⚠ Cautions for Use

- RecorderGear is not responsible for the loss of recordings caused by misuse, improper handling, or technical issues.
- We are not liable for damage or third-party claims resulting from the use of this product.
- Don't disassemble, modify, drop, or expose the device to extreme heat, cold, or humidity; it may result in permanent damage.
- To avoid loss of important data, back up your recordings to a computer regularly.
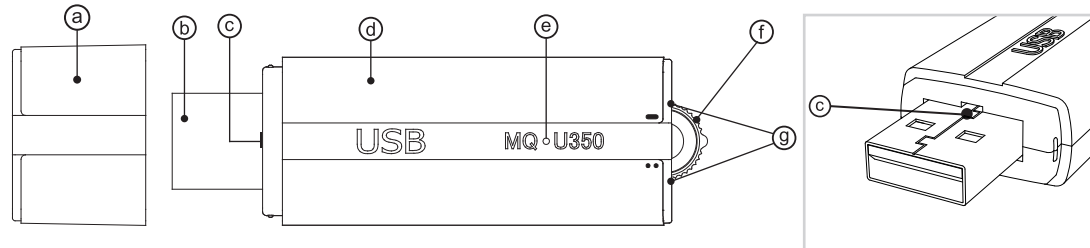
⚠ FCC Compliance

This device meets FCC rules designed to limit radio interference (Class B, Part 15).
What You Should Know: Do not modify the device. Unauthorized changes may make it illegal to use. **If this device causes interference with radio or TV reception, try:**
1. Moving the device or antenna **2.** Increasing the distance between devices **3.** Plugging into a different outlet **4.** Consulting a technician for help

FD50 Diagram

ⓐ Cap ⓑ USB Terminal ⓒ Operation Indicator ⓓ Body ⓔ Microphone ⓕ Recording Switch ⓖ Charging indicating lamp

🔋 Charging

The FD50 has a built-in rechargeable battery. Please **charge fully before first use.**
To charge: **1.** Plug the USB connector (ⓑ **USB Plug**) into a computer or certified USB charger (5V/500mA+). **2.** Charging will begin automatically. **3.** When charging is complete, the **charging indicator will blink.**

⚠ **Use only certified chargers.** Using an unsupported adapter may damage the device and void warranty coverage.

🖥 Connecting Computer (USB)

1. Set the **Recording Switch (ⓕ) to STOP,** then plug the FD50 into your PC's USB port. **2.** The device will appear as a **removable drive labeled "MEMOQ."** **3.** From there, you can **copy, delete, rename, or play recordings** directly on your computer.
🎧 Use any music or audio playback software that supports MP3 files.

⚠ Always perform **"Safely Remove Hardware"** before unplugging.
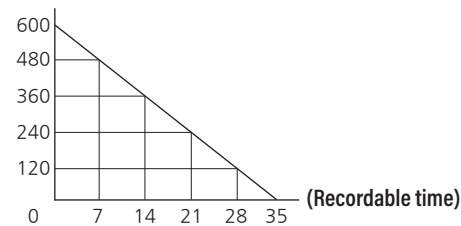⚠ Forcibly removing the device may cause file corruption or serious errors.

🔋 Battery Level Indicator

When recording begins — or when you unplug the device from a computer or USB charger — the ⓒ **Operation Indicator** light will briefly show the battery status.

Operation indicator	Not turned on	Blinking for 5 seconds	Turn on for 5 seconds
Battery remains	Insufficient 0~30%	Normal 30~70%	Sufficient 70~100%

📉 Record Time vs Standby Time

(Standby hours) (Recording Mode: HQ, SVOS LEVEL:+2)

Graph Y-axis values: 600, 480, 360, 240, 120
X-axis values: 0, 7, 14, 21, 28, 35 (Recordable time)

In SVOS (Sound-Activated Recording) mode, the FD50 enters standby when no sound is detected. This helps extend battery life dramatically. • On a full charge, the device can remain in **standby for up to 25 days** (≈600 hours). • Actual standby time decreases as more audio is recorded. • The chart below shows the trade-off between **recording time** and **standby duration,** assuming:
1. Recording Mode: HQ **2.** SVOS Level: +2 (very sensitive)

⚠ Actual results may vary depending on noise levels, usage habits, and SVOS sensitivity settings.

Specifications

Model		FD50	
Recording time	Memory	32GB	64GB
	PCM	About 96 Hrs	About 192Hrs
	XHQ	About 576Hrs	About 1152Hrs
	HQ	About 1152Hrs	About 2304Hrs
Hours of battery use	PCM	About 16Hrs	
	XHQ	About 28Hrs	
	HQ	About 35Hrs	
Super Voice Operated (SVOS)		Recording standby time : about 25days	
		Voice detection level : about 52~64dB(A)	
Max number of recording files		9,999 Files	
Diemnsion, Weight		(W)68 x (D)11 x (H)21mm, 14.7g	
Battery type		3.7V, Li-Polymer 180mAh	
Usage environment		Temperature:0~40℃, Humidity:20~80%	
Accessory		User`s manual	

Warranty Card

Product name	USB Memory & Voice Recorder
Model no.	FD50
Purchasing date	
Purchasing place	
Tel.	
Etc.	
Warranty Period	One year from purchasing date

Customer:
Name	
Address	
Tel.	

