

SONY®

HANDY READER/WRITER

MLU-200



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 **Tele-File**


MEMORY STICK™

OPERATION MANUAL Japanese/English

1st Edition(Revised 1)

Serial No. 10001 and Higher(SYV)

For the customers in U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

If you have any questions about this product, you may call : Sony's Business Information Center (BIC) at 1-800-686-SONY(7669) or write to : Sony Customer Information Services Center 6900-29 Daniels Parkway, PMB 330 Fort Myers, Florida 33912

Declaration of Conformity

Trade Name :	SONY
Model :	MLU-200
Responsible Party :	Sony Electronics Inc.
Address :	680 Kinderkamack Road, Oradell NJ 07649 U.S.A.
Telephone Number :	201-930-6972

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For the customers in Canada

This device complies with RSS-210 of Industry Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Pour les clients au Canada

Cet appareil satisfait à la norme CNR-210 de l'Industrie Canada.

Son utilisation est soumise aux deux conditions suivantes: (1) cet appareil ne peut provoquer d'interférences et (2) cet appareil doit accepter toutes les interférences, y compris les interférences qui peuvent provoquer un fonctionnement indésirable de l'appareil.



Hereby, Sony, declares that this MLU-200 is in compliance with the essential requirements and other relevant provisions of Directive 1995/5/EC.

This product is intended to be used in the following countries.: Austria, Denmark, Finland, France, Germany, UK, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland

Sony erklärt hiermit, dass diese MLU-200 den wesentlichen Anforderungen und sonstigen Voraussetzungen der Direktive 1995/5/EC erfüllt.

Dieses Produkt ist für den Gebrauch in den folgenden Ländern bestimmt: Dänemark, Deutschland, Finnland, Frankreich, Großbritannien, Holland, Italien, Norwegen, Österreich, Portugal, Schweden, Schweiz und Spanien.

Sony déclare par la présente que ce MLU-200 est en conformité avec les exigences essentielles et les autres stipulations pertinentes de la Directive 1995/5/CE. Ce produit est destiné à être utilisé dans les pays suivants: Autriche, Danemark, Finlande, France, Allemagne, Royaume-Uni, Italie, Pays-Bas, Norvège, Portugal, Espagne, Suède et Suisse.

Por la presente Sony declara que este MLU-200 cumple con los requisitos esenciales y otras cláusulas relevantes de la Directiva 1995/5/EC.

Este producto fue diseñado para ser utilizado en los siguientes países: Austria, Dinamarca, Finlandia, Francia, Alemania, Reino Unido, Italia, Holanda, Noruega, Portugal, España, Suecia, Suiza

(Continued)

Con cii, Sony dichiara che questo MLU-200 è conforme ai requisiti essenziali e alle altre pertinenti disposizioni della direttiva 1995/5/CE.

Questo prodotto è destinato ad essere usato nei seguenti paesi: Austria, Danimarca, Finlandia, Francia, Germania, Regno Unito, Italia, Paesi Bassi, Norvegia, Portogallo, Spagna, Svezia, Svizzera

A Sony declara que o modelo MLU-200 está em conformidade com as exigências essenciais e outras providências pertinentes da Directiva 1995/5/EC. Este produto foi projectado para uso nos seguintes países: Áustria, Dinamarca, Finlândia, França, Alemanha, Reino Unido, Itália, Holanda, Noruega, Portugal, Espanha, Suécia e Suíça.

Sony verklaart hierbij dat de MLU-200 voldoet aan de hoofdvereisten en andere relevante bepalingen van de Richtlijn 1995/5/EC.

Dit product is bedoeld voor gebruik in de volgende landen: Denemarken, Duitsland, Groot-Brittannië, Finland, Frankrijk, Italië, Nederland, Noorwegen, Oostenrijk, Portugal, Spanje, Zweden en Zwitserland

Sony erklærer herved, at denne MLU-200 er i overensstemmelse med de grundlæggende krav og andre relevante bestemmelser i Direktiv 1995/5/EC.

Dette produkt er beregnet til anvendelse i følgende lande: Østrig, Danmark, Finland, Frankrig, Tyskland, Storbritannien, Italien, Holland, Norge, Portugal, Spanien, Sverige, Schweiz.

Sony betygar härmed att denna MLU-200 uppfyller de väsentliga kraven och andra tillhörande villkor för EG-direktiv 1995/5/EC.

Denna apparat är avsedd att användas i följande länder: Österrike, Danmark, Finland, Frankrike, Tyskland, Storbritannien, Italien, Holland, Norge, Portugal, Spanien, Sverige och Schweiz.

Sony ilmoittaa täten, että tämä MLU-200 vastaa ohjeen 1995/5/EC olennaisia vaatimuksia ja muita vastaavia säädöksiä.

Tämä laite on tarkoitettu käytettäväksi seuraavissa maissa: Itävalta, Tanska, Suomi, Ranska, Saksa, Iso-Britannia, Italia, Alankomaat, Norja, Portugali, Espanja, Ruotsi, Sveitsi.

