Unit: ± 0.5 mm

Feature

- Ultra slim 1.5 mm and hidden easily
- Supports three recording modes
  (Pre-book mode、Voice detection mode、Button mode)
- Built-in power protection circuit
- **Certified by BSMI (Certificate No.: R3B363)**
- Customize your card surface. Please provide design file.



▲ MS-8000XR



▲ MS-8000X



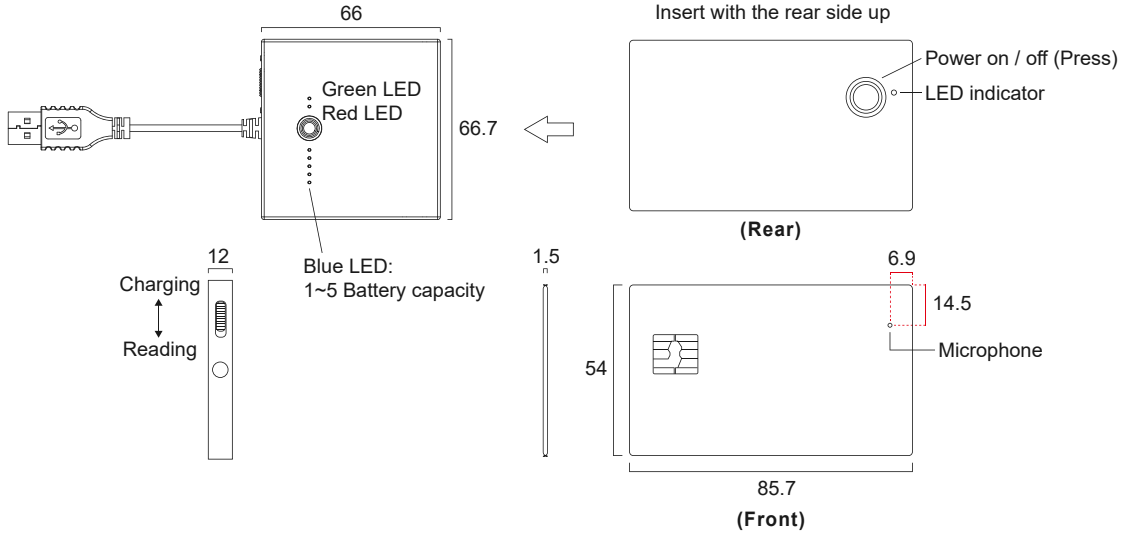
▲ MS-8000X-01
(Customize your card surface. Please provide design file.)

Specification

Model No.	8000X
Dimensions (mm)	85.7 x 54 x 1.5
Power Consumption	6 mA
Battery Capacity	3.7V / 170 mAh, lithium ion battery
Sampling Rate	24 kHz
Bit Rate	192 kbps
File Size	20 MB / 15 Minutes
Interface	USB 2.0
Encoding	ADPCM
File Format	WAV
Working Hours	Battery Working Hour: 3 hours recording Battery Standby time: 24+ hour
Storage Capacity	4 GB excluding operating system 480 MB for audio recording capacity

MS-8000X Product includes a card reader and a card. Card reader can also be sold separately.

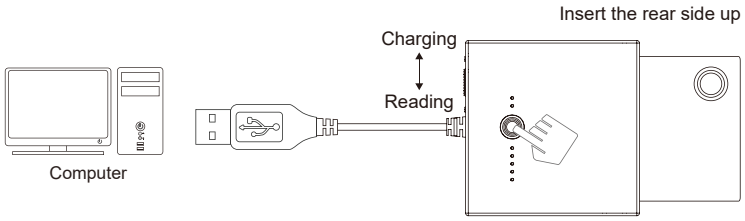




Unit: ± 0.5 mm

Voice Recorder Card Operation Instruction

Please set card reader at reading mode, connect reader to a computer, then insert card into the card reader.
Open "config.json" file to set recording mode, save the file then eject the card.
For setting recording mode, please refer to
It is strongly recommended to copy "config.json" file as a back up.
(Press the card reader's button for computer to read the card's data.)



Press the card reader's button for computer to read the card's data.

