

## M-VAVE Chocolate Plus

# M-VAVE Chocolate Plus MIDI Foot Controller User Manual

Model: Chocolate Plus

## 1. INTRODUCTION

The M-VAVE Chocolate Plus is a versatile wireless MIDI foot controller designed for musicians. It features four assignable footswitches and supports Bluetooth (BLE-MIDI) and USB connections, allowing control over various effects, loop pedals, tuners, and page-turning applications across multiple platforms including Windows, Mac, iOS, and Android. Its compact and rechargeable design makes it suitable for both studio and live performance environments.



Image: M-VALE Chocolate Plus MIDI Foot Controller with USB cable.

## 2. PACKAGE CONTENTS

- M-VALE Chocolate Plus MIDI Foot Controller
- USB Type-C Charging Cable
- User Manual (this document)

## 3. PRODUCT OVERVIEW

Familiarize yourself with the various components and controls of your M-VALE Chocolate Plus.



## TECHNICAL PARAMETERS

<b>Power Input</b>	<b>Average Working Current</b>	<b>Battery Model/Type</b>
Standard 5V direct current	45mA	602030
<b>Battery Capacity</b>	<b>Battery Nominal Voltage</b>	<b>USB Connection Type</b>
3.7V	300mA	Type-C
<b>Product Size</b>	<b>Product Weight</b>	<b>Size With Box</b>
212(L)x36(W)x17(H)mm	280g	227(L)x55(W)x35(H)mm
<b>Weight With Box</b>	<b>Accessories</b>	
350g	Power cablex1	

Image: Labeled diagram of the M-VAVE Chocolate Plus, showing foot switches A, B, C, D, combination switches E (A+B) and F (C+D), display screen, charging instruction light, wireless instruction light, USB port, HOST port, pedal jack, Type-C charging and data jack, and power switch.

### Front Panel Controls:

- **Foot Switches A, B, C, D:** Main control pedals for sending MIDI commands or keyboard inputs.
- **Combination Switch E (A+B):** Activates specific functions when A and B are pressed simultaneously.
- **Combination Switch F (C+D):** Activates specific functions when C and D are pressed simultaneously.
- **Display Screen:** Shows current bank, program change (PC) numbers, or control change (CC) values.
- **Charging Instruction Light:** Indicates charging status.
- **Wireless Instruction Light:** Indicates Bluetooth connection status.

### Rear Panel Connections:

- **USB Port:** For connecting to computers or other MIDI devices.
- **HOST Port:** For connecting to external effectors for MIDI control and power.
- **Pedal Jack:** For connecting an external expression pedal (if supported).
- **Type-C Charging and Data Jack:** For charging the device and data transfer.



- **Power Switch:** To turn the device on or off.

## 4. SETUP

### 4.1. Charging the Device

The Chocolate Plus has a built-in 300mAh rechargeable lithium battery. Connect the provided USB Type-C cable to the Type-C charging port on the rear panel and to a standard 5V USB power source. A full charge takes approximately 2.5 hours and provides up to 12 hours of battery life.

# THE CONTROLLER SUPPORTS

## MULTIPLE POWER SUPPLY METHODS

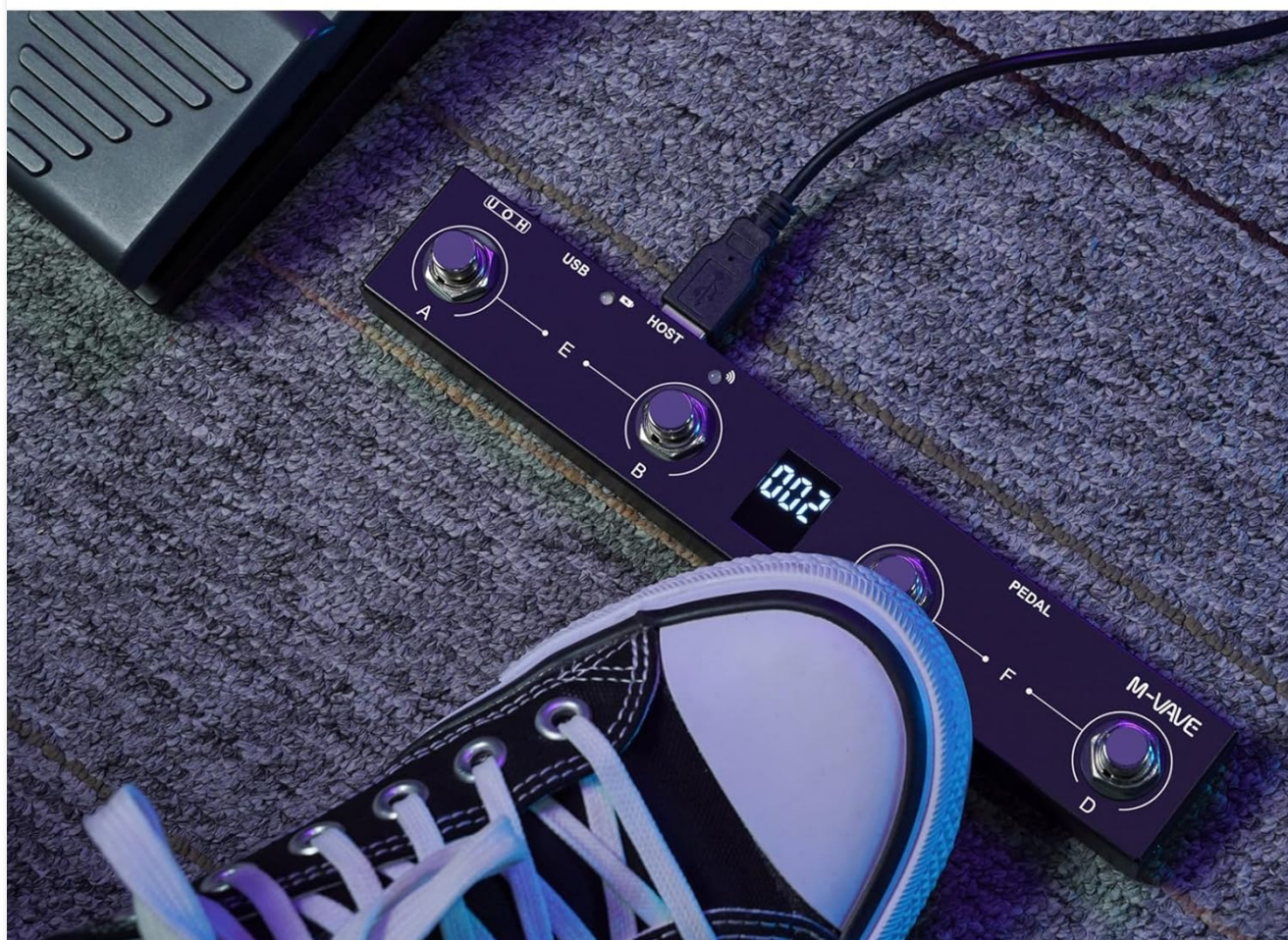
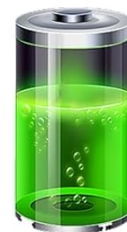


