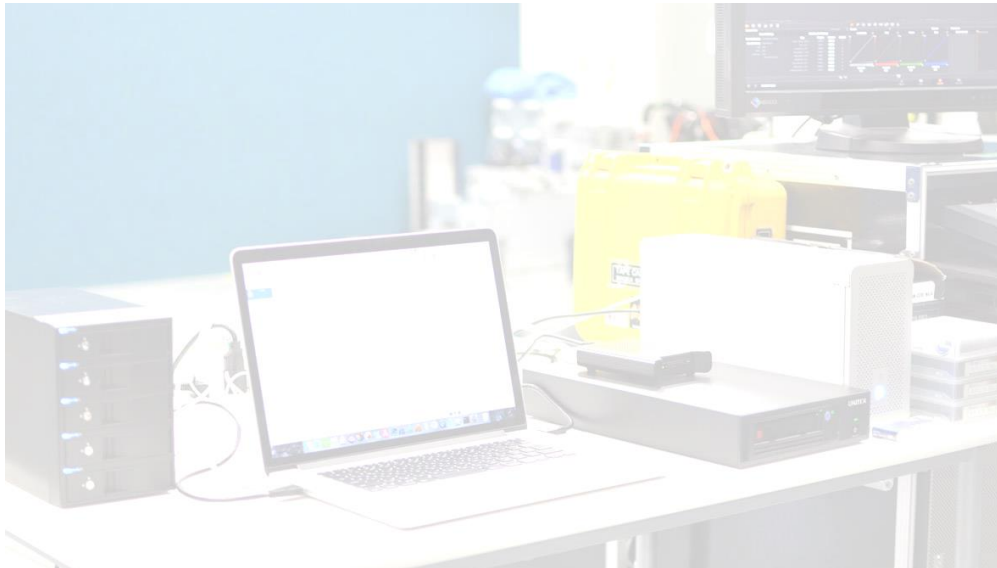


How to use with software LTFS/Archive/Backup



How to use on each OS

Enables flexible use on each OS

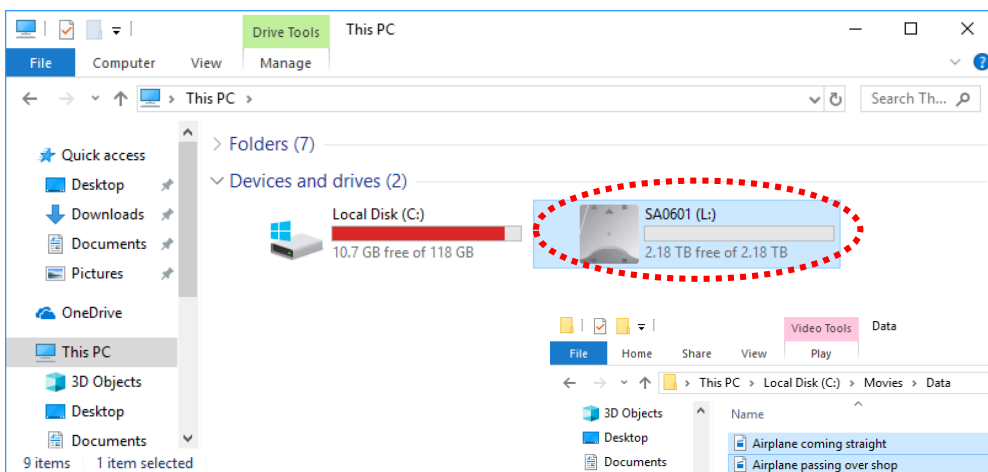
How to use	Windows	Mac	Linux
Backup/Archive software	○	○	○
OS standard command (tar / dd / mt ,etc.)	—	—	○
Use in LTFS format	○	○	○

■ What is LTFS format?

