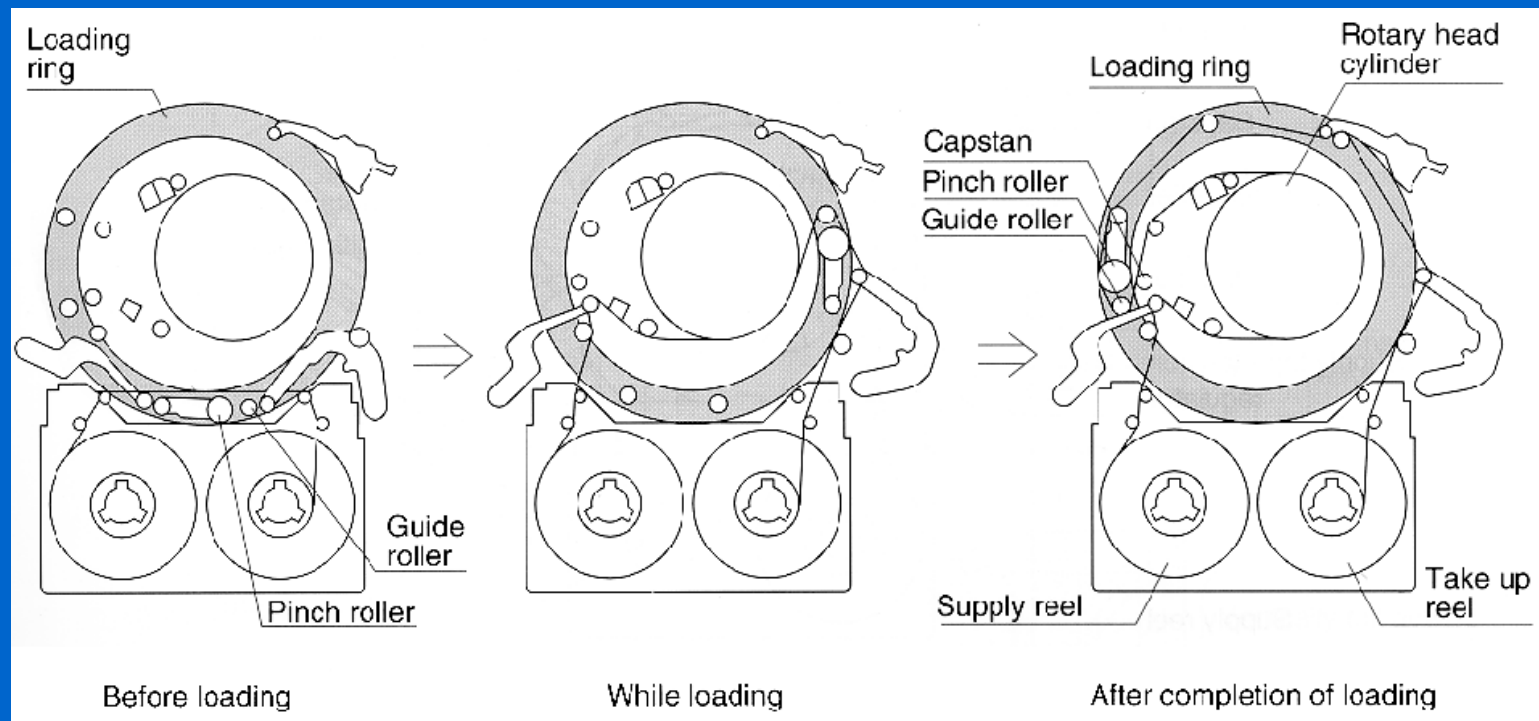
The Logical Track Set



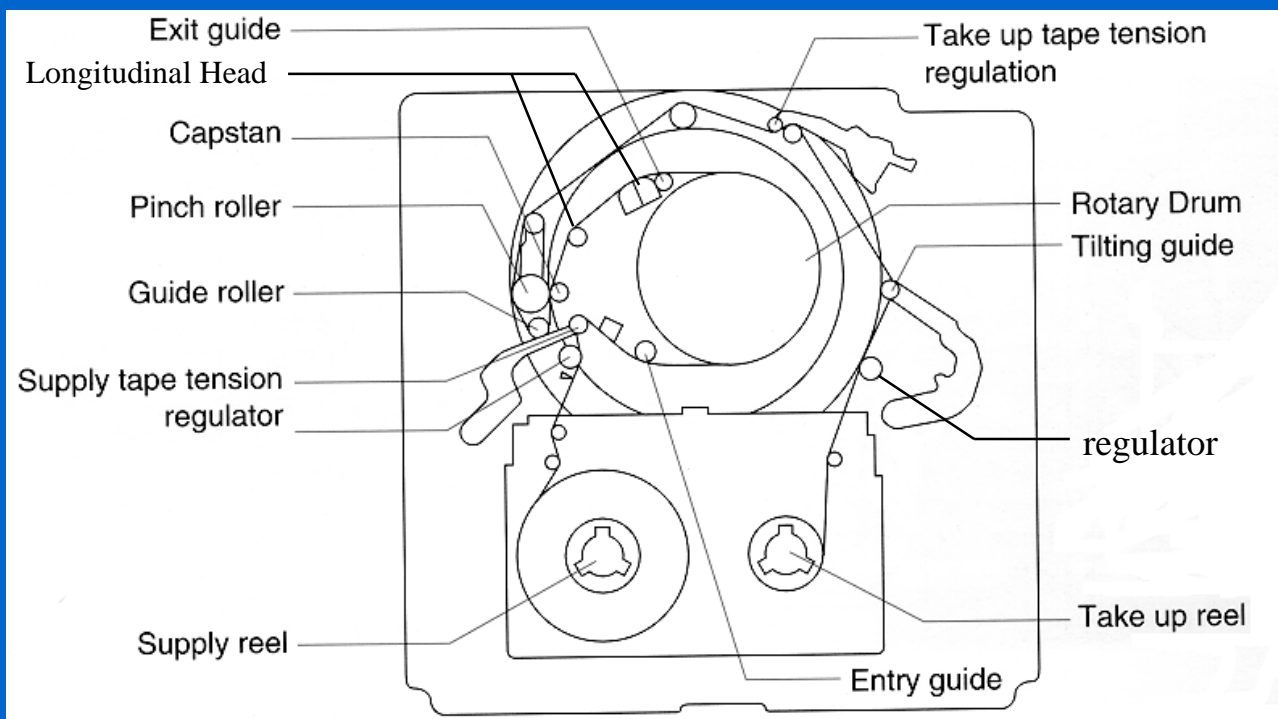
Tape Layout



DIR-120/240 Loading Mechanism



DIR-120/240 Tape Transport System



DIR-120/240 Specification (1)

(Tentative)

Recording Capacity	125 GB / L-Cassette 38 GB / S-Cassette
Recording Format / Media	12.65 mm Helical Scan Metal Tape, 14 μ m.
DIR-240 Data Rate	8 bit Parallel: 0 ~ 240 Mbits/sec SCSI: 40 MB/sec (burst), 30 MB/sec (sustained)
DIR-120 Data Rate	8 bit parallel: 0 ~ 120 Mbits/sec SCSI: 40 MB/sec (burst), 15 MB/sec (sustained)
Error Rate	1 x 10 E-10
Search Speed	892 MB/sec
Tape Rewind Time	180 sec or less (L-Cassette)

DIR-120/240 Specification (2)

(Tentative)

Recording Time (240 Mbit/sec)	69 minutes L-Cassette 21 minutes S-Cassette
Dimension (W/H/D)	12.4 x 8.7 x 19.1 inches
Weight	55 lbs.
Power Requirements	AC 100 ~ 240V. 50/60/400 Hz.
Power Consumption	300 VA
Operating Temperature	+5 ~ 40°C (41°F ~ 104°F)
Operating Humidity	20 ~ 80%

DIR-120/240 Specification (3)

(Tentative)

Item		Contents	Reference
Data	8 bits parallel I/O	8 bits parallel ECL differential I/O	Dsub 25P
	SCSI IF	Ultra-1 wide differential SCSI (SCSI-3)	Half pitch pin type x 2
Time Code		Generator/Reader	Built-in
		Time code search	Available via control command
		Time code I/O	IRIG-B (AC code)
Remote	8 bits parallel I/O	Remote1 RS422A or RS232C	(Dsub 25P)
		Remote2 RS422A or RS232C	(Dsub 25P)
	IF for maintenance manufacturing	UPS connection	(Dsub 9 P)
		EXT display RS232C	(Dsub 9 P)
		Maintenance (DIAG) RS232C	(Dsub 25P)
		Library system RS232C	(Dsub 25P)
		Network	