Image: M-VAE Chocolate Plus connected to a power source via USB-C cable, indicating charging.

### 4.2. Power On/Off

Locate the power switch on the rear panel of the device. Toggle the switch to the "ON" position to power on the Chocolate Plus. The display screen will illuminate, and the wireless instruction light may blink or remain solid depending on its connection status.

### 4.3. Connecting to External Devices (Bluetooth)

The Chocolate Plus supports Bluetooth (BT) wireless connection for MIDI control. To connect to a mobile phone,

tablet, or computer via BLE-MIDI:

1. Ensure the Chocolate Plus is powered on.
2. On your mobile device or computer, enable Bluetooth and search for available devices.
3. Select "Chocolate Plus" from the list of available devices to pair. The wireless instruction light on the pedal will indicate a successful connection.
4. For specific applications (e.g., sheet music page turning), ensure the application supports BLE-MIDI input.

#### 4.4. Connecting to External Effectors (USB Host Mode)

The Chocolate Plus can control other effectors via its USB HOST port. This mode also allows for wired MIDI control and can supply power to some connected effectors.

Your browser does not support the video tag.

Video: Demonstrates connecting the Chocolate Plus to an external effector via the USB HOST port for wired MIDI control and power. The video shows the Chocolate Plus controlling various parameters on the connected effector.

1. Connect the Chocolate Plus to your effector using a compatible USB cable (e.g., USB-A to USB-B for some effectors, or a USB to 5-pin MIDI cable for traditional MIDI devices).
2. Ensure the Chocolate Plus is in HOST mode (indicated by the switch position or display).
3. Power on the controlled effector. The Chocolate Plus will now send MIDI commands to the effector.
4. To turn off the wireless function while in HOST mode, press and hold footswitches B and C simultaneously for 3 seconds.

The USB HOST port can also power certain MIDI cables or small effectors, enabling MIDI control and power delivery through a single connection.

#### 4.5. Software Connection (CubeSuite App)

The M-VAVE CubeSuite app (available for mobile and computer) provides intelligent control and customization options for the Chocolate Plus. It allows for easy connection, programming of pedal functions, and mapping of MIDI parameters.

Your browser does not support the video tag.

Video: Demonstrates connecting the Chocolate Plus to the CubeSuite app, showing the scanning and connection process, and how the display reflects specific values (PC and CC).

1. Download and install the CubeSuite app on your device.
2. Ensure the Chocolate Plus is powered on and connected via Bluetooth or USB.
3. Open the CubeSuite app and follow the on-screen instructions to connect to your Chocolate Plus. The app will display the device and allow access to its settings.

### 5. OPERATING INSTRUCTIONS

#### 5.1. Basic Footswitch Operation

The four footswitches (A, B, C, D) can be programmed to send various MIDI commands or keyboard inputs. The display screen provides direct feedback on the commands issued.

Your browser does not support the video tag.

Video: A short demonstration of pressing the footswitches on the M-VAVE Chocolate Plus, showing the responsiveness of the pedals.

Each footswitch can be configured for short press, long press, or combination presses (E and F) to trigger different actions. For example, you can assign footswitches to control effects, switch presets, or activate a tuner.





# MIDI IS RICH AND VERSATILE WITH JUST A GENTLE TAP



Advanced customization of different sending methods, which can be triggered by short or long press to send; You can also send two different groups of MIDI information (each group also has a maximum of 16), and you can also set the footswitch to press and release the trigger mode to switch between sending two groups of information. This design further enriches the use scenarios of CHOCOLATE PLUS, making your MIDI control methods more diverse and bringing you a more relaxed and comfortable user experience.

Image: M-VAVE Chocolate Plus being operated by foot, demonstrating its intended use as a floor pedal.

## 5.2. Advanced Customization with CubeSuite

The CubeSuite app unlocks the full potential of the Chocolate Plus, allowing you to customize its functionality extensively. You can define specific MIDI messages (PC, CC, Note On/Off, SysEx) for each footswitch and even create custom keyboard commands.



Image: M-VAVE Chocolate Plus connected to a smartphone running the CubeSuite app, illustrating the rich software expansion functions for customization.

Your browser does not support the video tag.

Video: Demonstrates entering advanced customization mode in CubeSuite, showing how to switch banks and select custom keyboard modes, including setting combination keys.

- **MIDI Command Assignment:** Assign Program Change (PC) or Control Change (CC) messages to individual footswitches. The display can show specific PC (0-127) or CC values.
- **Bank Switching:** Use combination keys (E or F) or select banks directly within the CubeSuite app to access different sets of programmed commands.
- **Custom Keyboard Mode:** Configure footswitches to send keyboard shortcuts (e.g., Ctrl+Shift+A) for use with recording software, video players, or page-turning applications. Note that combination key 1 and key combination 2 cannot be the same.
- **Import/Export Settings:** Save and load your customized settings as .fcp files within the CubeSuite app. This is useful for backing up configurations or quickly switching between setups for different effectors or performance scenarios.

Your browser does not support the video tag.

Video: Illustrates modifying PC values within the CubeSuite app and the process of importing and exporting .fcp configuration files.