Parameter Definition

config.json ×

```
{
  "time": "20240216134000",
  "switch":0,
  "start":          134500",
  "long": 3,
  "bit":  4,
  "gain": 1,
  "part": 0,
  "vor":  2
}
```

Parameter Definition :
“time" System time :
XXXX(Year)XX(Month)XX(Day)XX(Hour)XX(Minute)XX(Second)
"switch" Pre-book recording in advance : 0 = Off / 1 = On
"start" The time to start recording :
XXXX(Year)XX(Month)XX(Day)XX(Hour)XX(Minute)XX(Second)
"long" Recording duration : 9 ~ 180 (Minute)
"bit" Sampling level : 0 = 8 khz / 128 kbps
1 = 16 khz / 256 kbps
2 = 32 khz / 512 kbps
3 = 48 khz / 768 kbps
4 = 96 khz / 1536 kbps
"gain" gain level : 1 (MIC Smallest) ~ 7 (MIC Maximum)
"part" File recording duration : 0 = 3 Minute
1 = 5 Minute
2 = 10 Minute
3 = 15 Minute
4 = 20 Minute
"vor" Voice control sensitivity level : 0 = Off
1 (lowest sensitivity) ~ 5 (highest sensitivity)
“The approximate file size of recording 3 minutes.”
bit: 0 = 2.7 MB
1 = 5.6 MB
2 = 10.8 MB
3 = 16 MB
4 = 31 MB

Recording Mode Setting

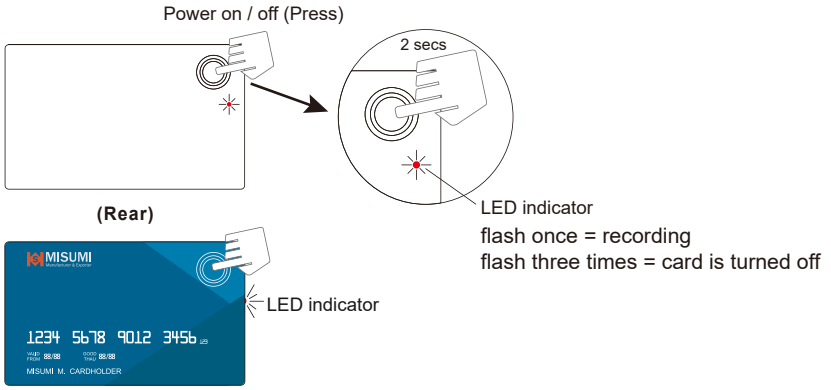
Three modes to record :

	Pre-book mode (S)	Voice detection mode (V)	Button mode (L)
switch	1	0	0
long	9 ~ 180	x	x
vor	0	1 ~ 5	0
bit	0 ~ 4	0 ~ 4	0 ~ 4

Pre-book mode (S) :
long = recording duration (10=record 10min then stop),
after pre-book status has been setup please eject recorder card from card reader.
**Make sure the card is turned off before setting pre-book mode.
Press 2 seconds to check status :
Flash once = the card is recording
Flash three times = the card is turned off.

Voice detection mode (V) :
After voice detection has been setup please eject recorder card from card reader.
When sound has been detected, the card will automatically start recording until battery runs out.
**To check Recorder Mode : Press for a second, if the LED flashes once it means the card is recording, if the LED flashes three times it means the card is in shutdown mode.

Button mode (L):
After unplugging recorder card from card reader, please wait 1 min before starting to record by pressing the button.
**Start recording : Press 2 seconds until LED flashes once
**Turn off : Press 5 seconds until LED flashes three times
Notice bit：0 ~ 4 (Recorder card capacity is 480MB,
when capacity is full it will automatically override older file.)



Unit: ± 0.5 mm

Pre-book Mode (S)

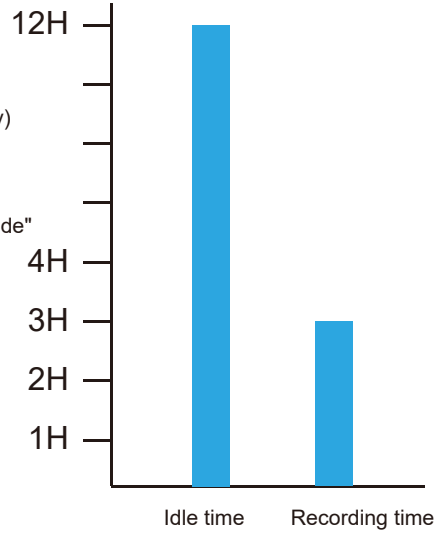
Pre-book Mode Setting
time : "20240723103000"
switch : 1
start : "20240723223000"
(You will need to manually type in the year, month, and day)
long : 180
bit : 1 (5.6 MB)
**During pre-book mode,
pre-book mode can be stopped and changed to "Button mode"