- **LTFS is a format which appeared from Generation 5 (LTO-5 in 2009), enables direct access to data in the tape as a file system**
- **Supports various OS such as Windows, Mac, Linux**
- **LTFS format has become international standardization as ISO / IEC 20919: 2016, making it the de facto standard**
- **Standardization enables read/write even in other company's LTFS environment**

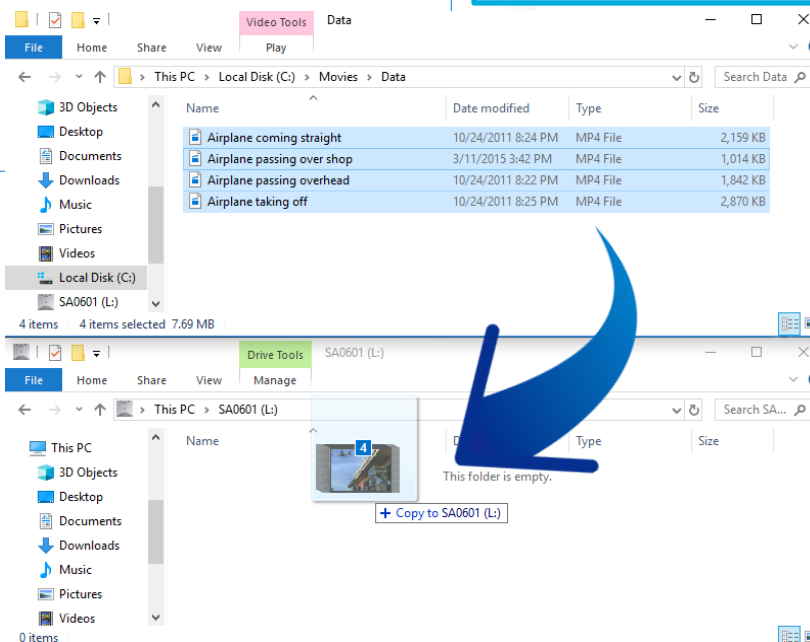
Use in LTFS

Enables use in the same way as the external HDD by just installing LTFS software



Example) Windows

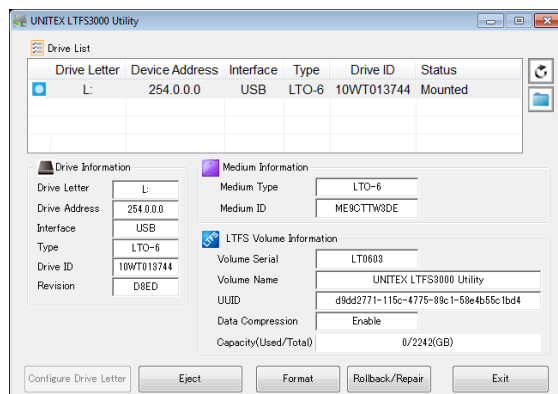
A drive letter is displayed on the Explorer, enables data input/output by drag and drop as with the external HDD



UNITEX LTFS software

UNITEX LTFS software line-up

UNITEX LTFS3000



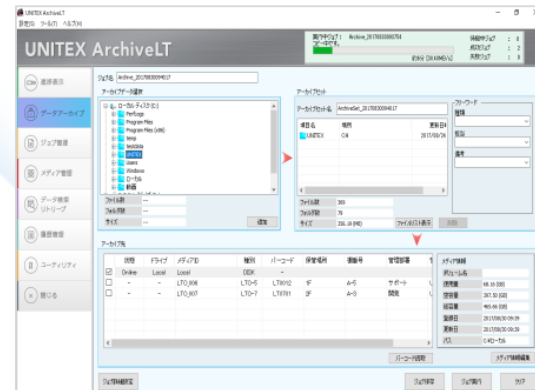
- ◆ Enables all operations/management such as media format **from one GUI window**
- ◆ Enables **simultaneous operation** of multiple drives
- ◆ Copy data with **drag & drop** operation by allocating a drive letter
- ◆ LTFS3000 is **included in each LTO drive**
- ◆ Free updated software can be downloaded from UNITEX Web site

UNITEX FASTapeLT



- ◆ **Sequential job** execution with simple operation (Max. 100)
- ◆ **Simultaneous copy** to maximum **4 media**
- ◆ Confirm integrity of copy data by **automatic verify function**
- ◆ **LTO duplication** function
- ◆ **Job history** management
- ◆ Optional software

UNITEX ArchiveLT



- ◆ **Simultaneous archive** to maximum **4 archive destinations**
- ◆ **High speed archive** by UNITEX unique data transfer algorithm
- ◆ Enables **offline search** of the archived data with file name and **metadata**
- ◆ **Retrieve** the archived data
- ◆ **Consistency check** for the archived data with using hash value
- ◆ **Import/Export** management data
- ◆ Optional software

