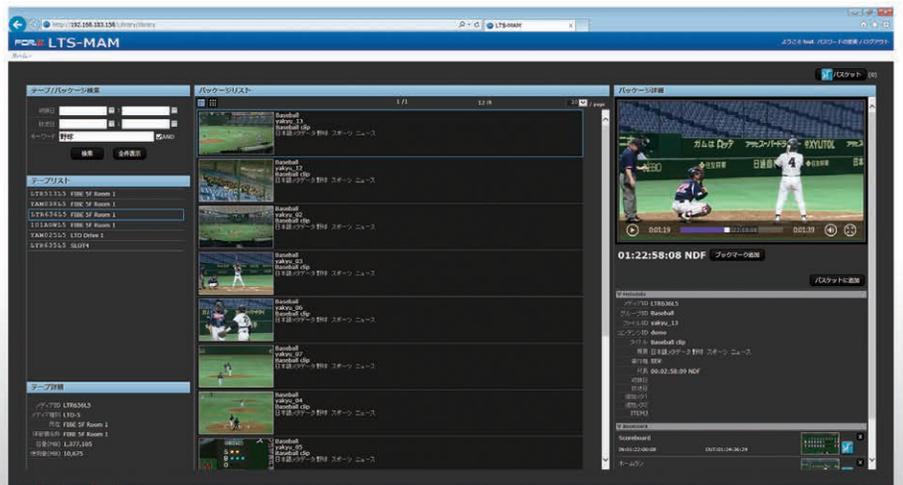


LTO Server
LTS-50/LTS-60

FOR.A[®]
INNOVATIONS IN VIDEO
and AUDIO TECHNOLOGY



LTO SERVER LTS-50/LTS-60



Protect Valuable Assets

The LTS-50 and LTS-60 are LTFs-based media archiving servers for LTO-5 and LTO-6 drives, respectively. Reading and writing of files on LTO tape is possible via FTP from Windows or OS X computers. An ideal small-scale archiving and backup solution.



Main Applications

- Backup/archiving of nonlinear project data
- Backup/archiving of editing material or files used in broadcast production, exchanging data on LTO tapes
- Archiving of mixed material (video and data files), and other applications

Comprehensive file backup/archiving

The LTS-50/60 functions as an FTP server on the network, enabling Windows or OS X users to read or write any files on the unit's LTO tape directly via FTP. Back up project files, archive video files, or perform other tasks without file type or format restrictions.

Convenient MXF file archiving

Video files in standard MXF formats (such as MPEG-2, DVCPRO, or AVC-Intra) can be tagged before archiving, enabling the LTR series video archiving recorder compatibility when stored on LTO tape.

Thumbnails and proxy videos can be generated automatically from the MXF files being archived, using the optional software. And with a new "partial retrieval" feature, individual MXF files on the LTO tape can be retrieved for use as separate MXF files.

Complete data archiving to LTO

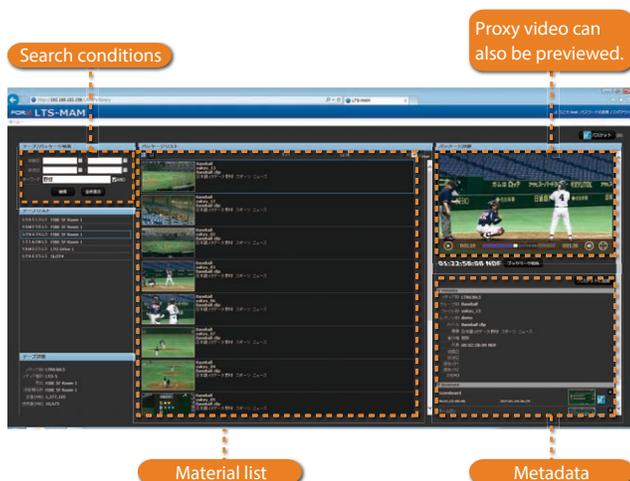
Archiving equipment that relies on databases or other internal file information tends to lock users into particular systems and limit LTO tape portability, making the system less versatile.