Με το παρόν, η Sony δηλώνει ότι η συσκευή MLU-200 είναι σύμφωνη με τις απαραίτητες απαιτήσεις και τους άλλους σχετικούς όρους της Οδηγίας 1995/5/EE.

Το προϊόν αυτό προορίζεται για χρήση στις εξής χώρες: Αυστρία, Δανία, Φινλανδία, Γαλλία, Γερμανία, Ηνωμένο Βασίλειο, Ιταλία, Ολλανδία, Νορβηγία, Πορτογαλία, Ισπανία, Σουηδία, Ελβετία

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Overview

The MLU-200 is a handy reader/writer specifically designed for use with the Tele-File¹⁾ system.

Features of MLU-200

No contact communication

It is possible to read and write data of the optional device for the Tele-File system (MLB-1M-100/1TS-100 etc.) without contact. Thanks to no contact communication, there is no soiling or wearing down of physical components. High reliability is thus maintained even after repeated operations.

Compact and lightweight

Thanks to compact and lightweight, high movability is realized.

Low power consumption and long continuous operation

Low power consumption is realized. It is possible to operate for 8 hours or more continuously under the normal operation.

Mass data storage

MLU-200 has a memory of 512K bytes. Thanks to adoption of the memory stick²⁾, mass data storage is realized.

Infrared communication

Data can be transferred between MLU-200 and an external personal computer with infrared communication.

Communication with personal computer

Data can be transferred with RS-232C or USB communication between MLU-200 and an external personal computer through an optional MLT-200 terminal.

Self-diagnostics

MLU-200 has self-diagnostics.

1) Tele-File

Tele-File is a trademark of Sony Corporation.

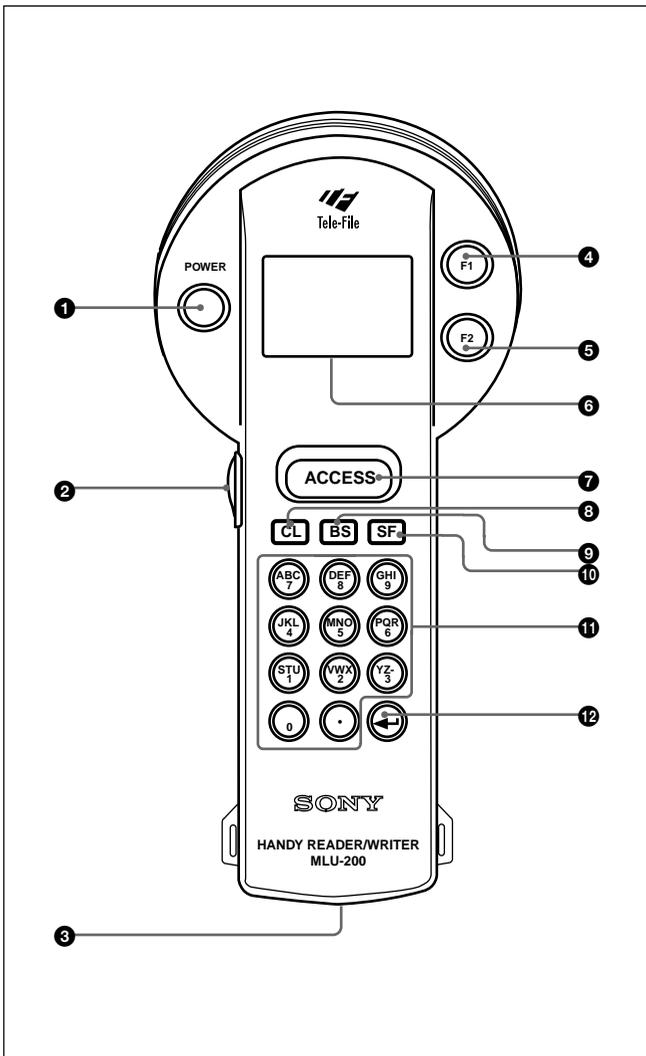
2) Memory stick

Memory stick is a trademark of Sony Corporation.

2(GB)

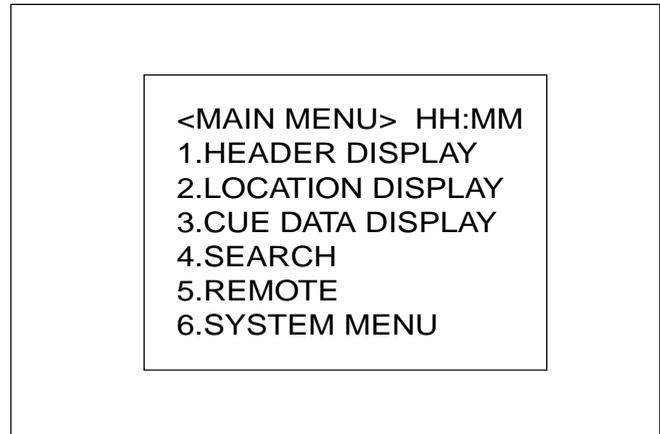
Location and Function of Parts

Front Panel



1 POWER key

Press this key to turn on and off the power. When a battery pack is attached, a press of this key turns on the power, then <MAIN MENU> is displayed. When the <MAIN MENU> is displayed, a press of this key turns off the power. When a MLU-200 is in the sleep mode, a press of this key releases the sleep mode.



