PARADOX ⋀

CM1M
Chime and Sound Player

INSTALLATION MANUAL

Introduction

The Paradox **CM1M** chime is a versatile audio player that indicates system events and zone opening with different tunes. It communicates with the Paradox M systems using 2-way wireless communication, featuring the latest Gaussian Frequency Shift Keying (GFSK) technology with frequency and encryption hopping. This ensures superior wireless range, enhanced encryption, supervision, and reliability. It integrates seamlessly with the Paradox M system to provide an audible chime when specific events occur, such as door openings or system arming/disarming.
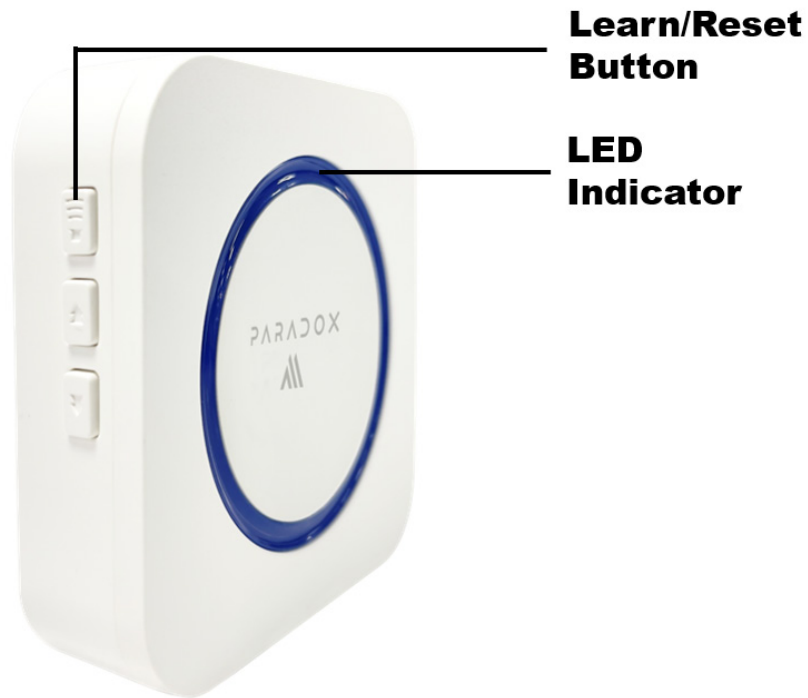

Quick Installation - Experienced Installers

To install CM1M:

1. Plug in the CM1M to a power socket.
2. Pair CM1M with the console (Using the BlueEye application):
   - When in the **Hardware** tab, tap **+** on the top-right of the page >**Auto learn devices**.
     NOTE: *Press the **Learn** button on the CM1M for instant pairing.*
3. Configure CM1M (Using the BlueEye application):
   - When in the **Hardware** tab, tap CM1M from the device list > Enter the necessary details > **Save**.

Components of CM1M

The following figure displays the components of CM1M.

Components of CM1M

NOTE: *The additional two volume buttons on the chime are non-functional and do not perform any specific tasks.*

Installing CM1M

Plug the CM1M into the power socket. The LED blinks up to 10 times.

Pairing CM1M with the Wireless M Console

The pairing and configuration settings of CM1M are managed through the BlueEye application.
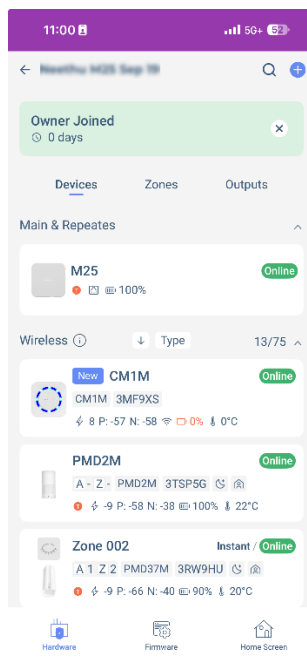
Prerequisites

You must ensure the following before pairing:
1. The CM1M is within the range of the console.
2. The BlueEye application is installed on your mobile and connected to the site.
3. The M console is powered on (Paradox logo color - White, Red, or Green).

Pairing CM1M

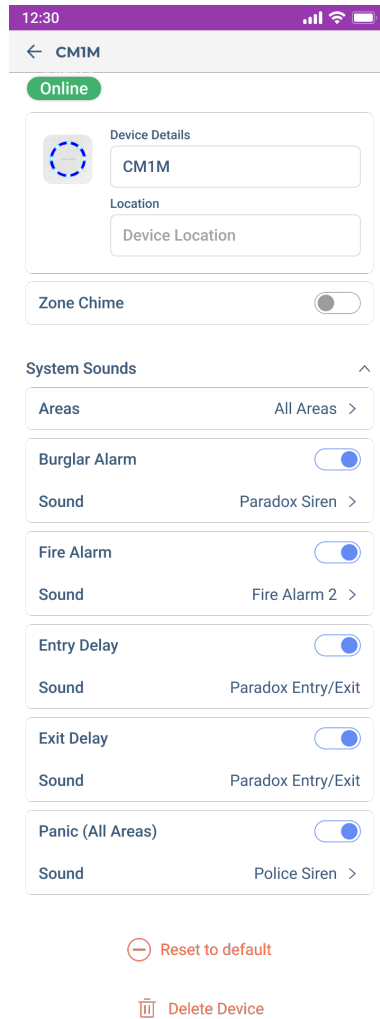To pair the CM1M with the wireless console after activating it:
1. In the BlueEye application, when in the **Hardware** tab, tap **+** on the top-right of the page, and then tap **Auto learn devices**.
2. Press the **Learn** button on the CM1M for immediate pairing.
   The device will appear at the top of the device list with a *new* tag and voice announcements.