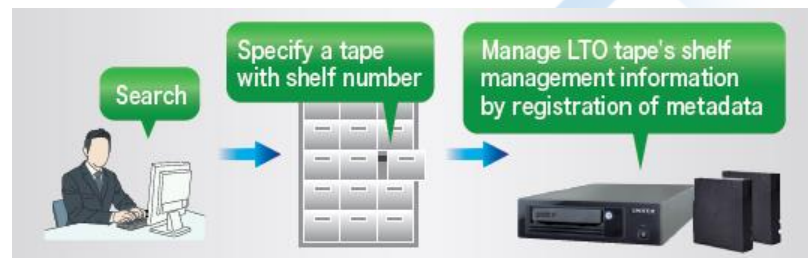
Introduction of UNITEX Archive software

UNITEX ArchiveLT

- **High speed archive & retrieve / Verify**
 - High speed data transfer by UNITEX unique data transfer algorithm
 - Supports disk storage (HDD, NAS, etc.)
 - Enables simultaneous archive of multiple devices
 - Automatic verify and consistency check

- **Reliable Job history management function**
 - Job execution result is stored automatically and it can be checked in Job history management window
 - Record job execution result, list of processing data, hash value, etc.
 - Enables output of file as a report file

- **Off-line management for the archive data**
 - Enables off-line search from archive data management information
 - Even if there is no actual media, you can check the stored data and search the media in which the data is stored
 - Enables use of metadata which you can add to the archived data and media



Supported Backup software

Supported Backup software

- Arcserve Backup (Arcserve)
- Backup Exec (VERITAS)
- Acronis Backup (Acronis)
- NetVault Backup (Quest)

arcserve®

VERITAS™

Acronis

Quest



Migration from RDX to LTO tape

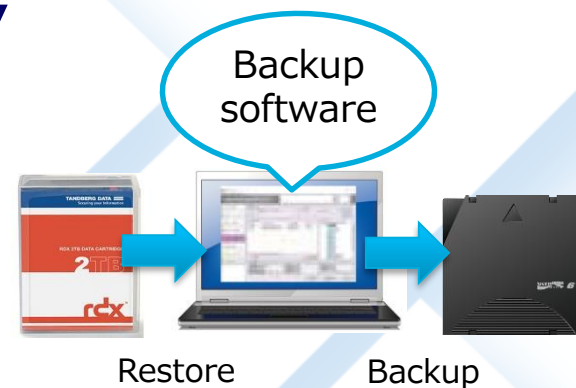
When backed up with a simple copy,

- Copy data from RDX used for backup from Explorer etc. to LTO tape



When backed up with backup software etc.,

- Restore with backup software temporarily
- After that, backup to LTO tape



**UNITEX can offer media conversion service to
do media conversion work on behalf of customers**

Difference between Backup and Archive

Item	Backup	Archive
Purpose	Data loss, Restoration when some failure/breakdown occur	Long-term storage of large amounts of data, Reuse
Type of data	Hot data, warm data	Cold data
Storage method	Overwritten and changed	Not overwritten and changed
Frequency of use	Only on failure/breakdown	When reuse is required
Accessibility	Need to restore	Enables access of file in unit without restoration
Storage capacity	2-3 times storage capacity of backup target	Infinite
Main use	<ul style="list-style-type: none"> • Data protection of system area in key server, etc. • Protection of database, etc. 	<ul style="list-style-type: none"> • Storage of video data edited/broadcasted and surveillance camera data, etc. • Storage of medical record data of patients

Main features of each software (1)

Backup software

- Regular implementation of backup for the specific area (system area, etc.)
- Regular implementation is required so that the difference between data when backed up and data when system failure occur does not become large
- Enables efficient storage by data incremental or differential backup
- Enables storage of online system area
- Enables prompt data restoration when failure occur



Main features of each software (2)

Archive software

- Execute on demand when you want to archive
- Intuitive operability for frequent use
- Enables input of metadata for easy reuse (search and retrieve)
- Search without media by off-line management function
- Enables direct access to data without restoration and archive software