<MAIN MENU>

Note

Even when the power is turned off, the electric current is consumed. If you will not use a MLU-200 for a long time, be sure to remove the battery pack.

2 Jog dial

Turn and click this dial to select the item in the menu and to fix data when editing.

With turning this dial

- Selects the item.
- Select the item to be edited when editing the data.
- Move the cursor when editing the data.

With clicking this dial

- Fix the item to be selected.
- Fix the item to be edited when editing the data.
- Fix the contents to be edited when editing the data.

3 IrDA

Window for infrared transfers with a personal computer and an optional MLT-200 terminal.

4 F1 key

Press this key to scroll the display in the left direction.

5 F2 key

Press this key to scroll the display in the right direction.

6 Display

Menu and data are displayed.

Location and Function of Parts

⑦ ACCESS key

Press this key to read and write data. Press this key while positioning the data transfer area over an optional memory label.

⑧ CL(Clear) key

Press this key to clear the input data when editing data. With pressing this key together with the SF key, the input data reverts.

This key is also pressed to return to the upper menu.

⑨ BS(Back Space) key

Press this key to delete a character on the cursor when editing data.

⑩ SF(ShiFt) key

Press this key to input a character of an alphabet when editing data. In the upper left side of the display, [ABC] blinks. To release, press this key again. With pressing this key together with the CL key, the edited data reverts.

⑪ Alphabetical and numerical keys (A to Z, 0 to 9, hyphen(-), space and period(.))

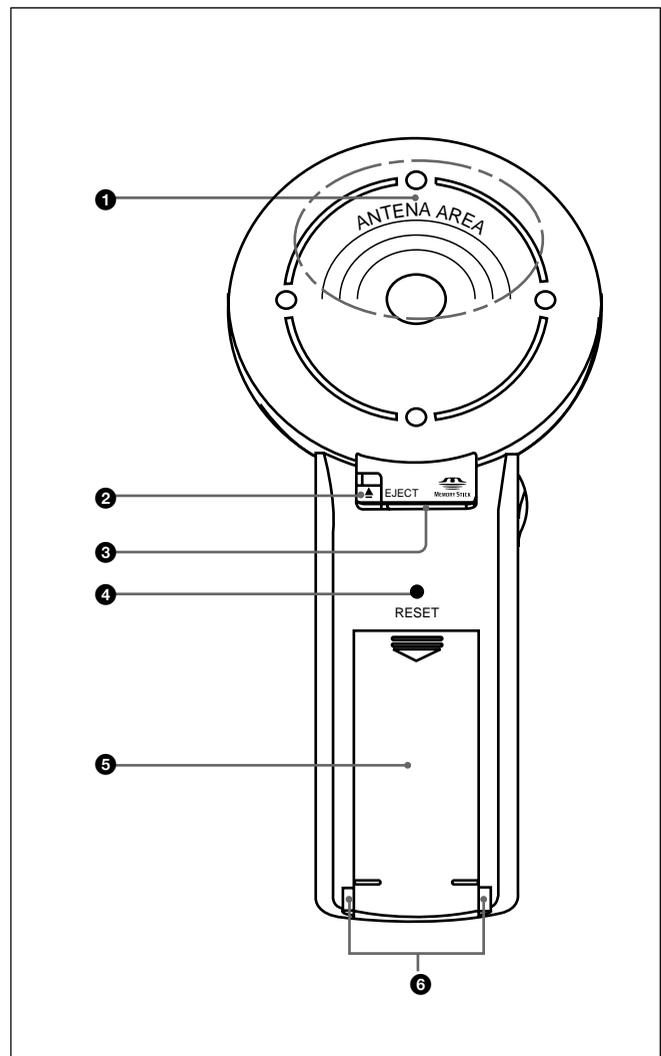
Press these keys to input characters when editing data. These keys are also pressed to select the menu to be displayed. To select the menu, press the numerical key of the menu number in <MAIN MENU>.

⑫ ← (Return) key

Press this key to fix the selection of item. The display proceeds to the next stage.

This key is also pressed to fix the selection of item to be edited and the contents to be edited when editing data.

Rear panel



① Data transfer area

Position this area over an optional memory label for data transfer.

② EJECT lever

Push this lever in the direction of ▲ to eject a memory stick.

③ Slit for the memory stick

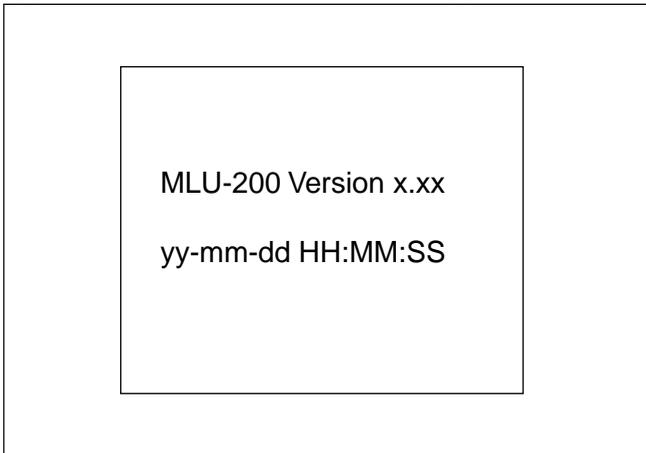
Insert a memory stick into this slit.