## 6. SPECIFICATIONS

### Technical Parameters

Feature	Specification
Item Weight	9.9 ounces
Package Dimensions	8.82 x 1.81 x 1.54 inches
Item Model Number	Chocolate Plus
Power Input	Standard 5V direct current
Average Working Current	45mA
Battery Model/Type	602030
Battery Capacity	300mAh

Feature	Specification
Battery Nominal Voltage	3.7V
USB Connection Type	Type-C
Product Size (L x W x H)	212 x 36 x 17 mm
Product Weight	280g
Connectivity Technology	Bluetooth, USB
Compatible Devices	Laptop, PC, Tablet, Smartphone
Hardware Platform	PC/Mac/iOS/Android
Supported Software	CubeSuite
Number of Keys	4 (Footswitches)

## 7. MAINTENANCE

To ensure the longevity and optimal performance of your M-VAVE Chocolate Plus, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using abrasive cleaners or solvents, as they may damage the finish.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** While the device is built with a durable metal casing, avoid dropping it or subjecting it to excessive force.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. Charge the device regularly, especially if it will be stored for extended periods.

## 8. TROUBLESHOOTING

If you encounter issues with your M-VAVE Chocolate Plus, refer to the following common solutions:

- **Connection Issues (Bluetooth/USB):**
  - Ensure the device is fully charged.
  - Verify that Bluetooth is enabled on your host device and the Chocolate Plus is discoverable.
  - For USB connections, ensure the cable is securely connected to both the Chocolate Plus and the host device/effector.
  - Try restarting both the Chocolate Plus and the connected device.
  - If using HOST mode, ensure the switch is correctly set to 'HOST'.
- **Software (CubeSuite) Connection Problems:**
  - If you experience connection issues with the CubeSuite software, scan the QR code on the back of the product to use the Sincoota software for a firmware upgrade. This often resolves software connection problems.
  - Ensure your CubeSuite app is the latest version.



- **Unresponsive Footswitches:**

- Check if the device is powered on and properly connected (Bluetooth or USB).
- Verify that the footswitches are correctly programmed for the desired function in the CubeSuite app.
- Ensure the correct bank is selected on the pedal.

- **Unexpected Behavior:**

- Some users have reported unexpected bank behavior upon power-up. If this occurs, try cycling through banks using the combination keys (E or F) until the desired bank is displayed and functions correctly.
- Regularly check for and apply firmware updates to ensure optimal performance and resolve known issues.

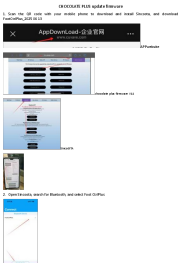
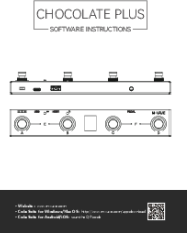

## 9. WARRANTY AND SUPPORT

The M-VAVE Chocolate Plus comes with a one-year warranty. For any product-related issues or support inquiries, please contact the seller directly. If purchased through Amazon, you can click on the seller store link and select "ask a question" for assistance.

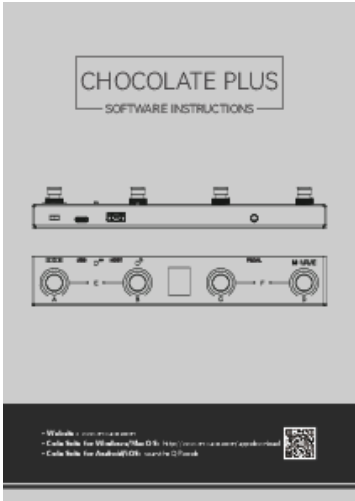
For further information or to explore other M-VAVE products, visit the official [M-VAVE Store](#).

### Related Documents - Chocolate Plus

The image shows the top portion of a technical document with a repeating 'FCC' watermark and a red circular seal at the bottom left.	<p><a href="#">FCC Radio Test Report for M-VAVE Lost Tempo Drum Looper (FCC ID: 2ARCP-LOST-TEMPO)</a></p> <p>This document is an FCC radio test report for the M-VAVE Lost Tempo Drum Looper, model 2ARCP-LOST-TEMPO. It details conducted and radiated emissions, band edge, occupied bandwidth, and antenna requirements, confirming compliance with FCC Part 15 regulations.</p>
The image shows the cover of a software instruction manual titled 'CHOCOLATE PLUS SOFTWARE INSTRUCTIONS'. It features a photograph of the device's control panel with various knobs and buttons.	<p><a href="#">M-VAVE Chocolate Plus Software Instructions</a></p> <p>Comprehensive software instructions for the M-VAVE Chocolate Plus MIDI foot controller, detailing various modes including PC, CC, custom keyboard, multimedia, and video control, along with setup and configuration options.</p>
The image shows the cover of a user manual titled 'USER MANUAL 用户说明书'. It features a photograph of the device's control panel.	<p><a href="#">M-VAVE Chocolate Wireless MIDI Pedal User Manual</a></p> <p>User manual for the M-VAVE Chocolate wireless MIDI pedal, detailing features, panel description, operation instructions, technical specifications, and FCC compliance.</p>

	<p><a href="#">M-VAVE CHOCOLATE PLUS Firmware Update Guide</a></p> <p>Step-by-step instructions for updating the firmware of the M-VAVE CHOCOLATE PLUS wireless foot controller using the Sincoota app and CubeSuite software.</p>
	<p><a href="#">M-VAVE Chocolate Plus Software Instructions - MIDI Controller Guide</a></p> <p>Detailed software instructions for the M-VAVE Chocolate Plus MIDI footswitch controller. Covers PC/CC codes, custom modes, keyboard and multimedia mapping, and preset management.</p>
	<p><a href="#">Руководство пользователя M-VAVE TANK-G: Комбинированная педаль эффектов для электрогитары</a></p> <p>Полное руководство пользователя для комбинированной педали эффектов M-VAVE TANK-G, включая описание функций, подключение, технические характеристики, гарантийное обслуживание и советы по использованию.</p>

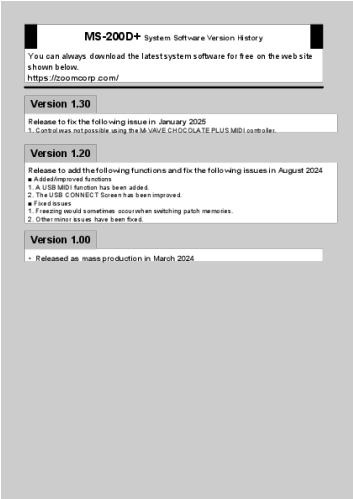
Documents - M-VAVE – Chocolate Plus



[M-VAVE Chocolate Plus Software Instructions - MIDI Controller Guide](#)

Detailed software instructions for the M-VAVE Chocolate Plus MIDI footswitch controller. Covers PC/CC codes, custom modes, keyboard and multimedia mapping, and preset management.