S20240723173500.wav 2105/7/23 下午 05:38 5,604 KB
S20240723173800.wav 2105/7/23 下午 05:41 5,626 KB

USB 磁碟機 (E:)
剩餘 150 MB，共 480 MB

Setting Display :

```
"time": "20240723103000",
"switch":       1,
"start":"20240723223000",
"long": 180,
"bit":  1,
"gain": 1,
"part": 0,
"vor":  0
```



Button mode (L)

Button Mode Setting
switch : 0
bit : 4 (31 MB)

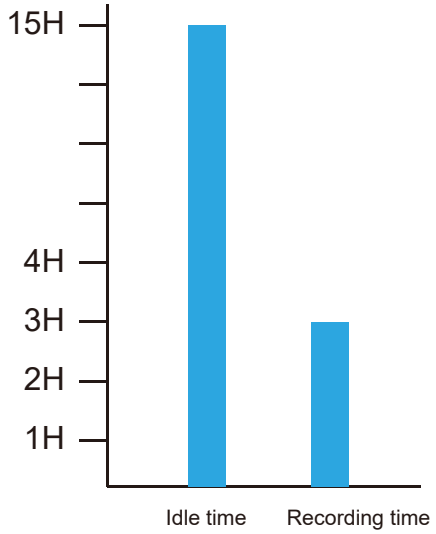
L20240723091039.wav 2105/7/23 上午 09:13 26,776 KB
L20240723091340.wav 2105/7/23 上午 09:16 26,956 KB

USB 磁碟機 (E:)
剩餘 42.0 MB，共 480 MB

Start recording :
Press 2 seconds until LED flashes once
Turn off :
Press 5 seconds until LED flashes three times

Setting Display :

```
"time": "20240723053000",
"switch":       0,
"start":        "173000",
"long": 180,
"bit":  4,
"gain": 1,
"part": 0,
"vor":  0
```



File Name & How to Format File

File name :
Pre-book mode file name → S20240227xxxxxx
Voice detection mode file name → V20240227xxxxxx
Button mode file name → L20240227xxxxxx
For example :

名稱	修改日期	類型
config.json	2024/2/27 下午 04:50	JSON
L20230908230218.wav	2022/9/8 下午 11:04	Wave
S20240223185628.wav	2081/2/23 下午 06:58	Wave
V20240227115135.wav	2085/2/27 上午 11:52	Wave

File name must be the same as system date setting, if it's different please format the recorder card.
If file name is in garbled code, please also format the recorder card.

How to format the recorder card :
Insert recorder card into card reader, right click the mouse on USB Disk (E) then click "Format" then click "Start". After formatting is completed, read the recorder card again and "config.json" file will show up. It means the recorder card is ready for recording.

Special Notes for Recording Card :

1. When turned off, the battery can last for 24H.
2. File capacity is 480MB. When capacity is full, it will overwrite older files.
3. Maximum recording time is around 3 hours
4. Press 2 seconds to check status:
   flash once = recording
   flash three times = card is turned off
5. Do not bend or break the card
6. Do not use sharp objects to scratch the card
7. Keep die point dry and clean

Battery Precautions

1. Green LED means battery is charging. Blue LED means battery is fully charged.
2. Battery is being consumed during pre-book mode and voice detection mode.
3. If the battery won't be used for a long time, please charge it once within 3 months

Cell ICP104648
Safty:EN 62386-1 ver3,EMC:EN55032 / EN55035 RoHS/WEEE
BSMI Cell UN38.3/Cell CNS15364,
Reader Safty CNS 15598-1/ EMC CNS15936

R3B363

Unit: ± 0.5 mm

經 濟 部 標 準 檢 驗 局

BUREAU OF STANDARDS,METROLOGY AND INSPECTION,
MINISTRY OF ECONOMIC AFFAIRS

商 品 驗 證 登 錄 證 書

CERTIFICATE OF THE REGISTRATION OF PRODUCT CERTIFICATION

證書號碼： CI3B3063630015 號 00
Certificate No.