④ RESET switch

Push this switch to reset a MLU-200.

5 Battery cover

Pull this cover in the direction of ▼ to attach and detach a battery pack. When the battery pack is attached, the start-up display appears, then after approx. 5 seconds <MAIN MENU> appears.



Start-up display

Note

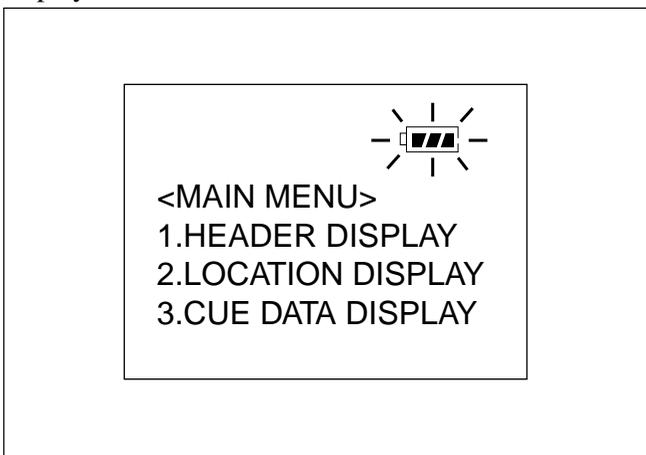
Be sure to turn off the power when attaching and detaching a battery pack to remain the stored data.

6 Charging terminals

These are charging terminals. When a MLU-200 is put on a MLT-200 terminal with these terminals connected with ones of the MLT-200, charging starts. When the battery voltage of the battery pack is 0, to charge the battery fully, it takes approx. 2 hours.

Note

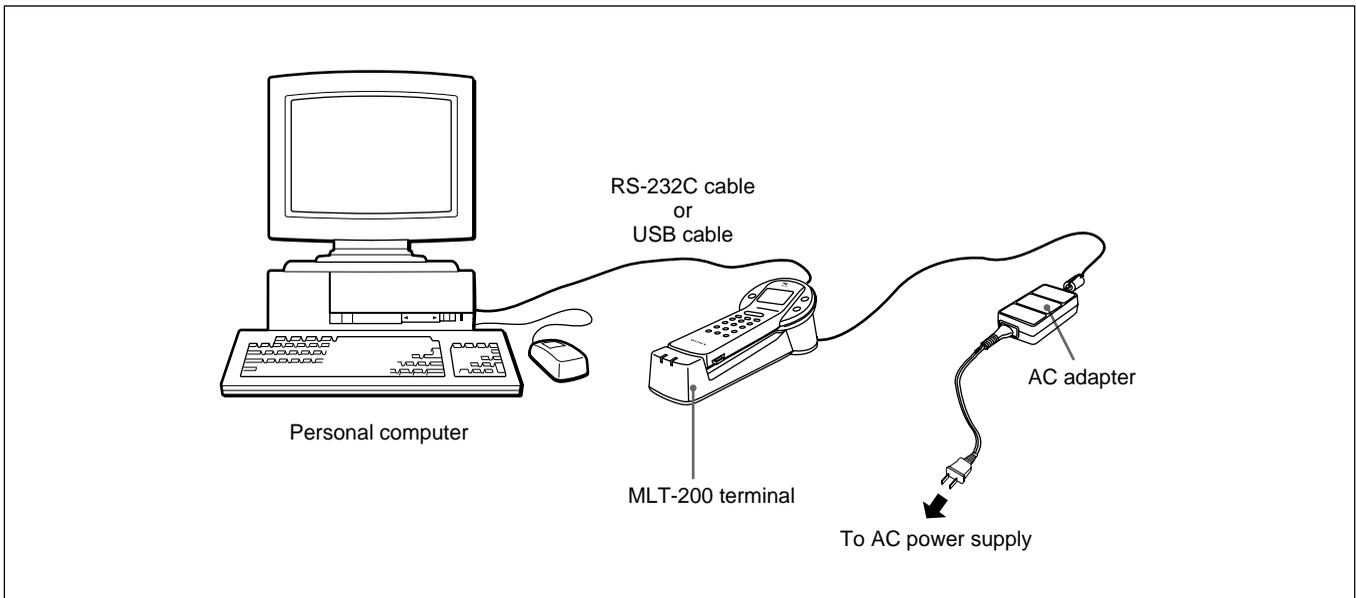
While charging, the battery icon appears on the display.