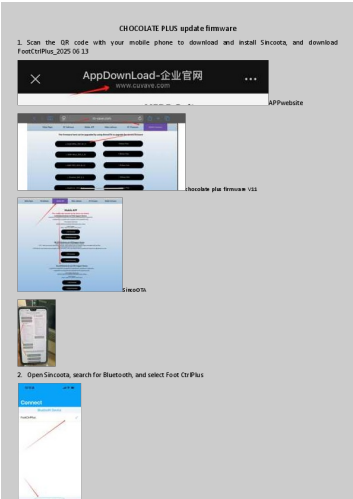
lang:en score:50 filesize: 1.23 M page\_count: 26 document date: 2024-07-09



[MS-200D+ System Software Version History - ZOOM](#)

Version history for the ZOOM MS-200D+ system software, detailing updates, bug fixes, and new features for versions 1.00, 1.20, and 1.30. Includes download information.

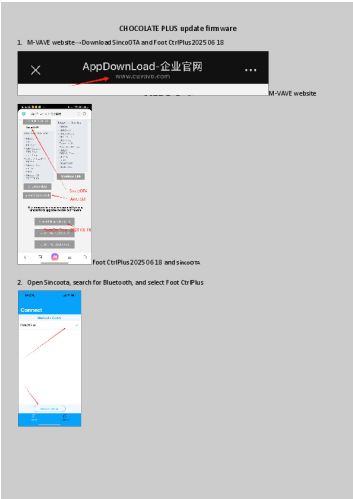
lang:en score:27 filesize: 110.79 K page\_count: 1 document date: 2025-01-28



[M-VAVE CHOCOLATE PLUS Firmware Update Guide](#)

Step-by-step instructions for updating the firmware of the M-VAVE CHOCOLATE PLUS wireless foot controller using the Sincoota app and CubeSuite software.

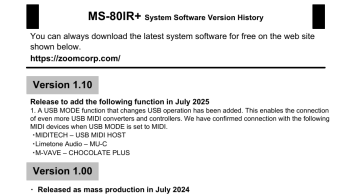
lang:es score:27 filesize: 345.76 K page\_count: 3 document date: 2025-06-29



[CHOCOLATE PLUS Firmware Update Guide](#)

A guide on how to update the firmware for the CHOCOLATE PLUS device using the SincoOTA application and CubeSuite.

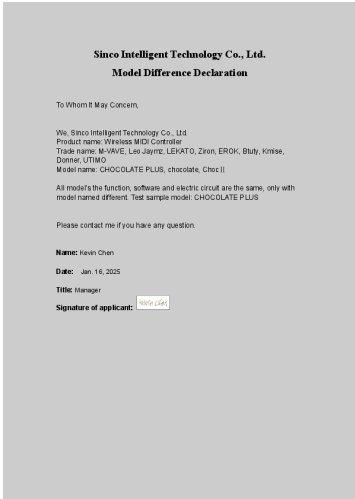
lang:es score:23 filesize: 340.04 K page\_count: 3 document date: 2025-06-29



[ZOOM MS-80IR+ System Software Version History](#)

Version history for the ZOOM MS-80IR+ system software, detailing updates and new features including USB MODE functionality for MIDI devices. Download the latest software from zoomcorp.com.

lang:en score:20 filesize: 93.92 K page\_count: 1 document date: 2025-07-21



[Sinco Intelligent Technology Co., Ltd. Wireless MIDI Controller Model Difference Declaration](#)

Declaration from Sinco Intelligent Technology Co., Ltd. confirming that various models of their Wireless MIDI Controller, including M-VAIVE, Leo Jaymz, LEKATO, Ziron, EROK, Btuty, Kmise, Donner, UTIMO, CHOCOLATE PLUS, chocolate, and Choc II, share identical functionality, software, and electric circuits, differing only in model naming.

lang:it score:15 filesize: 102.75 K page\_count: 1 document date: 2025-01-16



[Sinco Intelligent Technology Co., Ltd. Model Difference Declaration for Wireless MIDI Controller](#)

Declaration from Sinco Intelligent Technology Co., Ltd. confirming that various models of their Wireless MIDI Controller, including CHOCOLATE PLUS, chocolate, and Choc II, share identical core functions, software, and electric circuits, differing only in model names. Lists trade names such as M-VAIVE and AZOR.

lang:it score:15 filesize: 103.63 K page\_count: 1 document date: 2024-09-06



MS-70CDR+ システムソフトウェア更新履歴

最新のシステムソフトウェアは下記ウェブサイトより無料でダウンロードすることができます。  
https://zoomcorp.com/

Ver1.20

- ・ 2025年1月 下記の不具合修正版としてリリース
  - 1. MIDIコントローラー M-VAVE CHOCOLATE PLUSから制御できない。

Ver1.10

- ・ 2024年7月 下記の不具合修正版としてリリース
  - 1. パンチセンサー切り替え時にフリーズすることがある。

Ver1.00

- ・ 2024年4月 マスプロダクション用としてリリース

[pdf]

System Software Version History ZOOM zoom corporation MS 70CDRplus VersionHistory 120

jpzoomcorp documents 3535 jp |||

MS-70CDR ... MIDI M-VAVE **CHOCOLATE PLUS** Ver1.10 ...

