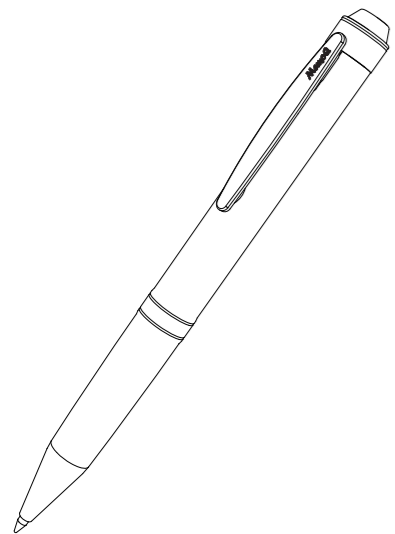


# User's Manual

Model: MQ-78



No. R-R-ESO-MQ-78

Made in Korea

## 1. Caution and warning on this product

Thank you for purchasing this product.

- \* Please read this manual and understand all the functions before use.
- \* Please write purchasing date, purchasing place, etc. in the warranty card.
- \* Free after-sale service will be not possible without the warranty card.

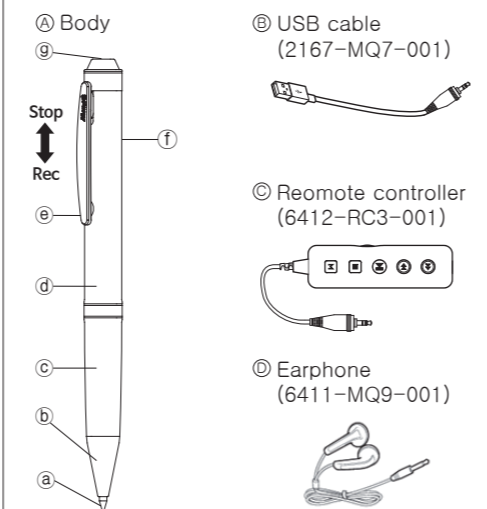
### Warning

- \* We are not responsible for the loss of recordings due to the usage, after-sale service, others, etc.
- \* We are not responsible for the damage by using this product or claim by the third party.
- \* Please save important recordings into PC immediately.
- \* Please do not decompose and adapt this product. That can be the cause of fire and failure.
- \* If you listen to the contents of this product loudly and long time, hearing ability can be damaged. Please adjust the volume moderately.
- \* Please do not use at low and high temperature. That can be the cause of fire or failure by a leak by condensation phenomenon.
- \* Please do not leave this product alone in humid place or in place exposed to oil. That can be the cause of fire and failure.

### Caution

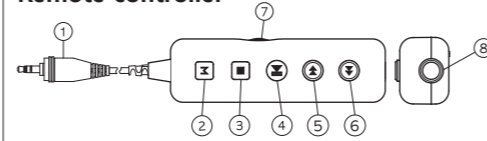
- \* To shock or drop the product can be the cause of failure.
- \* Please do not wash the surface of product with alcohol, benzene, thinner, etc.

## 2. Naming of each part



- Ⓐ Body
- Ⓑ USB cable (2167-MQ7-001)
- Ⓒ Remote controller (6412-RC3-001)
- Ⓓ Earphone (6411-MQ9-001)
- Ⓔ Ball pen refill
- Ⓕ Reill part
- Ⓖ Rotation part
- Ⓗ Body part
- Ⓘ Recording switch
- Ⓛ LED / Microphone
- Ⓜ Jack(Remote control / Charging)

### Remote controller



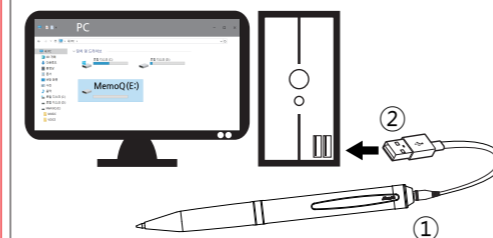
- ① Plug
- ② Mode button
- ③ Stop button
- ④ Play button
- ⑤ Previous button
- ⑥ Next button
- ⑦ Volume controller
- ⑧ Earphone jack

## 3. Charging / Transmitting file into PC

### Charging

This product has built-in rechargeable battery and use it after charging.