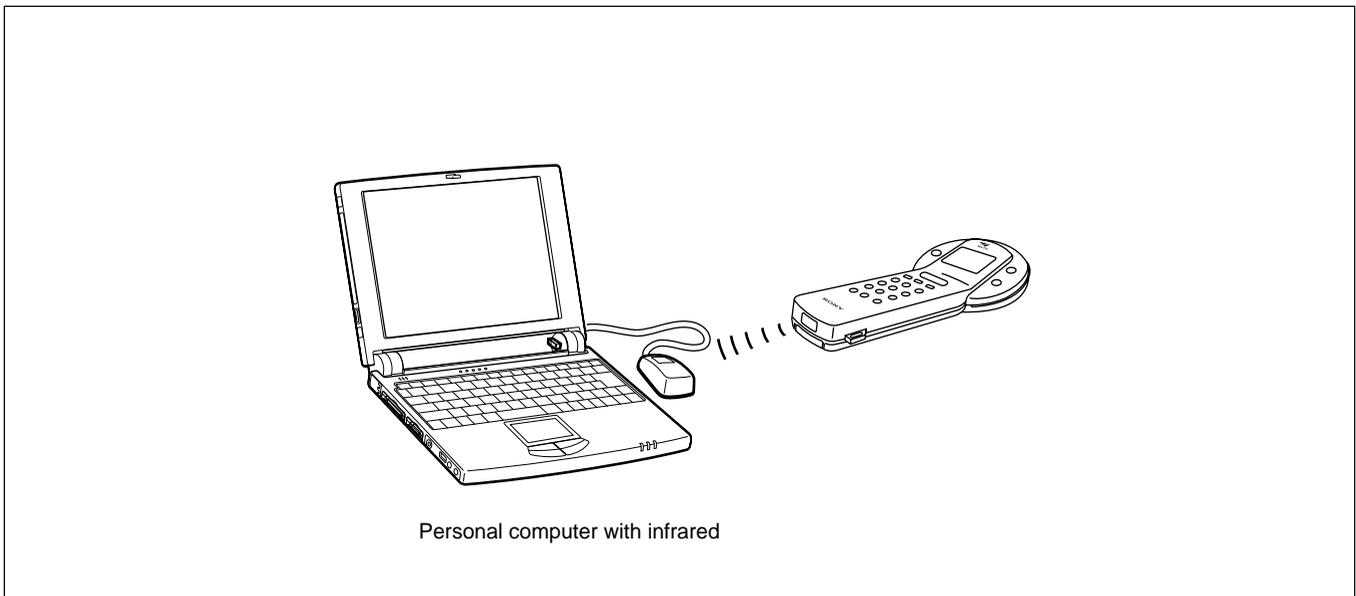
When charging with an optional MLT-200 terminal, be sure to put a MLU-200 on the MLT-200 securely and confirm that the battery icon flashes.

Connection

RS-232C/USB Communication

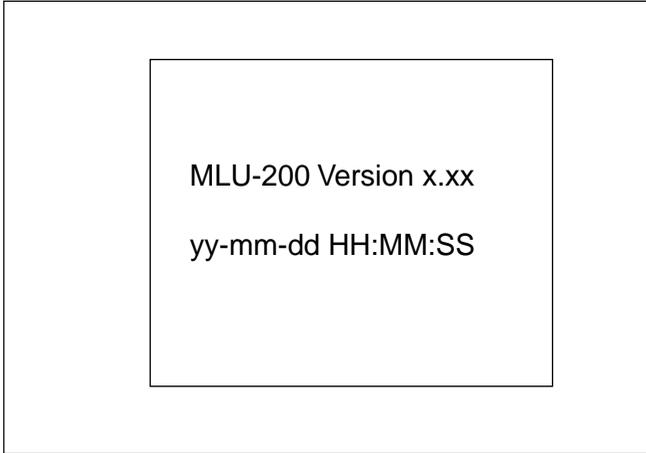


Infrared communication



Start-up

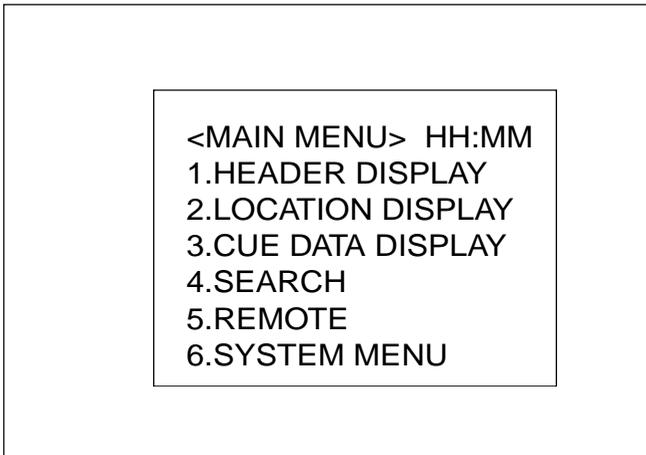
To start up a MLU-200 Handy Reader Writer, attach a battery pack to the MLU-200. The start-up display appears, then after 5 minutes the <MAIN MENU> appears.



Start-up display

Note

Confirm that time is correct.



<MAIN MENU>

Turning off MLU-200

To turn off a MLU-200, push the POWER button when the <MAIN MENU> is displayed.