lang:da score:14 filesize: 62.81 K page\_count: 1 document date: 2025-01-28

MS-60B+ システムソフトウェア更新履歴

最新のシステムソフトウェアは下記ウェブサイトより無料でダウンロードすることができます。  
https://zoomcorp.com/

Ver1.20

- ・ 2025年1月 下記の不具合修正版としてリリース
  - 1. MIDIコントローラー M-VAVE CHOCOLATE PLUSから制御できない。

Ver1.10

- ・ 2024年8月 下記の不具合修正版としてリリース
  - 1. パンチセンサー切り替え時にフリーズすることがある。

Ver1.00

- ・ 2024年6月 マスプロダクション用としてリリース

[pdf]

System Software Version History ZOOM zoom corporation MS 60Bplus VersionHistory 120 jpMS

jpzoomcorp documents 3533 jp |||

MS-60B ... MIDI M-VAVE **CHOCOLATE PLUS** Ver1.10 ...

lang:da score:14 filesize: 62.39 K page\_count: 1 document date: 2025-01-28

MS-50G+ システムソフトウェア更新履歴

最新のシステムソフトウェアは下記ウェブサイトより無料でダウンロードすることができます。  
https://zoomcorp.com/

Ver1.40

- ・ 2025年1月 下記の不具合修正版としてリリース
  - 1. MIDIコントローラー M-VAVE CHOCOLATE PLUSから制御できない。

Ver1.30

- ・ 2024年8月 下記の機能追加及び不具合修正版としてリリース
  - 機能追加/変更
    - 1. USB MIDI接続を追加。
    - 2. USB 接続端子の改善。
  - 不具合修正
    - 1. パンチセンサー切り替え時にフリーズすることがある。
    - 2. その他軽微な不具合の修正。

Ver1.10

- ・ 2023年11月 マスプロダクション用としてリリース

[pdf]

System Software Version History ZOOM zoom corporation MS 50Gplus VersionHistory 140 jpMS

jpzoomcorp documents 3531 jp |||

MS-50G ... MIDI M-VAVE **CHOCOLATE PLUS** Ver1.30 ...

lang:i-klinton score:14 filesize: 67.16 K page\_count: 1 document date: 2025-01-28

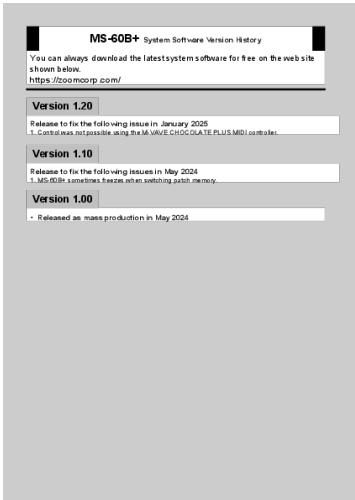


[pdf]

System Software Version History ZOOM zoom corporation MS 200Dplus VersionHistory 130 jpzoomcorp documents 3527 jp |||

MS-200D ... MIDI M-VAVE **CHOCOLATE PLUS** Ver1.20 ...

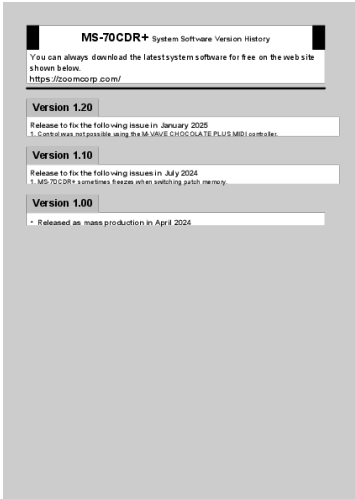
lang:i-klngon score:14 filesize: 66.32 K page\_count: 1 document date: 2025-01-28



[MS-60B+ System Software Version History - ZOOM](#)

Official version history for the ZOOM MS-60B+ guitar effects pedal system software. Details updates and bug fixes for versions 1.20, 1.10, and 1.00, with download information.

lang:i-klngon score:14 filesize: 91.46 K page\_count: 1 document date: 2025-01-28



[ZOOM MS-70CDR+ System Software Version History](#)

Official version history for the ZOOM MS-70CDR+ system software. Details updates, bug fixes, and release notes for versions 1.20, 1.10, and 1.00.

lang:i-klngon score:14 filesize: 91.76 K page\_count: 1 document date: 2025-01-28

<b>MS-50G+ System Software Version History</b>	
You can always download the latest system software for free on the web site shown below. <a href="https://zoomcorp.com/">https://zoomcorp.com/</a>	
<b>Version 1.40</b>	
Release to fix the following issues in January 2020	
1. Control does not possible using the M-VAVE CHOCOLATE PLUS MIDI controller.	
<b>Version 1.30</b>	
Release to add the following functions and fix the following issues in August 2020	
■ Added/improved functions	
1. A USB MIDI function has been added.	
2. The USB C-CONNECT Screen has been improved.	
■ Fixed issues	
1. Fixing several sometimes occur when switching patch memories.	
2. Other minor issues have been fixed.	
<b>Version 1.10</b>	
■ Released as mass production in November 2020	

[ZOOM MS-50G+ System Software Version History](#)

Official version history for the ZOOM MS-50G+ system software, detailing updates, fixes, and improvements for various firmware versions.

lang:en score:14 filesize: 111.62 K page\_count: 1 document date: 2025-01-28

Page 1 of 31 Report No.: UNIA24081919ER-61	
<b>FCC RADIO TEST REPORT</b>	
<b>FCC ID: 2ARCP-CHOCOLATEPLUS</b>	
<b>Sample:</b> Wireless MIDI Controller	
<b>Trade Mark:</b> M-VAVE, Leo Jaymz, Yuimer, FESLEY, AZOR, Btuty, CASON, OCTAVE, EROK	
<b>Main Model:</b> CHOCOLATE PLUS	
<b>Additional Model:</b> chocolate, ChocII	
<b>Report No.:</b> UNIA24081919ER-61	
<b>Prepared for</b>	
Sinco Intelligent Technology Co., Ltd.	
Workshop D-2, Assembly Workshop, North Airport Road, Hongqi Town, Jinshan District, Zhuhai, China	
<b>Prepared by</b>	
Shenzhen United Testing Technology Co., Ltd.	
D1818D481, No. 107, Kaicheng High Tech Park, Taoyuan Community, Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China	