LTO server material file management software

Compact LTFs Archiving Box

LTS-MAM

LTS-MAM is optional software that runs on the LTS-50 or LTS-60. It enables intuitive, browser-based*2 adding, searching, re-purposing, and management of assets from devices on the network. Also enables batch archiving of folders. *2 IE 10, Google Chrome, Safari



Archiving and retrieval between storage and LTO tapes

Material files can be archived*3 and retrieved between shared storage on a LAN and an LTO tape inserted into the LTS-50/60. This provides seamless storage and re-purposing of non-linear editing materials and completed masters.

*3 Supports auto generation of proxy video for XDCAM-compatible files or AVC-Intra/DVCPRO MXF files using the optional software.

Material management

LTO tapes that have been recorded using the LTR series video archiving recorder are automatically registered to the LTS-MAM database simply by inserting them into the LTS-50/60. When an LTO tape is registered, thumbnails, proxy video (.mp4 file), metadata and other information are saved in the LTS-MAM

Options

MPEG-2 option

An option for expanded functionality with MPEG-2 based MXF files.

Supported file formats: MXF (OP-1a) MPEG-2 I-GOP/Long GOP (SMPTE ST 386, RDD 9) Extra features: Generation of thumbnail and proxy video (H.264 or WMV), Partial retrieval

AVC-Intra/DVCPRO option

An option for expanded functionality with AVC-Intra/DVCPRO based MXF files.

Supported file formats: MXF (OP-Atom, OP-1a) DVCPRO 25/50/HD, AVC-Intra 50/100

Extra features: Generation of thumbnail and proxy video (H.264 or WMV), Partial retrieval (OP-1a/OP-Atom output), OP-Atom to OP-1a conversion

Dual-drive copying option

Duplication of LTO tapes in LTF5 format, using the built-in drive and an external drive*7.

*7 Sold separately

Remote control SDK

Please ask FOR-A about remote control API.

LTR Browser

Enables these operations from a computer: Browsing lists of MXF files on an LTO tape, with thumbnails and metadata.

Windows and OS X versions available.

Extra features: Metadata searching,

Adding/removing MXF files,

Viewing/editing metadata, Proxy

playback, Partial retrieval



Specifications

| Model | LTS-50 | LTS-60 |
|---|---|---|
| Recording format | LTO-5*8, LTF5 2.0 format | LTO-6/LTO-5*8, LTF5 2.0 format |
| Server functions | Via FTP: Direct reading/writing of files on the LTO tape Via HTTP (Browser): Remote LTO tape operations (mount, eject, or format), metadata input, and settings adjustment | |
| Interfaces | USB: 2.0 (High Speed) Series A connector × 4 | USB: 2.0 (High Speed) Series A connector × 2 USB: 3.0 (Super Speed) Series A connector × 2 PS/2 (Keyboard/Mouse) × 1 RS-232C × 1 |
| | LAN1/2: 100 Base-TX/1000 Base-T, RJ-45 × 2 | |
| | To External Drive: mini-SAS connector × 1 (for external LTO-6/LTO-5 drive) | |
| | DVI-I: for maintenance | |
| Temperature / Humidity | 10°C - 35°C / 20% - 80% (no condensation) | |
| Power / Consumption | 100 V AC - 240 V AC, 50/60 Hz / Approx. 130 VA (130 W) at 100 V AC - 120V AC, Approx. 132 VA (124 W) at 220 V AC - 240V AC | |
| Dimensions / Weight | 212 (W) × 116 (H) × 421.2 (D) mm / Approx. 8.5 kg | |
| Accessories | Operation manual, AC Cord (comes with an anti-disconnect fixture), LTO cleaning tape (1) | |
| Consumables (if used 24 hours a day at room temperature) | Cooling fan: Replace approx. every 3 years. Power unit: Replace approx. every 5 years. Battery: Replace approx. every 5 years. Hard disk drive: Replace approx. every 5 years. | |
| Options | LTR Browser / MPEG-2 option / AVC-Intra/DVCPRO option / Dual-drive copying option / Remote control SDK / LTS-TSC (LTO autoloader control software) / LTS-MAM (material management software) / Annual support | |

*8 LTO WORM is not available.