Turning on MLU-200 with a battery pack already attached

To turn on a MLU-200, push the POWER key. <MAIN MENU> is displayed immediately.

MAIN MENU

MAIN MENU consists of the following menus.

1. HEADER DISPLAY
2. LOCATION DISPLAY
3. CUE DATA DISPLAY
4. SEARCH
5. REMOTE (Not available now)
6. SYSTEM MENU (Not available now)

Details for each menu are as follows.

HEADER DISPLAY menu

In this menu, it is possible to read the header data of a memory label.

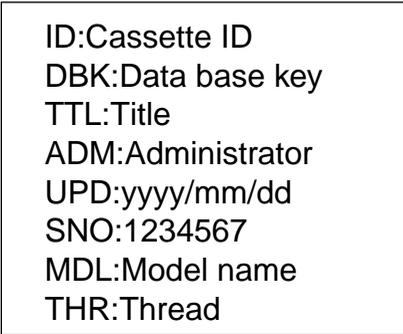
Note

With this menu, the only header information is read.

Displaying the HEADER DISPLAY menu

The “HEADER DISPLAY” menu is displayed with either of the following procedures.

- In the <MAIN MENU>, move the cursor to “HEADER DISPLAY” with turning the jog dial, and click the jog dial or press the ← key.
- In the <MAIN MENU>, press the numerical key “1.”



ID:Cassette ID
DBK:Data base key
TTL:Title
ADM:Administrator
UPD:yyyy/mm/dd
SNO:1234567
MDL:Model name
THR:Thread

HEADER DISPLAY menu

ID (cassette ID) :20 characters of ASCII
DBK (Data Base Key) :20 characters of ASCII
TTL (TiTLe) :24 characters of ASCII
ADM (ADMinistrator) :16 characters of ASCII
UPD (UPDated date) :yyyy(year)/mm(month)/
dd(data)
SNO (Serial NO.) :7 digits
MDL (MoDeL name) :12 characters of ASCII
THR (number of THReading) 0 to 32767

Reading the header data of a memory label

- 1 Display the HEADER DISPLAY menu.
- 2 Position the data transfer area of the MLU-200 over a memory label.
- 3 Press the ACCESS key.

LOCATION DISPLAY menu

In this menu, it is possible to read the location data of a memory label.

Displaying the LOCATION DISPLAY menu

The “LOCATION DISPLAY” menu is displayed with either of the following procedures.

- In the <MAIN MENU>, move the cursor to “LOCATION DISPLAY” with turning the jog dial, and click the jog dial or press the ← key.
- In the <MAIN MENU>, press the numerical key “2.”



FLOOR NO.: 123
SHELF NO.: 785156
STEP NO.: 456
POSITION: 7890

LOCATION DISPLAY menu

FLOOR NO. :3 characters of ASCII to identify No. of the floor where the cassette tape with the memory label is stocked

SHELF NO. : 6 characters of ASCII to identify No. of the shelf where the cassette tape with the memory label is stocked.

STEP NO. :3 characters of ASCII to identify No. of the step where the cassette tape with the memory label is stocked.

POSITION:4 characters of ASCII to identify the position where the cassette tape with the memory label is stocked.

To restore the data

Press the CL key.

5 Click the jog dial or press the ← key.

6 Press the CL key.

The cursor disappears.

7 Press the ACCESS key with positioning the data transfer area of the MLU-200 over a memory label.

The edited data is written.

Reading the location data of a memory label

1 Display the LOCATION DISPLAY menu.

2 Position the data transfer area of the MLU-200 over a memory label.

3 Press the ACCESS key.

Displaying the contents of the HEADER DISPLAY menu

To display the contents of the HEADER DISPLAY menu, press the BS key.

Editing the location data

To edit the location data which is read in the LOCATION DISPLAY menu, follow the procedure below.

1 Press the BS key.

The cursor appears.

2 Turn the jog dial to move the cursor to the item to be edited.

3 Click the jog dial or press the ← key.

4 Change the data.

To change the data

Press the numerical keys.

To input the alphabet

Press the SF key, then press the alphabetical keys.

To delete the character

Press the BS key. The character on the cursor is deleted.