**(Caution)** Use adaptor to have acquired safety certification. After-sale service for the product failed by adaptor can be charged.



<Connect MQ-78 to PC by using cable>

After connecting charging cable to the charging jack of product(①), connect the opposite side to the USB of PC(②), and charging/file transmission is possible. In case of connecting adaptor, charging only is possible

You can check recordings in

'my PC' → 'MemoQ' → 'VOICE' folder.

### Charging status indication

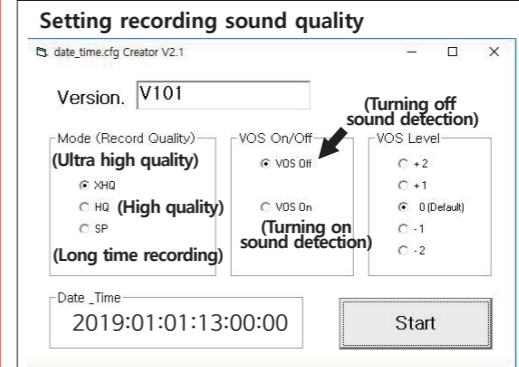
During charging, LED(①) is turned on like the following color checking table. When charging is completed, green LED is turned on.

### Battery remains check / LED color checking table

In separating after connecting to PC, you can check battery remains by the color of LED for 5 seconds.

| Charging amount     | LED color              |
|---------------------|------------------------|
| less than 30%       | red LED flashes        |
| 30%~60%             | blue LED flashes       |
| 60%~100%            | green LED flashes      |
| Charging completion | green LED is turned on |

## 4. Setting date, time and recording sound quality (PC)



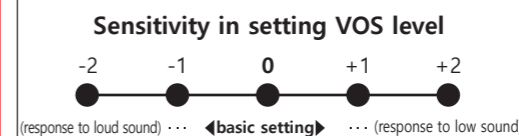
### Setting date and time

- ① After connecting to PC, perform the program of 'Time Setup' in the file of USB.
- ② Click the button of "Start", and file of "date\_time.cfg" is created in product.
- ③ Separate product from PC, and LED lamp flashes rapidly and time setting is completed.

### Setting VOS level

You can set up the volume of sound to start recording in sound detection recording.

(Basic setting is "0")



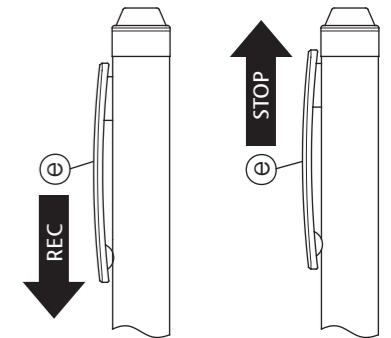
### Caution

All settings are applied at the time of separation from PC. (At the time to click the button of "Start", date and time are set up.)

When battery is discharged, date is initialized. (After charging, perform time setup again and use it)

## 5. Recording

### Recording switch



\*When you move recording switch(②) to recording place, recording will start in about 3 seconds.

(In shipping products, basic settings are XHQ and VOS OFF.)

### Stop recording

When you move recording switch(②) to stop place, recording stops and power is turned off after a while.

### (Cautions in recording)

(Note) In case of the continuous recording more than 5 hours, this product can separate and save the recording files by the 5 hours for more convenient hearing and file management.

When you connect earphone during recording, you can hear sound being recorded.

