

Video Parameters

Parameter	Units	Value
Horizontal Pixels	#	1024
Vertical Pixels	#	1024
Total Pixels per frame	#	
Bits per pixel	-	16
Frames/second	1/s	30
Bits/sec (uncompressed)	b/s	
Bytes/sec (8 bytes/bit)	B/s	
Compression Factor	-	20
Bytes/sec (compressed)	Bytes/sec	
	Mbytes/sec	
Length of video	s	7200
Capacity	Bytes	
	Gbytes	

Tape Drive Parameters

Parameter	Units	Value
Medium Total Thickness	m	1.0E-05
Inner Spool Radius	m	1.0E-02
Outer Spool Radius	m	2.5E-02
Usable Tape Length	m	
Usable Tape Width	m	0.006
Tape Area	m ²	
Minimum Tape Areal Density	b/m ²	
	Mbits/in ²	
PW50	m	6.0E-07
	nm	600
Bits/PW50	#	2
Linear Bit Density	fc/m	
	fcm	
	KBPI	
Track Density	t/m	
	t/mm	
	tpi	
Track Width	m	
	um	
Tape Speed	m/s	2
Data rate single channel	B/s	
	MB/s	
Minimum # heads for video data rate	#	
	X	
Data Rate Multiplier	-	3
	=	
Actual number of heads for high speed dumps and retrieve	#	
System Data Rate	B/s	
	MB/s	
Search Speed	m/s	5
End to End Time	s	

Disk Drive Parameters

Parameter	Units	Value
Disk Drive Capacities	Bytes	
	bits	
Disk Sides	#	8
Track Width	m	2.E-06
Disk Inner Radius	m	0.01
Disk Outer Radius	m	0.04
Disk Usable Area	m ²	
Disk Areal Density	bits/m ²	
	Gbits/in²	
Disk RPM	rpm	10000
Disk # track	#	15000
Disk Track Density	t/m	
	tpi	
Linear Density (avg)	fc/m	
	fcmm	
	KBPI	
Data Rate (avg)	B/s	
	MB/s	