[\[pdf\] Test Report](#)

Measurement Report 399 Kent Nei Test report Sinco Intelligent Technology Co Ltd CHOCOLATEPLUS 2ARCP 2ARCPCHOCOLATEPLUS chocolateplus

Page 1 of 31 Report No.: UNIA24081919ER-61 FCC RADIO TEST REPORT FCC ID: 2ARCP-CHOCOLATEPLUS Sample : Wireless MIDI Controller Trade Mark : M-VAVE, Leo Jaymz, Yuimer, FESLEY, AZOR, Btuty, CASON, OCTAVE, EROK Main Model : **CHOCOLATE PLUS** Additional Model : chocolate, Choc Report No. : UNIA24081919ER...

lang:en score:14 filesize: 3.13 M page\_count: 31 document date: 2024-09-06

Project No.: ZKT24102619835E Page 1 of 33	
<b>FCC TEST REPORT</b>	
<b>FCC ID: 2ARCP-CHOCOLATE</b>	
Report Number:	ZKT24102619835E
Date of Test:	Nov. 20, 2024 ~ Jan. 10, 2025
Date of Issue:	Jan. 16, 2025
Total number of pages:	33
Test Result:	PASS
Testing Laboratory:	Shenzhen ZKT Technology Co., Ltd.
Address:	1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 157th, 158th, 159th, 160th, 161st, 162nd, 163rd, 164th, 165th, 166th, 167th, 168th, 169th, 170th, 171st, 172nd, 173rd, 174th, 175th, 176th, 177th, 178th, 179th, 180th, 181st, 182nd, 183rd, 184th, 185th, 186th, 187th, 188th, 189th, 190th, 191st, 192nd, 193rd, 194th, 195th, 196th, 197th, 198th, 199th, 200th, 201st, 202nd, 203rd, 204th, 205th, 206th, 207th, 208th, 209th, 210th, 211st, 212nd, 213th, 214th, 215th, 216th, 217th, 218th, 219th, 220th, 221st, 222nd, 223rd, 224th, 225th, 226th, 227th, 228th, 229th, 230th, 231st, 232nd, 233rd, 234th, 235th, 236th, 237th, 238th, 239th, 240th, 241st, 242nd, 243rd, 244th, 245th, 246th, 247th, 248th, 249th, 250th, 251st, 252nd, 253rd, 254th, 255th, 256th, 257th, 258th, 259th, 260th, 261st, 262nd, 263rd, 264th, 265th, 266th, 267th, 268th, 269th, 270th, 271st, 272nd, 273rd, 274th, 275th, 276th, 277th, 278th, 279th, 280th, 281st, 282nd, 283rd, 284th, 285th, 286th, 287th, 288th, 289th, 290th, 291st, 292nd, 293rd, 294th, 295th, 296th, 297th, 298th, 299th, 300th, 301st, 302nd, 303rd, 304th, 305th, 306th, 307th, 308th, 309th, 310th, 311st, 312nd, 313th, 314th, 315th, 316th, 317th, 318th, 319th, 320th, 321st, 322nd, 323rd, 324th, 325th, 326th, 327th, 328th, 329th, 330th, 331st, 332nd, 333rd, 334th, 335th, 336th, 337th, 338th, 339th, 340th, 341st, 342nd, 343rd, 344th, 345th, 346th, 347th, 348th, 349th, 350th, 351st, 352nd, 353rd, 354th, 355th, 356th, 357th, 358th, 359th, 360th, 361st, 362nd, 363rd, 364th, 365th, 366th, 367th, 368th, 369th, 370th, 371st, 372nd, 373rd, 374th, 375th, 376th, 377th, 378th, 379th, 380th, 381st, 382nd, 383rd, 384th, 385th, 386th, 387th, 388th, 389th, 390th, 391st, 392nd, 393rd, 394th, 395th, 396th, 397th, 398th, 399th, 400th, 401st, 402nd, 403rd, 404th, 405th, 406th, 407th, 408th, 409th, 410th, 411st, 412nd, 413th, 414th, 415th, 416th, 417th, 418th, 419th, 420th, 421st, 422nd, 423rd, 424th, 425th, 426th, 427th, 428th, 429th, 430th, 431st, 432nd, 433rd, 434th, 435th, 436th, 437th, 438th, 439th, 440th, 441st, 442nd, 443rd, 444th, 445th, 446th, 447th, 448th, 449th, 450th, 451st, 452nd, 453rd, 454th, 455th, 456th, 457th, 458th, 459th, 460th, 461st, 462nd, 463rd, 464th, 465th, 466th, 467th, 468th, 469th, 470th, 471st, 472nd, 473rd, 474th, 475th, 476th, 477th, 478th, 479th, 480th, 481st, 482nd, 483rd, 484th, 485th, 486th, 487th, 488th, 489th, 490th, 491st, 492nd, 493rd, 494th, 495th, 496th, 497th, 498th, 499th, 500th, 501st, 502nd, 503rd, 504th, 505th, 506th, 507th, 508th, 509th, 510th, 511st, 512nd, 513th, 514th, 515th, 516th, 517th, 518th, 519th, 520th, 521st, 522nd, 523rd, 524th, 525th, 526th, 527th, 528th, 529th, 530th, 531st, 532nd, 533rd, 534th, 535th, 536th, 537th, 538th, 539th, 540th, 541st, 542nd, 543rd, 544th, 545th, 546th, 547th, 548th, 549th, 550th, 551st, 552nd, 553rd, 554th, 555th, 556th, 557th, 558th, 559th, 560th, 561st, 562nd, 563rd, 564th, 565th, 566th, 567th, 568th, 569th, 570th, 571st, 572nd, 573rd, 574th, 575th, 576th, 577th, 578th, 579th, 580th, 581st, 582nd, 583rd, 584th, 585th, 586th, 587th, 588th, 589th, 590th, 591st, 592nd, 