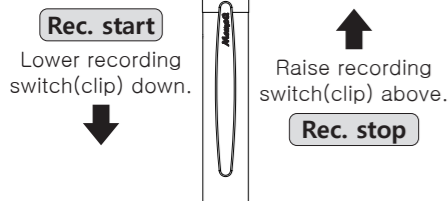
When memory capacity is short or when recording files are more than 999, warning sound is heard for 5 seconds and recording is not possible any more.

After files are deleted and memory capacity is secured, recording is possible again.

## Simple instructions

### Preparation before use(Charging)

### Rec. start / Rec. stop



### Play / Stop

#### Turning on/off by remote controller

- \*After connecting remote controller, press and hold play button, and power is turned on.
- \*Separate the plug of remote controller from body, and power is turned off.

#### Start button

- \*Press play button, and playback of recording file starts.
- \*Press it again, and it pauses.

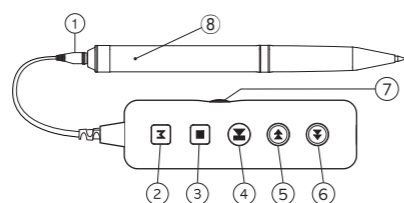
#### Stop button

- \*Press stop button during playback, and it stops.

#### \*Check points

- \*Button operation is not possible during recording.
- \*Check whether recording switch is in state of stop.
- \*Check whether earphone jack is inserted surely.
- \*Adjust the volume suitably.

## 6-1. How to use remote controller



<Picture to connect remote controller>

### Turning on power with remote controller

After connecting remote controller, press and hold play button(④) (more than 3 seconds), and power is turned on. (Blue lamp(⑧) is turned on)

### (Caution)

All operation of remote controller works in state of power-on.

### Playing recording files

Press the play button(④) of remote controller briefly, it plays. (Blue LED flashes during playback)

Press play button(④) briefly again, and it pauses. Press stop button(③) briefly, and playback stops.

### (Caution)

The buttons of remote controller do not work for about 3 seconds after stopping recording.

Only operation of volume is possible during recording.

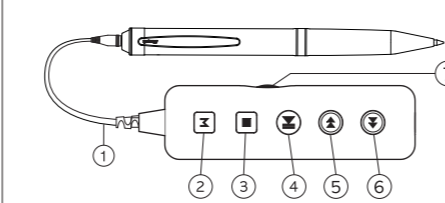
Press and hold previous button(⑤), next button(⑥) (more than 3 seconds), and rewind, fast-forward are performed.

### Turning off power with remote controller

Separate the plug of remote controller(①) from body, and power is turned off.

If it pauses or stop and is not operated for 3 minutes in state of the connection of remote controller, power is turned off. (After power is turned off, LED(⑧) is not indicated.)

## 6-2. How to use remote controller



<Picture to connect remote controller>

### Way to check battery remains with remote controller

Press M button(②) briefly after connecting remote controller during recording/playback/standby, and LED lamp is turned on according to battery remains. (refer to battery remains LED color checking table at the page of 3. Charging)

**File move** : When you operate previous(⏪) button or next(⏩) button, it moves to previous file or next file.

### Moving to first / last recording file

Press previous button(⑤) more than 3 seconds in state of stop, it moves to first recording file. Press next button(⑥) more than 3 seconds in state of stop, it moves to last recording file.

### Deleting file by remote controller

\*When you press stop(■) button more than 3 seconds in the state of stop, beep sound comes out and recorded contents are played back to confirm before deletion.

\*If the contents you want to delete are correct, please press stop(■) button again shortly and delete the file(at this time, beep tone comes out again for 2 seconds).

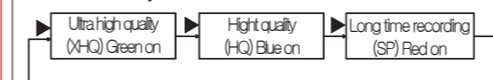
\*If the contents you want to delete are wrong, please cancel it by pressing other button.

**(Caution)** Deleted file can not be restored.

## 6-3. Recording mode / VOS Setting

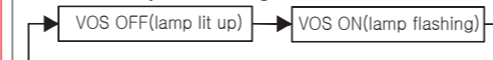
### Setting recording mode

(It is possible in state of the connection of remote controller. Refer to the page of 6-1) When you press M button long more than 3 seconds in the state of stop, LED is lit up or flashing and then recording mode is changed as following turns whenever you press play(▶) button shortly.