茲據 升洋資訊企業有限公司 申請驗證登錄，經審查結果符合規定，准予登錄並使用商品安全標章 及識別號碼： R3B363 。其登錄事項如下：
The application made by for Registration of Product
Certification has been reviewed and found to be in compliance with related regulations. Therefore, registration is granted with the Product Safety Mark and the Identification No. R3B363 . Details of the registration are follows :

申 請 人 ：升洋資訊企業有限公司 統一編號：05165352
Applicant Uniform No.

地 址 ：新北市中和區建八路206號15樓
Address

生產廠場 ：Jiangmen GIGALI Power Solutions Co.,Ltd.
Factory

廠 址 ：Chenziwei,Xinsha Village,Muzhou Town,Xinhui District,Jiangmen City,Guangdong Province
Factory Address

商品種類名稱：
Type/name of product

商品分類號列： 8507.60.00.90.0-A
C.C.C Code

中文名稱 ： 可充式鋰離子單電池
Chinese name

英文名稱 ：
English name

型 式： ICP104648
Type

系列型式 ： 空白
Series of the type

依據標準 ： CNS15364（102年版）
Standards

標準檢驗局發證（發證地址：100臺北市中正區濟南路1段4號）
This certificate is issued by the BSMI. (No.4, Sec. 1, Jinan Rd., Zhongzheng Dist., Taipei City 100, Taiwan)
本證書以電子文件行之，所載內容若有不符之處，以標準檢驗局系統登錄資料為主，查詢證書資料網址:https://civil.bsmi.gov.tw

登錄日期：中華民國	113	年	08	月	30	日	
Registration Date	2024	(year)	08	(month)	30	(day)	
本證書有效期限至	116	年	08	月	29	日	
Expiration Date	2027	(year)	08	(month)	29	(day)	
發證日期：中華民國	113	年	08	月	30	日	
Date of issue	2024	(year)	08	(month)	30	(day)	

經濟部 標準檢驗局 BSMI

註1：持本證書進口驗證登錄商品時，進口人須與本證書名義人相同。
註2：次年度商品驗證登錄年費繳納期限為當年11月30日，逾期未繳納者，經限期繳納屆期未繳納，即依商品檢驗法第42條第7款規定廢止驗證登錄，並自次年度1月1日起生效。
註3：本證書僅代表完成檢驗程序，不作為其他(如產地)證明。

PMC 財團法人精密機械研究發展中心
Precision Machinery Research & Development Center
No.27, 37th Road, Taichung Industrial Park, Taichung, Taiwan, R.O.C.
TEL: 886-4-2359-9009
FAX: 886-4-2359-8847
www.pmc.org.tw

EN 55032
Electromagnetic compatibility of multimedia equipment - Emission Requirements
EN 55035
Electromagnetic compatibility of multimedia equipment — Immunity Requirements

Applicant	:	Misumi Electronics Corp. 5F-3 / 5F-3 No.70, Jian 6th Road, Zhonghe Dist., New Taipei City 23585, Taiwan (R.O.C.)..
Product Name	:	Voice Recorder Card
Testing Model	:	MS-8000X
Series Model	:	None
Rating	:	5Vdc, 0.3A
Peripheral Equipment	:	None
Test Standard	:	EN 55032:2015+A1:2020+A11:2020 BS EN 55032:2015+A1:2020+A11:2020 EN 55035:2017+A11:2020 BS EN 55035:2017+A11:2020
Date of Receipt Sample	:	2024-08-25
Test Date	:	2024-08-28 to 2024-09-10
Test Result	:	**PASS**
Test Laboratory	:	Precision Machinery Research & Development Center Intelligent Electromechanical Testing Laboratory No.27, Gongyequ 37th Rd., Xitun Dist., Taichung City 407, Taiwan TEL: +886-4-2359-9009, FAX:+886-4-2359-8847

Tested and Rechecked by **Bryant, Chiu** Bryant, Chiu (Signature) 2024-11-25 (Date)

Approved by **SHEN, Arthur** Shen, Arthur (Signature) 2024-11-25 (Date)

Note :
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2. The Test Results are invalid without examination stamp and signature of this laboratory.
3. The Test Results are not reproduced except in full without the written approved of PMC Lab.