Brief Equipment Description

MLU-100A : Memory Label Reader/Writer

PRODUCT DESCRIPTION

Tele-File is composed of a memory label and a reader/writer. It is the system by which Meta data such as shot mark data, recorded date, and cassette ID stored in a contact-less memory IC can be read/ written/re-written with non-contact. This system is suitable for the Meta data handling from acquisition to archiving.
The memory label is in the shape of a cassette label and was designed to fit 1/2" cassette tapes. MLU-100A Memory label reader/writer has an interface with a PC and can read/write the Meta data without the tape loaded -- allowing for more convenient data handling. It provides the RS-232C protocol and it is possible to make application software for the MLU-100A, which will expand the wide range of software applications, according to the required operation.

FEATURES	BENEFITS
Contact-less Memory IC	Realizes contact-less data communication between the memory label and the reader/writer, providing the memory label with high durability and assuring the data credibility.
Battery Free Operation	Contributes to the data credibility in the memory label.
Easy Operation via: Stand-alone Reader/Writer	The compact MLU-100A reads/writes the data in the memory label merely by getting the tape with the memory label closer to it. It has an interface with a PC: RS-232C or infrared data transfer, providing for more convenient Meta data handling from the PC keyboard.

SPECIFICATIONS

Carrier Frequency	13.56MHz
Transmission Rate	106k bps
Memory Capacity	1k Bytes
Transmission Range	Approx. 1.0 inch (2.54cm)
Size (W x H x D)	
MLU-100A	3.54 x 1.65 x 5.11 inches (90mm x 42mm x 130mm)
Power Consumption	
MLU-100A	Maximum: Approx. 3 W

Features and specifications subject to change without notice.

Tele-File Memory Label System

The Tele-File system is a non-contact data reading/writing system. It allows a huge number of 1/2-inch tape libraries to be effectively archived by using a 1/2-inch tape label with an IC memory. This IC memory allows a variety of data related to the tape's content or circumstances in which it was shot or used, to be stored for later reference. The Tele-File system is a very effective tool for more sophisticated editing operation and media asset management.

System Components

The Tele-File system consists of two components: A memory label and a memory label reader/writer.

Memory label

A memory label is used for the media of the Tele-File system. It is the same size as a standard 1/2-inch cassette label and can be attached to a cassette in the same way. The built-in IC memory allows users to store a maximum of 1 KB of information related to the tape as auxiliary data, including Shot Marks, scene numbers and other memos related to the material.

Non-Contact reading and writing

Data contained in a memory label can be read or written without contact with the Reader/Writer. By bringing the memory label within a distance of 20 mm to the center of the reader/writer, the label and its data can be recognized. The data can be read or written from a connected PC with the appropriate software installed. The data can even be read/written without taking the tape out of its cassette case. Exchanging data without contact means there is no need to worry about stains or wear of the label. It provides very high reliability in repetitive use.

Robustness

The memory label is very robust and the IC memory is protected so the operator may write memos on it as with other cassette labels. The storage capacity of a memory label is 1 KB and over 10,000 times of data re-writing has been tested.

Note: Repetition of attachment and de-attachment of a memory label is not guaranteed.

No power required

Adopting an EEPROM (Electrically Erasable Programmable ROM), the memory label does not require any power (to maintain the stored data). The Reader/Writer supplies the required power to the memory label through its antenna when the data must be read or overwritten.

Memory label Reader/Writer

As its name suggests, the Reader/Writer is the unit that reads and writes data from/to a memory label. Moreover, it provides these functions without contact with the memory label.

Reading and writing data

The interface for reading or writing data contained in the memory label is provided on a PC connected to the Reader/Writer. You can access a variety of data. i.e. Shot Marks, scene numbers, camera crew names, scripts, comments and cassette numbers without playing back video tapes.

Adoption to HDCAM 24P models

The Memory label Reader/Writer function is incorporated in the HDCAM 24P models: the HDW-F900 camcorder and the HDW-F500 VTR. The HDW-F900 writes shot data such as recording date, Shot Marks, camera ID etc. to the memory label attached to the cassette. The HDW-F500 then reads and displays the shot data on the memory label and can write additional data such as scene numbers and comments.