MAIN MENU

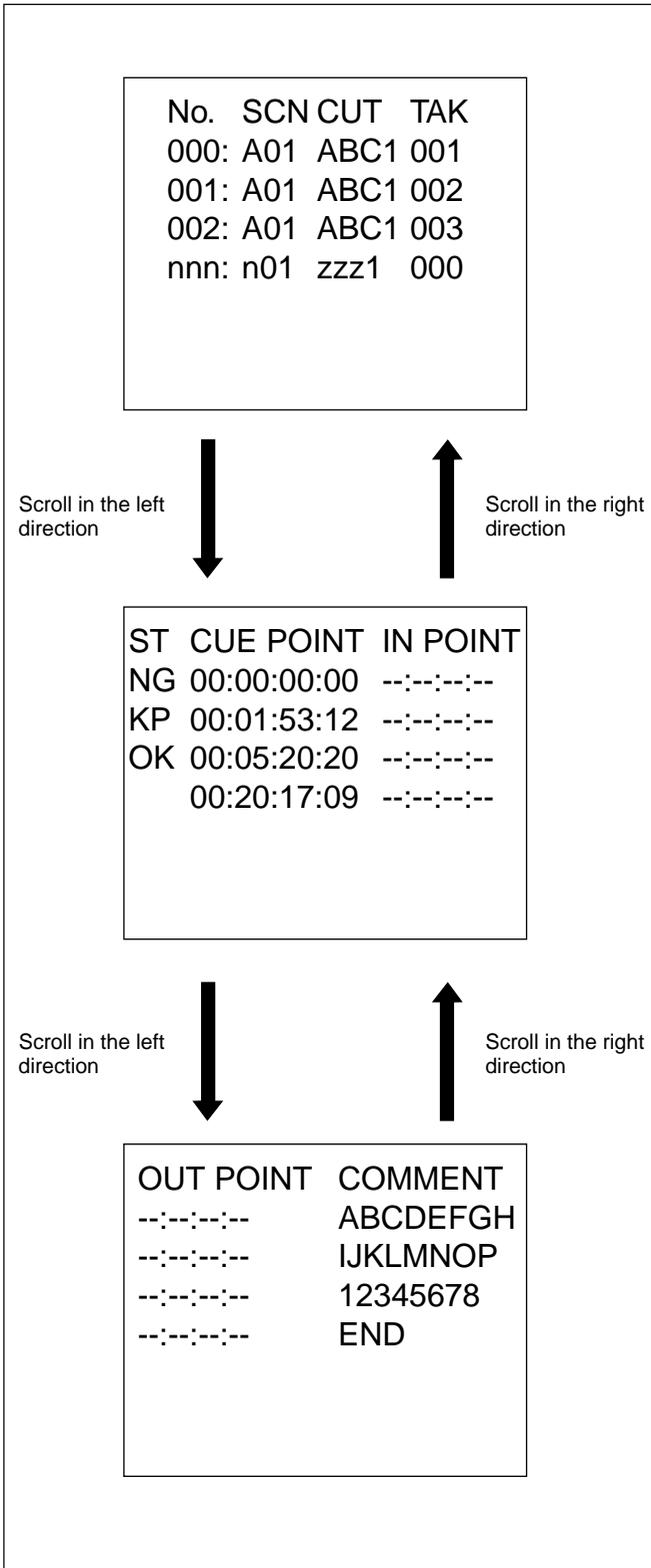
CUE DATA DISPLAY menu

In this menu, it is possible to read the CUE data of a memory label and edit it.

Displaying the CUE DATA DISPLAY menu

The “CUE DATA DISPLAY” menu is displayed with either of the following procedures.

- In the <MAIN MENU>, move the cursor to “CUE DATA DISPLAY” with turning the jog dial, and click the jog dial or press the ← key.
- In the <MAIN MENU>, press the numerical key “3.”



CUE DATA DISPLAY menu

No. : 3 digits (continuous number)
SCN : 3 characters of ASCII to identify the scene
CUT : 4 characters of ASCII to identify the cut
TAK : 3 characters of ASCII for the take number
ST : Status code

- NG : No Good
- KP : Keep
- OK : Good

COMMENT : 24 characters of ASCII for the comment

With this menu, key function is as follows;

To scroll in the left direction Press the F1 key.
To scroll in the right direction Press the F2 key.
To move to the right end Press the SF and F1 key.
To move to the left end Press the SF and F2 key.
To confirm the details of the CUE data Click the jog dial or press the \leftarrow key.
To display the “HEADER DISPLAY” menu :
 Press the BS key.

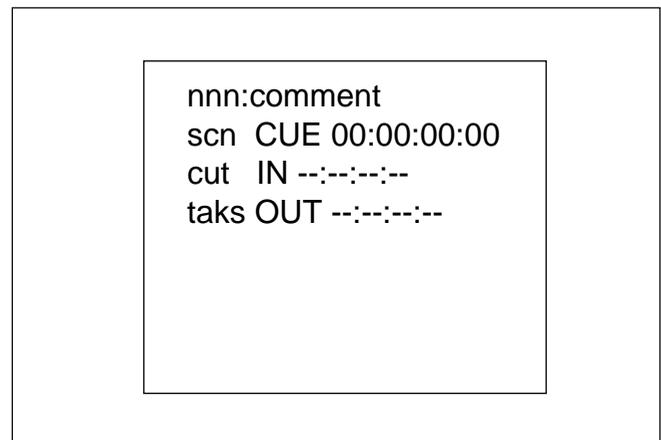
Reading the CUE data of the memory label

- 1** Display the CUE DATA DISPLAY menu.
- 2** Position the data transfer area of the MLU-200 over a memory label.
- 3** Press the ACCESS key.

Editing the CUE data

To edit the CUE data which is read in the CUE DATA DISPLAY menu, follow the procedure below.