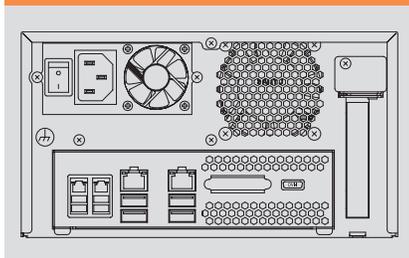
LTO Basic Performance

| | LTO-5 | LTO-6 |
|--|--|--|
| Cartridge Size | 105 (W) × 22 (H) × 102 (D) mm | |
| Capacity | Approx. 1.5 TB (data area: 1,425 GB / 1,327 GiB) | Approx. 2.5 TB (data area: 2,408 GB / 2,242 GiB) |
| Recording capacity (theoretical value)*9 | MPEG-2: 50 Mbps, HD: Approx. 52 hours | MPEG-2: 50 Mbps, HD: Approx. 80 hours |
| Response*10 | File system information acquisition time: under 1 minute in typical case (depends on number of files on LTO tape) File body seek time: within 3 minutes in typical case | |

*9 Without proxy video and metadata.

*10 Response may vary depending on the LTO tape or LTO drive condition.

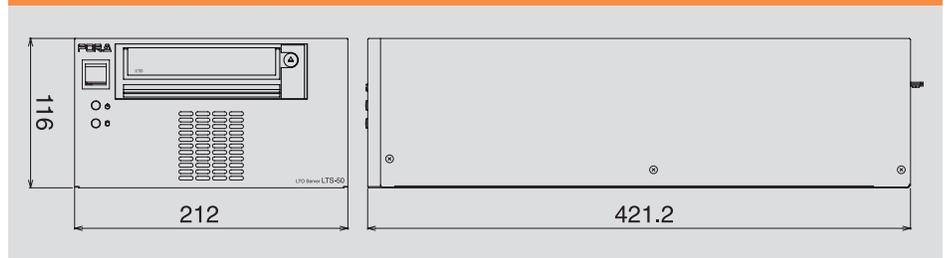
Rear Panel



LTO is a trademark of HP, IBM and Quantum.

AVC-Intra and DVCPRO are trademarks of Panasonic Corporation.

External Dimensions



FOR-A COMPANY LIMITED

Head Office: 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan

FOR-A Corporation of America: 11155 Knott Ave., Suite G&H, Cypress, CA 90630, U.S.A.

FOR-A Corporation of America East Coast Office: 2 Executive Drive, Suite 670, Fort Lee Executive Park, Fort Lee NJ 07024, U.S.A.

FOR-A Corporation of America Distribution & Service Center: 2400 N.E. Waldo Road, Gainesville, FL 32609, U.S.A.

FOR-A Corporation of America Miami Office: 5200 Blue Lagoon Drive, Suite 760, Miami, FL 33126, U.S.A.

FOR-A Corporation of Canada: 346A Queen Street West, Toronto, Ontario M5V 2A2, CANADA

FOR-A Europe S.r.l.: Via Volturmo, 37, 20861 Brugherio MB, Italy

FOR-A UK Limited: Trident Court, 1 Oakcroft Road, Chessington, KT9 1BD, UK

FOR-A Italia S.r.l.: Via Volturmo, 37, 20861, Brugherio MB, Italy

FOR-A Corporation of Korea: 1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 150-103, Korea

FOR-A China Limited: 708B Huateng Building, No. 302, 3 District, Jinsong, Chaoyang, Beijing 100021, China

FOR-A Middle East-Africa Office: Jebel Ali Free Zone, LOB-16, Office 619, P.O. Box 261914, Dubai, U.A.E.

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URL: <http://www.for-a.com/>

Tel : +81 (0)3-3446-3936 Fax : +81 (0)3-3446-1470

Tel : +1-714-894-3311 Fax: +1-714-894-5399

Tel : +1-201-944-1120 Fax: +1-201-944-1132

Tel : +1-352-371-1505 Fax: +1-352-378-5320

Tel : +1-305-931-1700 Fax: +1-305-264-7890

Tel : +1-416-977-0343 Fax: +1-416-977-0657

Tel : +39-039-879-778 Fax: +39-039-878-140

Tel : +44 (0)20-3044-2935 Fax: +44(0)20-3044-2936

Tel : +39-039-881-086/103 Fax: +39-039-878-140

Tel : +82 (0)2-2637-0761 Fax: +82 (0)2-2637-0760

Tel : +86 (0)10-8721-6023 Fax: +86 (0)10-8721-6033

Tel : +971 4 887 6712 Fax: +971 4 887 6713