

LTS-80 Datasheet

1. Specifications

Basic specifications

Temperature	10°C to 35°C
Humidity	20% to 80% (no condensation)
Power	AC 100 V to 240 V \pm 10%, 50/60 Hz
Consumption	AC 100 V to 120 V: 130 VA (128 W) AC 220 V to 240 V: 154 VA (127 W)
Dimensions	212 (W) x 116 (H) x 422.5 (D) mm
Weight	8 kg
Consumables (at 24-hour operation)	Cooling fan: Replace every 3 years. Power: Replace every 5 years. Battery: Replace every 5 years. (*) Hard disk: Replace every 5 years.

* Yearly battery replacement is recommended when unit is stored without powering on for long periods

Technical specifications

Removable Storage	LTO-7/ LTO-8 (File system: IBM LTFS)
Internal Storage	8TB HDD
Interfaces	
USB	USB3.0 series A connector x 4 (front x 2, rear x 2)
LAN1/2	100BASE-TX/1000BASE-T, RJ-45 x 2
To External Drive	Mini-SAS HD(SFF-8644) Connector x 1 To connect to an LTO-EU7/ LTO-EU8, an external LTO-7 drive made by IBM or an auto loader made by IBM. (LTS-TSC optional software is required to connect to an auto loader.)
VGA	15-pin D-Sub (female) x 1
IPMI	Not used

LTO-7 Basic Performance

Cartridge Size	105 (W) x 22 (H) x 102 (D) mm
Capacity	Approx. 6.0 TB (data area: 5732 GB / 5338 GiB)
Recording capacity	The followings, values excluding ancillary data and proxy video files, are theoretical. Actual values may differ depending on LTO tape and head conditions.
CBR/4:2:2/422P@HL	Approx. 190 hours (50 Mbps, HD)
VBR/4:2:0/MP@HL	Approx. 285 hours (35 Mbps, HD)
Response	File system information acquisition time: under one minute in typical case. File body seek time: within three minutes (This will take more time in some cases.)

LTO-8 Basic Performance

Cartridge Size	105 (W) x 22 (H) x 102 (D) mm
Capacity	Approx. 12.0 TB (data area: 11711 GB / 10907 GiB)
Recording capacity	The followings, values excluding ancillary data and proxy video files, are theoretical. Actual values may differ depending on LTO tape and head conditions.
CBR/4:2:2/422P@HL	Approx. 380 hours (50 Mbps, HD)
VBR/4:2:0/MP@HL	Approx. 570 hours (35 Mbps, HD)
Response	File system information acquisition time: under one minute in typical case. File body seek time: within three minutes (This will take more time in some cases.)

H.264 file

Video	Resolution Low *	Compression format	H.264 Baseline Profile Level 2.1
		Resolution	HD: 424 x 240 SD: 320 x 240 (NTSC) 384 x 288 (PAL)
		Frame rate	NTSC family: 29.97fps, PAL family: 25 fps
		Bitrate	900 kbps
	Resolution Normal *	Compression format	H.264 Main Profile Level 3.2
		Resolution	HD: 1280 x 720
		Frame rate	NTSC: 29.97 fps, PAL: 25 fps
		Bitrate	2000 kbps
	Resolution High *	Compression format	H.264 High Profile Level 4.0
		Resolution	HD: 1920 x 1080
		Frame rate	NTSC: 29.97 fps, PAL: 25 fps
		Bitrate	4000 kbps
Audio	Resolution Low *	Compression format	AAC LC
		Number of channels	2 ch
		Sampling rate	48 kHz 16 bit
		Bitrate	96 kbps
	Resolution	Compression format	AAC LC

	Normal High *	Number of channels	2 ch
		Sampling rate	48 kHz 16 bit
		Bitrate	384 kbps
File format		Container format	MP4
		Bitrate	Auto-calculated from video and audio bitrates
Timecode		-Added to each frame as the Picture Timing SEI message in H.264 streams. -Timecode can be added to the video content by changing setting.	

* Changing the resolution requires the corresponding codec option. (LTS-SX, LTS-XAVC or LTS-XAVC-L)

Windows Media File

Video	Compression format	Windows Media Video V9
	Resolution	HD: 424 x 240 SD: 320 x 240 (NTSC) 384 x 288 (PAL)
	Frame rate	NTSC family: 29.97 fps, PAL family: 25 fps
	Bitrate	1,300 kbps
Audio	Compression format	Windows Media Audio V9
	Number of channels	2 ch
	Sampling rate	48 kHz
	Bitrate	192 kbps
File format	Container format	WMV (ASF)
	Bitrate	Auto-calculated from video and audio bitrates
Timecode		-Timecode can be added to the video content by changing setting.

Options

LTR-BWIN ^{(*)1}	LTR Browser (Windows Version)
LTR-BMAC ^{(*)1}	LTR Browser (Mac Version)
LTS-SX	MPEG-2 (OP-1a) Plugin
LTS-PAD	AVC-Intra/DVCPRO Plugin
LTS-PRS	ProRes422 Plugin
LTS-DNxHD	DNxHD Plugin
LTS-XAVC	XAVC Plugin
LTS-XAVC-L	XAVC Long Plugin
LTS-AVCHD	AVCHD Plugin
LTS-MAM ^{(*)3}	Media Asset Manager
LTS-TSC	LTO Auto-loader Plugin
LTS-MGS ^{(*)2}	LTS Migrator (Windows Version)
LTS-10GR ^{(*)2}	10GbE option (RJ45 model)

LTS-10GS ^{(*)2}	10GbE option (SFP+ model) 10GBASE-SR SFP+ Optical Transceiver
LTO-EU7/8 ^{(*)1}	LTO-7/8 external unit
^{(*)1} User Manual (PDF) is included in each CD-ROM. ^{(*)2} Download User Manual (PDF) from LTS-80 page on the FOR-A website. ^{(*)3} Download User Manual (PDF) from LTS-MAM page on the FOR-A website.	

Accessories

AC Cord, LTO Cleaning cartridge, RJ45 optical transceiver, SFP+ optical transceiver and Packing list

2. External Dimensions

(All dimensions in mm.)