593rd, 594th, 595th, 596th, 597th, 598th, 599th, 600th, 601st, 602nd, 603rd, 604th, 605th, 606th, 607th, 608th, 609th, 610th, 611st, 612nd, 613th, 614th, 615th, 616th, 617th, 618th, 619th, 620th, 621st, 622nd, 623rd, 624th, 625th, 626th, 627th, 628th, 629th, 630th, 631st, 632nd, 633rd, 634th, 635th, 636th, 637th, 638th, 639th, 640th, 641st, 642nd, 643rd, 644th, 645th, 646th, 647th, 648th, 649th, 650th, 651st, 652nd, 653rd, 654th, 655th, 656th, 657th, 658th, 659th, 660th, 661st, 662nd, 663rd, 664th, 665th, 666th, 667th, 668th, 669th, 670th, 671st, 672nd, 673rd, 674th, 675th, 676th, 677th, 678th, 679th, 680th, 681st, 682nd, 683rd, 684th, 685th, 686th, 687th, 688th, 689th, 690th, 691st, 692nd, 693rd, 694th, 695th, 696th, 697th, 698th, 699th, 700th, 701st, 702nd, 703rd, 704th, 705th, 706th, 707th, 708th, 709th, 710th, 711st, 712nd, 713th, 714th, 715th, 716th, 717th, 718th, 719th, 720th, 721st, 722nd, 723rd, 724th, 725th, 726th, 727th, 728th, 729th, 730th, 731st, 732nd, 733rd, 734th, 735th, 736th, 737th, 738th, 739th, 740th, 741st, 742nd, 743rd, 744th, 745th, 746th, 747th, 748th, 749th, 750th, 751st, 752nd, 753rd, 754th, 755th, 756th, 757th, 758th, 759th, 760th, 761st, 762nd, 763rd, 764th, 765th, 766th, 767th, 768th, 769th, 770th, 771st, 772nd, 773rd, 774th, 775th, 776th, 777th, 778th, 779th, 780th, 781st, 782nd, 783rd, 784th, 785th, 786th, 787th, 788th, 789th, 790th, 791st, 792nd, 793rd, 794th, 795th, 796th, 797th, 798th, 799th, 800th, 801st, 802nd, 803rd, 804th, 805th, 806th, 807th, 808th, 809th, 810th, 811st, 812nd, 813th, 814th, 815th, 816th, 817th, 818th, 819th, 820th, 821st, 822nd, 823rd, 824th, 825th, 826th, 827th, 828th, 829th, 830th, 831st, 832nd, 833rd, 834th, 835th, 836th, 837th, 838th, 839th, 840th, 841st, 842nd, 843rd, 844th, 845th, 846th, 847th, 848th, 849th, 850th, 851st, 852nd, 853rd, 854th, 855th, 856th, 857th, 858th, 859th, 860th, 861st, 862nd, 863rd, 864th, 865th, 866th, 867th, 868th, 869th, 870th, 871st, 872nd, 873rd, 874th, 875th, 876th, 877th, 878th, 879th, 880th, 881st, 882nd, 883rd, 884th, 885th, 886th, 887th, 888th, 889th, 890th, 891st, 892nd, 893rd, 894th, 895th, 896th, 897th, 898th, 899th, 900th, 901st, 902nd, 903rd, 904th, 905th, 906th, 907th, 908th, 909th, 910th, 911st, 912nd, 913th, 914th, 915th, 916th, 917th, 918th, 919th, 920th, 921st, 922nd, 923rd, 924th, 925th, 926th, 927th, 928th, 929th, 930th, 931st, 932nd, 933rd, 934th, 935th, 936th, 937th, 938th, 939th, 940th, 941st, 942nd, 943rd, 944th, 945th, 946th, 947th, 948th, 949th, 950th, 951st, 952nd, 953rd, 954th, 955th, 956th, 957th, 958th, 959th, 960th, 961st, 962nd, 963rd, 964th, 965th, 966th, 967th, 968th, 969th, 970th, 971st, 972nd, 973rd, 974th, 975th, 976th, 977th, 978th, 979th, 980th, 981st, 982nd, 983rd, 984th, 985th, 986th, 987th, 988th, 989th, 990th, 991st, 992nd, 993rd, 994th, 995th, 996th, 997th, 998th, 999th, 1000th, 1001st, 1002nd, 1003rd, 1004th, 1005th, 1006th, 1007th, 1008th, 1009th, 1010th, 1011st, 1012nd, 1013th, 1014th, 1015th, 1016th, 1017th, 1018th, 1019th, 1020th, 1021st, 1022nd, 1023rd, 1024th, 1025th, 1026th, 1027th, 1028th, 1029th, 1030th, 1031st, 1032nd, 1033rd, 1034th, 1035th, 1036th, 1037th, 1038th, 1039th, 1040th, 1041st, 1042nd, 1043rd, 1044th, 1045th, 1046th, 1047th, 1048th, 1049th, 1050th, 1051st, 1052nd, 1053rd, 1054th, 1055th, 1056th, 1057th, 1058th, 1059th, 1060th, 1061st, 1062nd, 1063rd, 1064th, 1065th, 1066th, 1067th, 1068th, 1069th, 1070th, 1071st, 1072nd, 1073rd, 1074th, 1075th, 1076th, 1077th, 1078th, 1079th, 1080th, 1081st, 1082nd, 1083rd, 1084th, 1085th, 1086th, 1087th, 1088th, 1089th, 1090th, 1091st, 1092nd, 1093rd, 1094th, 1095th, 1096th, 1097th, 1098th, 1099th, 1100th, 1101st, 1102nd, 1103rd, 1104th, 1105th, 1106th, 1107th, 1108th, 1109th, 1110th, 1111st, 1112nd, 1113th, 1114th, 1115th, 1116th, 1117th, 1118th, 1119th, 1120th, 1121st, 1122nd, 1123rd, 1124th, 1125th, 1126th, 1127th, 1128th, 1129th, 1130th, 1131st, 1132nd, 1133rd, 1134th, 1135th, 1136th, 1137th, 