

USB LTO-6 is utilized at shooting locations



In both domestic and overseas,
movie location takes a long period of time.
USB LTO-6 has been utilized at the time of
transfer the shooting data.



Background of the introduction and system outline

IMAGICA Corporation is a professional group of video production from shooting to editing in various fields such as movies, television and TV commercial message. Usually, in cinematography department, RAW data which was filmed by a high-definition camera is stored to several external hard disk drive (HDD) and the HDDs are passed to post production department together after shooting is finished. In the case of overseas location, to send the video data at a certain stage before shooting is finished is more efficient. However, several issues were pointed. The concern is possibility of damage or lost of HDD during air transportation. Also, the cost will be increased because many HDDs should be prepared. Meanwhile, IMAGICA considered LTO media that has been focused, and adopted "LT60 USB" as a LTO drive which has high operability and compatibility by USB3.0 connection. At the movie shooting locations in Japan as well as overseas, the drive is utilized to exchange the data at higher frequency.

LTFS LT60 USB

Features

- 2.5TB (Native), 6.25TB(Compressed) capacity per LTO-6 cartridge
- High speed access at maximum 140MB/Sec (Native)
- It can be used with multiple systems by plug & play of USB
- Supports Linux/Windows/Mac OS
- Data exchange by different platform is possible

LTFS function (Linear Tape File System)

- Accomplished easy data access and management like files on the disk
- By popular file/folder operation as Drag-and-Drop, user can easily write and read LTO tape
- User can share the data between different OS

To such customers who

- Handles large capacity data at video/broadcast, surveillance camera and medical industry
 - Has multiple systems as Windows/Linux-/Mac OS in company or department
 - Proceeds a work to share large amounts of data with other companies
 - Considering the archive destination device of the video assets
 - Doing delivery of video-related post-production work
 - Considering the storage and delivery of CAD/CAM design
 - Considering the consolidated and centralized management of image processing and medical records in the medical field
- * Please ask UNITEX for more details

User's Profile

IMAGICA Corporation



Mr. Tomohito Kanamaru
Creative Production Unit
Shooting /Ingest G
Shooting Coordinate



Mr. Kazuki Maejima
Creative Production Unit
Shooting /Ingest G DIT

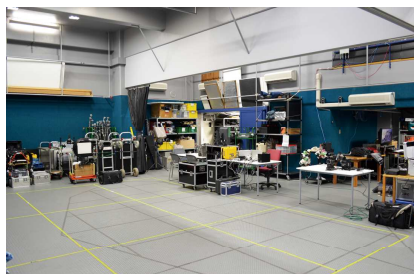


Ms. Kana Takahashi
Creative Production Unit
Shooting/Ingest G DM

Even important shooting data, it can copy easily and reliably.
Also, handling of transportation is easier than an external hard disk drive.
With less stress and cost, delivery of the data was done.

Considering the future operation, we need to gain the experiences of LTO

Hard Disk Drive (HDD) is often talked about excellent convenience and its weakness at the same time. Especially, in broadcast video industry, HDD is commonly used because of its convenience and speed. However, it has become a problem that HDD is not so strong during transportation and is not suitable for long term storage. Under such circumstance, IMAGICA attempted to try a combination of LTO and HDD. "We belong to the shooting department. All of shooting data has been copied to HDD as a master and a backup. Then we passed one of the copied data to editing team. When shooting data was increased, the number of the HDD should be increased, and the cost also increased accordingly. However, it is necessary when we consider about the problem on the devices. The problem is if the HDD for backup can be used 3years after storage. So, we have been thinking to change to LTO from HDD for backup. But we have not officially introduced LTO because transfer speed and data capacity of the LTO was slightly not enough. The meantime, we got opportunities of movie filming more than 1 month in overseas and one month in Japan. In the case of long-term shooting location, we need to send the large capacity of data little by little to editing team. If we will send the device by airfreight, LTO tape is much safer than HDD which has many risks during transportation. Also, we judged it might be a good idea to gain experiences in advance if we will use LTO instead of HDD for data exchange." Mr. Kanamaru of IMAGICA said.



Studio which a number of photographic equipment is stored. We depart on the location after collecting necessary equipment.

Cost reduction was accomplished by using both HDD and LTO. We feel relief in many ways.

Mr. Maeshima, who participated as a DIT (Digital Imaging Technician), told us about how to use the LTO at shooting locations. "This movie shooting takes more than one month in Philippines. If we send the video data in the middle of shooting each time, many HDD are required. Since shooting team changes the camera cards one after another this time, more HDD should be prepared. If we have prepared the equipment as usual, we think that the weight and cost of the HDD became very high. However, this time, we could use low cost, small and light LTO instead of HDD for backup. We managed the equipment well. As workflow, we took a copy of the video data from memory cards to several HDDs at shooting location and copied the data from HDD to LTO at hotel. Then, at each stages of the shooting, we sent the LTO tapes to the head office. We transferred the data to the LTO as copy & verify when we were sleeping. We only needed to check briefly when we woke up. Transportation period of the LTO cartridge by airfreight needs only few days. We utilize the LTO tape safely and without no concern that the data is destroyed or gone like HDD. Furthermore, this is specific issue of overseas, we got the custom check very strictly when we brought large number of HDDs. Officer asked us "Do you want to sell?". In the case of LTO cartridges, we have never been asked at custom. This eased our mind."

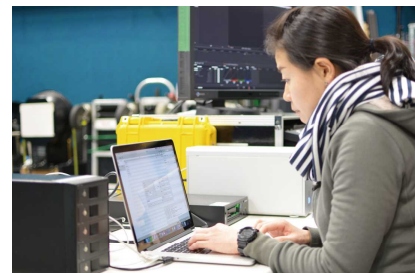


Equipment set used in this overseas location

LTO is light and compact. Good point is that the operation is very easy.

Ms. Takahashi who stayed at the shooting location as DM (Data Manager) for Japanese location said "I had been taken with two cameras called DRAGON and

EPIC made by RED. The amount of data is roughly 200GB per one day (maximum 400GB per day). So, I sent the data every 3-4 days to Post Production. Basically, the data in LTO was sent by courier in a duralumin case or in a Pelican Case. We were glad about its light weight and compact size. It was easy for us to pack because there was occasionally hand carried. Only one concern is operational noise is a little larger. Since recording department was located in the next room, we operated the LTO drive at day time by shifting the working time as much as possible. I heard that UNITEX made a new product which reduced the operation noise. So, I am expecting the new product. Even currently LTO drive is not popular in the movie industry, I believe the day which LTO will become popular in the movie industry will come soon."



"I could copy the data to LTO tape easily" Ms.Takahashi said.

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Contents of business

Shooting, Editing of video/sound of Movie/TV program/CM/PR etc, DCP(Digital Cinema Package), Content distribution/delivery service, Film development, Digital synthesis/VFX/CG, dubbing/subtitles/translation, various video technical service

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