- 1** Turn the jog dial to move the cursor to the CUE data to be edited in the CUE DATA DISPLAY menu.
- 2** Click the jog dial or press the \leftarrow key.



nnn : 3 digits (continuous number)
comment : 80 characters of ASCII for the comment
scn : 3 characters of ASCII to identify the scene
cut : 4 characters of ASCII to identify the cut
tak : 3 characters of ASCII for the take number
s : Status code

- N : No good
- K : Keep
- O : Good

- 3** Press the BS key.

The cursor appears.
- 4** Turn the jog dial to move the cursor to the item to be edited.
- 5** Click the jog dial or press the \leftarrow key.
- 6** Change the data.

To change the data
 Press the numerical keys.

(Continued)

MAIN MENU

To input the alphabet

Press the SF key, then press the alphabetical keys.

To delete the character

Press the BS key. The character on the cursor is deleted.

To restore the data

Press the CL key.

7 Click the jog dial or press the ← key.

8 Press the CL key.

The cursor disappears.

9 Press the CL key.

The CUE DATA DISPLAY menu is displayed.

10 Press the ACCESS key with positioning the data transfer area of the MLU-200 over a memory label.

The edited data is written.

Displaying the contents of the HEADER DISPLAY menu

To display the contents of the HEADER DISPLAY menu, press the BS key.

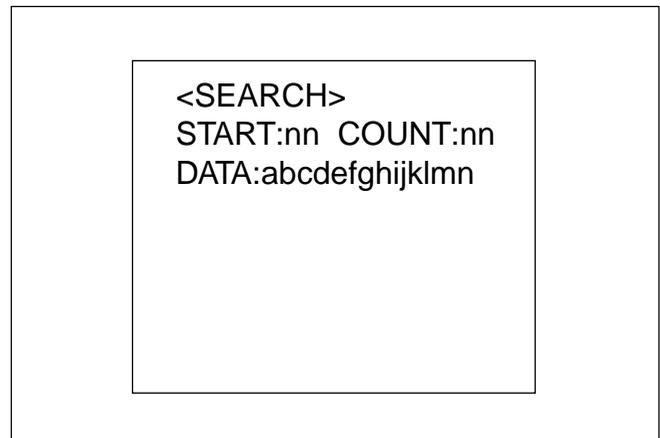
SEARCH menu

In this menu, it is possible to search a memory label.

Displaying the SEARCH menu

The “SEARCH” menu is displayed with either of the following procedures.

- In the <MAIN MENU>, move the cursor to “SEARCH” with turning the jog dial, and click the jog dial or press the ← key.
- In the <MAIN MENU>, press the numerical key “4.”



SEARCH menu

START :Number of the sector where the detection is started

COUNT :Number of sectors to be searched

DATA :Data to be searched

Searching the data

1 Display the SEARCH menu.

2 Turn the jog dial to move the cursor to the item to be input.

3 Click the jog dial or press the ← key.

4 Input the key data.

To input the data

Press the numerical keys.

To input the alphabet

Press the SF key, then press the alphabetical keys.

To delete the character

Press the BS key. The character on the cursor is deleted.

To restore the data

Press the CL key.

5 Position the data transfer area of the MLU-200 over a memory labels while pressing the ACCESS key.

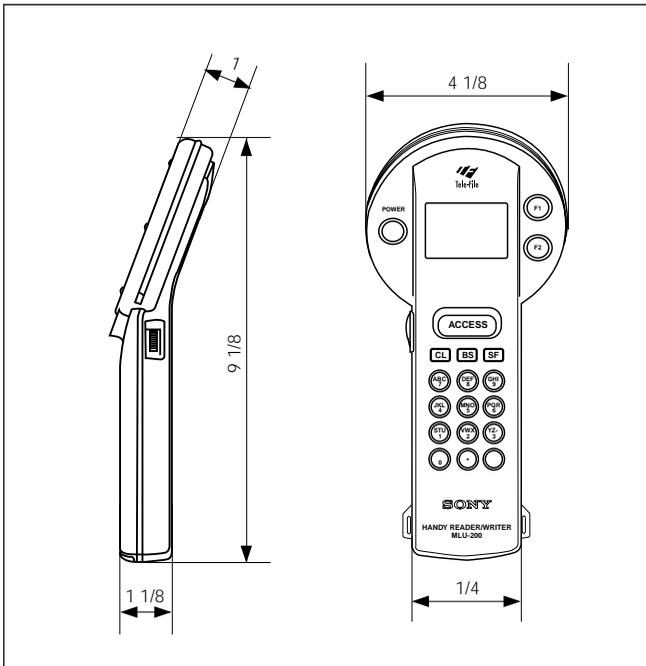
When the memory label which matches the key data for searching is found, the buzzer sounds.

Specifications

General

Transmission rate 105.9 kbps
Transmission frequency 13.56 MHz
Transmission range 0 to 20 mm
Power supply voltage DC 3.6V \pm 10%
Mass 230 g
Current 500 mA max.
Operating temperature 5 °C to 40 °C (41°F to 104°F)

External dimensions



External dimensions (Unit : inch)

Supplied accessories

Operation Manual (1)
Shoulder strap(1)

Optional accessories

MSA-4A/8A/16A/32A Memory stick
NP-FS11 Rechargeable battery pack

Design and specifications are subject to change without notice.

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