1138th, 1139th, 1140th, 1141st, 1142nd, 1143rd, 1144th, 1145th, 1146th, 1147th, 1148th, 1149th, 1150th, 1151st, 1152nd, 1153rd, 1154th, 1155th, 1156th, 1157th, 1158th, 1159th, 1160th, 1161st, 1162nd, 1163rd, 1164th, 1165th, 1166th, 1167th, 1168th, 1169th, 1170th, 1171st, 1172nd, 1173rd, 1174th, 1175th, 1176th, 1177th, 1178th, 1179th, 1180th, 1181st, 1182nd, 1183rd, 1184th, 1185th, 1186th, 1187th, 1188th, 1189th, 1190th, 1191st, 1192nd, 1193rd, 1194th, 1195th, 1196th, 1197th, 1198th, 1199th, 1200th, 1201st, 1202nd, 1203rd, 1204th, 1205th, 1206th, 1207th, 1208th, 1209th, 1210th, 1211st, 1212nd, 1213th, 1214th, 1215th, 1216th, 1217th, 1218th, 1219th, 1220th, 1221st, 1222nd, 1223rd, 1224th, 1225th, 1226th, 1227th, 1228th, 1229th, 1230th, 1231st, 1232nd, 1233rd, 1234th, 1235th, 1236th, 1237th, 1238th, 1239th, 1240th, 1241st, 1242nd, 1243rd, 1244th, 1245th, 1246th, 1247th, 1248th, 1249th, 1250th, 1251st, 1252nd, 1253rd, 1254th, 1255th, 1256th, 1257th, 1258th, 1259th, 1260th, 1261st, 1262nd, 1263rd, 1264th, 1265th, 1266th, 1267th, 1268th, 1269th, 1270th, 1271st, 1272nd, 1273rd, 1274th, 1275th, 1276th, 1277th, 1278th, 1279th, 1280th, 1281st, 1282nd, 1283rd, 1284th, 1285th, 1286th, 1287th, 1288th, 1289th, 1290th, 1291st, 1292nd, 1293rd, 1294th, 1295th, 1296th, 1297th, 1298th, 1299th, 1300th, 1301st, 1302nd, 1303rd, 1304th, 1305th, 1306th, 1307th, 1308th, 1309th, 1310th, 1311st, 1312nd, 1313th, 1314th, 1315th, 1316th, 1317th, 1318th, 1319th, 1320th, 1321st, 1322nd, 1323rd, 1324th, 1325th, 1326th, 1327th, 1328th, 1329th, 1330th, 1331st, 1332nd, 1333rd, 1334th, 1335th, 1336th, 1337th, 1338th, 1339th, 1340th, 1341st, 1342nd, 1343rd, 1344th, 1345th, 1346th, 1347th, 1348th, 1349th, 1350th, 1351st, 1352nd, 1353rd, 1354th, 1355th, 1356th, 1357th, 1358th, 1359th, 1360th, 1361st, 1362nd, 1363rd, 1364th, 1365th, 1366th, 1367th, 1368th, 1369th, 1370th, 1371st, 1372nd, 1373rd, 1374th, 1375th, 1376th, 1377th, 1378th, 1379th, 1380th, 1381st, 1382nd, 1383rd, 1384th, 1385th, 1386th, 1387th, 1388th, 1389th, 1390th, 1391st, 1392nd, 1393rd, 1394th, 1395th, 1396th, 1397th, 1398th, 1399th, 1400th, 1401st, 1402nd, 1403rd, 1404th, 1405th, 1406th, 1407th, 1408th, 1409th, 1410th, 1411st, 1412nd, 1413th, 1414th, 1415th, 1416th, 1417th, 1418th, 1419th, 1420th, 1421st, 1422nd, 1423rd, 1424th, 1425th, 1426th, 1427th, 1428th, 1429th, 1430th, 1431st, 1432nd, 1433rd, 1434th, 1435th, 1436th, 1437th, 1438th, 1439th, 1440th, 1441st, 1442nd, 1443rd, 1444th, 1445th, 1446th, 1447th, 1448th, 1449th, 1450th, 1451st, 1452nd, 1453rd, 1454th, 1455th, 1456th, 1457th, 1458th, 1459th, 1460th, 1461st, 1462nd, 1463rd, 1464th, 1465th, 1466th, 1467th, 1468th, 1469th, 1470th, 1471st, 1472nd, 1473rd, 1474th, 1475th, 1476th, 1477th, 1478th, 1479th, 1480th, 1481st, 1482nd, 1483rd, 1484th, 1485th, 1486th, 1487th, 1488th, 1489th, 1490th, 1491st, 1492nd, 1493rd, 1494th, 1495th, 1496th, 1497th, 1498th, 1499th, 1500th, 1501st, 1502nd, 1503rd, 1504th, 1505th, 1506th, 1507th, 1508th, 1509th, 1510th, 1511st, 1512nd, 1513th, 1514th, 1515th, 1516th, 1517th, 1518th, 1519th, 1520th, 1521st, 1522nd, 1523rd, 1524th, 1525th, 1526th, 1527th, 1528th, 1529th, 1530th, 1531st, 1532nd, 1533rd, 1534th, 1535th, 1536th, 1537th, 1538th, 1539th, 1540th, 1541st, 1542nd, 1543rd, 1544th, 1545th, 1546th, 1547th, 1548th, 1549th, 1550th, 1551st, 1552nd, 1553rd, 1554th, 1555th, 1556th, 1557th, 1558th, 1559th, 1560th, 1561st, 1562nd, 1563rd, 1564th, 1565th, 1566th, 1567th, 1568th, 1569th, 1570th, 1571st, 1572nd, 1573rd, 1574th, 1575th, 1576th, 1577th, 1578th, 1579th, 1580th, 1581st, 1582nd, 1583rd, 1584th, 1585th, 1586th, 1587th, 1588th, 1589th, 1590th, 1591st, 1592nd, 1593rd, 1594th, 1595th, 1596th, 1597th, 1598th, 1599th, 1600th, 1601st, 1602nd, 1603rd, 1604th, 1605th, 1606th, 1607th, 1608th, 1609th, 1610th, 1611st, 1612nd, 1613th, 1614th, 1615th, 1616th, 1617th, 1618th, 1619th, 1620th, 1621st, 1622nd, 1623rd, 1624th, 1625th, 1626th, 1627th, 1628th, 1629th, 1630th, 1631st, 1632nd, 163