MSIP-REM-ESO-MQ-U350

Not Covered Under Warranty

- Damage caused by misuse, dropping, or careless handling
- Any modification or disassembly performed by the user
- Damage resulting from natural disasters (e.g., fire, flooding, salt exposure, earthquakes)
- Issues that occur **after the warranty period has expired**
- Cases where **replacement parts** are required due to wear or damage

⚠ **Specification can be changed for product improvement without prior notice.**

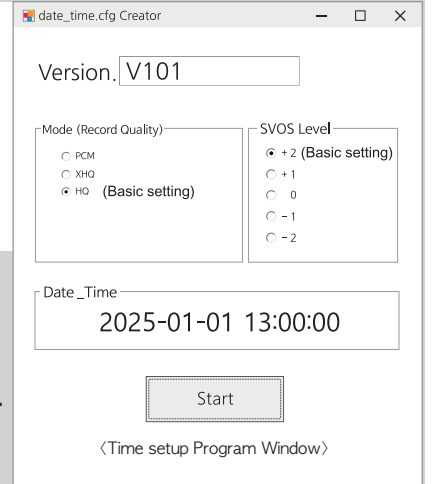CE FC K

🕐 Setting the Date & Time (windows only)

To ensure recordings are saved with the correct date and time, use the built-in **Time Setup program** on the FD50.

✅ **How to Set the Time:**
(1.) Plug the device into your PC using the ⓑ **USB terminal.** **(2.)** Open the file named **"TIME SETUP"** (stored inside the FD50). **(3.)** Choose your **Recording Quality** and **SVOS Level** if needed. **(4.)** Click the **Start** button. **(5.)** Once the file **DATE_TIME.CFG** is created, **immediately unplug the device** to complete setup.

⚠ **Important Notes:**
- This program only works on Windows OS.
- The **date and time displayed are pulled from your PC** — make sure your computer clock is accurate.
- If you **don't unplug the device right after clicking Start,** your timestamp may not set.
- If you leave the device connected too long after pressing Start, the setting **will not save.**

date_time.cfg Creator — □ ✕
Version. V101
Mode (Record Quality): ○ PCM ○ XHQ ● HQ (Basic setting)
SVOS Level: ● +2 (Basic setting) ○ +1 ○ 0 ○ -1 ○ -2
Date_Time: 2025-01-01 13:00:00
[Start]
〈Time setup Program Window〉

🕐 Time Setting Options – Explained

🎧 **1. Recording Quality (MODE)**
This setting determines the **sound quality** and **file size** of your recordings.
- **PCM,** Lossless "Uncompressed" (705 kbps / 44.1 kHz)
- **XHQ,** Ultra High Quality (128 kbps / 32 kHz)
- **HQ,** High Quality (64 kbps / 16 kHz)

💬 **Quick Tip:** Higher quality = better audio, but uses more battery and memory.

🔊 **2. SVOS LEVEL** (Sound Activation Sensitivity)
When **SVOS Mode** is active, the recorder will only capture sound when it detects noise. The **SVOS LEVEL** setting controls how sensitive the device is to sound. **+2 Very Sensitive** ~52 dBA (soft sounds) • **+1 Sensitive** ~55 dBA. • **0 Normal** (Default) ~58 dBA • **–1 Less Sensitive** ~61 dBA • **–2 Least Sensitive** ~64 dBA (only loud sounds)
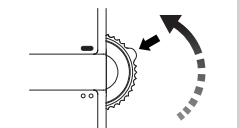
(React to low sound)		SVOS LEVEL	(React to loud sound)	
+2	+1	0	-1	-2

🔄 Continuous Recording

(1.) Rotate the ⓕ Recording Switch toward the 「▬」 icon.
(2.) After about 5 seconds, recording begins automatically if there is enough battery.
(3.) To stop, rotate the switch to the **STOP** position — the ⓒ Operation Indicator will flash 3 times to confirm the file was saved.

💬 **Quick Tip:** Files are automatically split every **5 hours** into separate MP3 files.
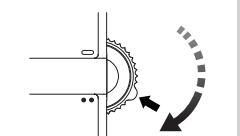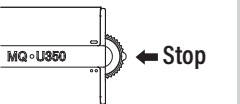
Continuous recording (diagram)

🚫 SVOS Recording (Sound Activated)

(1.) Rotate the ⓕ Recording Switch toward the 「●」 icon.
(2.) After about 5 seconds, the device enters standby. Recording begins only when sound is detected.
(3.) If silence continues for 1 minute, it automatically pauses and returns to standby
(4.) To stop, return the switch to **STOP** — the ⓒ Operation Indicator will flash 3 times.

Stop (diagram) MQ-U350

⚠ **Note:** SVOS is energy efficient, but may miss very quiet sounds. For important recordings, we recommend using **Continuous Mode.**
💬 **Quick Tip:** If the **REC indicator is set to OFF** in the Time Setup program, the LED will not blink during recording.

SVOS Recording (diagram)

🔌 Recording with External Power

For long sessions, you can connect the FD50 to a USB power adapter or PC during recording.

💬 **Quick Tip:** While plugged in, the device will record continuously and blink the indicator every 5 seconds.

💾 File Storage & Format

Files are saved in the **Voice** folder. • Up to **9,999 recordings** can be saved. • File names are timestamped using this format: **R-00001_YYMMDDHHMM_TYPE.MP3**

- The file names are classified according to Normal Recording (REC)/ SVOS Recording (SVOS)

Ex
┌ R-00001_2501011200_REC.MP3 **(Normal recording)**
└ R-00001_2501011200_VOS.MP3 **(SVOS recording)**

⚠ **Note:** If the battery fully dies, the device resets its internal date/time to **00:00 on Jan 01.** Re-run the **Time Setup** tool after charging.