### VOS(Voice operated recording) setting

VOS function is that recorder detects sound in recording and when sound is not heard in recording, recording is paused automatically and when sound is heard, recording starts automatically and enables you to use memory efficiently. When you press M button long more than 3 seconds in the state of stop, LED is lit up or flashing. At this time, whenever you press stop(■) button shortly, it is changed as below.



When you press M button long more than 3 seconds after change, setting is completed.

### (Caution)

In case of using VOS function, the hour of battery use does not lengthen.

Function setting is possible both on PC or remote controller and is interlocked each other.

LED check table per recording mode and VOS mode

| Recording mode | VOS          |                |
|----------------|--------------|----------------|
|                | OFF          | ON             |
| XHQ            | Green lit up | Green flashing |
| HQ             | Blue lit up  | Blue flashing  |
| LP             | Red lit up   | Red flashing   |

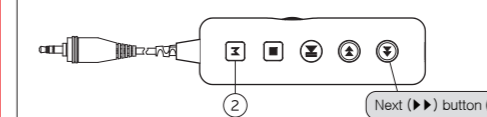
## 7. Formatting(deleting all files)

**(Caution)** -After format, data restoration is not possible.

Format important recording files after backup in PC.

In formatting product, run program is deleted and back up run program in PC and use it in case of necessity.

After backing up the program of this product, use it.



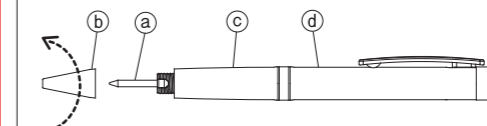
(It is possible in state of the connection of remote controller. Refer to the page of 6-1)

If you press and hold M button(②) more than 3 seconds in state of stop, LED lamp flashes in green and in red alternately, if you press next button more than 10 seconds, beep sound is heard through earphone and format is performed. When format is completed, beep sound is heard for 2 seconds.

## 8. Using as a ball pen

When you hold the body(Ⓐ) and spin the rotating part(Ⓒ) right and left, ball pen refill comes out or go in.

For the change of ball pen refill, please hold rotating part(Ⓒ) and continue to turn the part of pen refill(Ⓑ) to the left and when it is separated, pull ball pen refill out and insert new one into hole carefully.



\* Ball pen refill standard :5799-236-410(41mm)

## Warranty Card

|                  |                        |
|------------------|------------------------|
| Product name     | Digital Voice Recorder |
| Model No.        | MQ-78                  |
| Purchasing date  |                        |
| Purchasing place |                        |
| Telephone        |                        |
| Others           |                        |
| Warranty period  | 1 year                 |
| Customer         | Signature              |
|                  | Address                |
|                  | Telephone              |

### Charging service

- Failure by careless handling in use.
- Failure by user's any internal modification.
- Failure by natural disasters like fire, salt damage, flood, earthquake, etc.
- Products of which warranty period has ended.

### Product Specification

| Item              | Specification                                                        |
|-------------------|----------------------------------------------------------------------|
| Battery life time | Continuous recording : about 16 ~20 hours, Playback : about 15 hours |
| Charging time     | about 2 hours 30 minutes                                             |
| Earphone          | 10mW / 32 ohm                                                        |
| Size              | Ø11.4 X 134.2mm                                                      |
| Weight            | 19.8g                                                                |
| Temperature       | 0°C~40°C                                                             |

For the quality improvement of product, design and accessory can be changed without notice.

### Recording time per recording mode and memory capacity

| Mode/Memory | 1GByte      | 2GByte       |
|-------------|-------------|--------------|
| XHQ         | about 17hrs | about 35hrs  |
| HQ          | about 35hrs | about 72hrs  |
| LP          | about 71hrs | about 145hrs |