Configuring the CM1M

To configure the CM1M settings:

1. When in the **Hardware** tab, tap **CM1M** from the device list if the device is already paired.
2. On the page that opens, enter the necessary details for the parameters and then tap **Save**. For details about each parameter displayed on the page, see Table 1.

The following table lists the parameters displayed for configuring the CM1M, along with their descriptions.

Table 1

Parameter	Description
Zone Chime	Enables or disables the sound for specific zone chimes. Once enabled, you can select a preferred tone from the list of available options.
Areas	Displays the areas assigned to the chime.
Burglar Alarm	Enables or disables the burglar alarm sound. Once enabled, a tone can be selected from the list of available options.
Fire Alarm	Enables or disables the fire alarm sound. Once enabled, a tone can be selected from the list of available options.
Entry Delay	Adjusts the sound notification for entry delays.
Exit Delay	Adjusts the sound notification for exit delays.
Panic (All Areas)	Configures the sound notification for panic events across all areas.
Reset to Default	Resets the device to the factory default settings. **NOTE**: *Only an installer can reset the device.*
Delete Device	Deletes the device from the system completely. After deletion, the system generates a push notification only if the owner registration is complete, not during installation. **NOTE**: *Only an installer can delete the device.*

Resetting

Press and hold the **Reset** button for 8 seconds to reset the device to its default settings. The reset is indicated by the chime LED flashing with a beep sound.

Upgrading Firmware

When the firmware upgrade is in progress, the Paradox logo on the device displays steady blue.
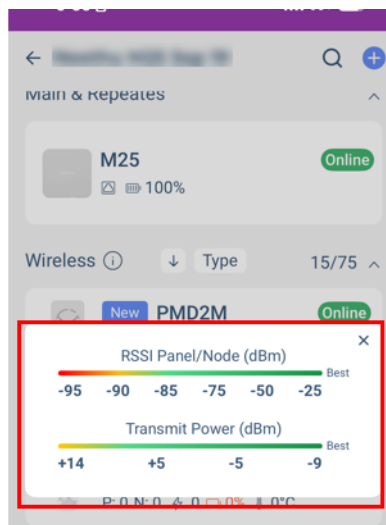
To upgrade the firmware:
1. In the **Hardware** tab, tap on the device > **Check for Upgrade**.
2. If an upgrade is available, tap **Upgrade** when prompted.
   The process may take a few minutes. Keep track of the progress in the BlueEye application to ensure that the upgrade is completed successfully. Both the Installers and owners can perform the upgrade.
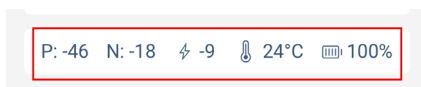
Signal Strength and Transmit Power Monitoring

The BlueEye application provides insights into each device's received signal strength and transmission power to optimize performance.

To view the RSSI and transmit power range:
1. When in the **Hardware tab**, tap the ⓘ icon next to the **Wireless** tab.
   A pop-up window with the RSSI and transmit power range is displayed.
2. Maximum power transmitted by CM1M:
   - 868 MHz: +14 dBm
   - 914 MHz: +22 dBm

Tap on any listed device to view signal strength and additional device metrics. The following parameters are displayed for each device:

- **P** - Received signal strength at the panel
- **N** - Received signal strength at the device
- ⚡ - Transmit power of the device.

- 🌡 - Current temperature reading of the device.

A higher P and N value indicates stronger and clearer communication between the console and the device.

- If **P** is low, the console struggles to receive signals from the device.
- If **N** is low, the device struggles to receive signals from the console.

NOTE: *Values below -93 with maximum Tx power are not recommended values, and RPT5M can be used to extend the range.*

Power transmission impacts only **P**:
- When **power transmission** increases, the **P** value at the console generally improves, as a stronger signal is sent.
- If the **P** value is good, the device can reduce its transmission power to save battery life.

Technical Specifications

The following table lists the technical specifications of CM1M along with their descriptions.
NOTE: *The specifications are subject to change without prior notice.*

Table 3

Specification	Description
Wireless type	GFSK two-way with frequency and encryption hopping
RF Frequency	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz range
RF power	868 MHz up to +14 dBm radiated, 914 MHz up to +22 dBm in permitted countries.
Number of Ringtones	Zone chime alarm tones: 6 Burglary alarm tones: 8 Fire alarm tones: 8 (same melodies as burglary alarm tones) Entry tone: 1 Exit tone: 1 (same as entry tone) Panic alarm tone: 8 (same melodies as burglary alarm tones)
Supervision time	20 minutes, 10 minutes, and 3 minutes
Working Voltage	AC110 ~260V, 50/60Hz
Working Temperature	-30°C to +70°C (-22°F to +158°F)
Colors	White
Installation Environment	Indoor
Dimensions	8.4W x 8.4H x 4.8D cm (3.3W x 3.3H x 1.9D in.)
Weight	82 g
Certification	CE, FCC

FCC Statements

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: 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 cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.

3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

WARNING – RF EXPOSURE COMPLIANCE: This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC ID: KDYCM1M
   IC: 2438A-CM1M

- This Class B digital apparatus complies with Canadian ICES-003.

IC Statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Warranty

For complete warranty information on this product, see the Limited Warranty Statement document, or contact your local Paradox distributor.

Patents

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