

M25

System Overview

Hybrid System Security, Video, Control and Access

The M25, a variant of the Paradox M Head units, is a versatile and powerful wireless/wired hybrid compact head unit. The wireless section uses Gaussian Frequency Shift Keying (GFSK) technology, offered in both 868 MHz and 914 MHz bands. It employs advanced frequency and encryption hopping to protect against unauthorized access, ensuring data security and an ultra-fast connection.

Powerful yet ultra-small and compact, the M25 is ideal for medium-sized homes, businesses, and large apartments. Its sleek design allows it to be installed anywhere, secured and hidden.

The M25 provides enhanced, trusted security with true direct-connect, ensuring it remains constantly online with supervised direct reporting, independent of the cloud or third-party points of failure. Its direct reporting supports up to four simultaneous supervised connections to IPC10 IP receivers. Unlike cloud-dependent systems, the M system's powerful communication enables direct monitoring without relying on the cloud, reducing potential points of failure.

The M25 includes powerful programmable output control, enabling activation through manual settings, scheduled events, temperature triggers, or system events. The system is expandable with M wireless, Ethernet, or hard-wired security devices. It also supports integration with video monitoring and verification, access control, and home automation (to be released in 2025).

The M25 utilizes fourth-generation cloud services with the Paradox identifier ecosystem for fast, reliable, and secure system access, together with the BlueEye mobile application, IPC10 receiver, and the Service Dealers/Companies Portal. The ecosystem verifies user identity with two-way authentication for increased security. The system offers ultra-fast and easy installation using a single RJ45 cable for both PoE and Ethernet, eliminating the need for a separate power supply or additional wiring, thereby saving valuable time and effort. Built-in Wi-Fi can be used

as the primary or backup channel, while LTE provides an additional communication channel for enhanced redundancy and reliability.

Wireless nodes or Ethernet extensions can be added using Paradox's powerful and intuitive auto-learn feature. For pre-installation preparation, installers can scan QR codes or manually enter the serial number, ensuring a fast and efficient installation process that saves valuable time.

Programming is powerful and simple, with a user-friendly interface and application-based configuration or PC software.

All wireless modules connected to the M25 console are fully supervised and upgradable either over the air (for wireless devices) or through Ethernet (for network devices).

The M25 is CE-certified and pending compliance with European Standard (EN) certifications such as EN 50131-1, EN 50131-3, EN 50131-6, EN 50131-10, EN 50136-1, EN 50136-2, Grade 2, and Class II.



Beauty and a Beast



HEAD UNIT / CONSOLE

M25 / M25^{LTE}

Head Unit / Console

Highlights

► **Extremely Versatile:**

Supports wireless, wired, and Ethernet expansions. All system devices, including wireless devices, are remotely upgradable. The system is fully scalable, allowing future upgrades to integrate video monitoring and access control. Supports easy backup and system restoration through the application, simplifying panel replacements.

► **Easy Installation:**

With one-wire Ethernet with PoE, fast auto-learn for wireless and Ethernet devices, and a user-friendly interface, the M25 is time-saving, easy, and simple to install and service.

► **Latest Wireless Technology:**

Using Gaussian Frequency Shift Keying (GFSK) technology with encryption and frequency hopping, the system ensures robust, secured communication and fast transmission, along with transmission power management for extended battery life.

► **Powerful Expandability:**

The M25 is designed to adapt and grow with your needs. Its seamless expansion, powered by PoE Ethernet, ensures hassle-free scalability. While fully wireless, the M25 also supports both wired and wireless expansions (for example, using ZX10M and PGM8M modules) and extended range with Ethernet repeaters. The complete system (available in the third quarter of 2025) will include video verification, access control, home automation, and more.

► **Enhanced Personal Security:**

With user roles such as Owner, Master, System User, Maintenance, and Guest, the Owner and Master retain complete control of the system. Other user roles can access the application for remote connections or access the system locally

via remotes/keypads. Supporting up to 128 users with assignable JPEG images makes identification easier and important with the M Series access control modules. The M25's 10 partitions and 75 wireless nodes make this compact system a piece of marvel and beauty. Installer access is monitored and requires pre-approval from the Owner or the Service Company. Each service entry by the installer is indicated to the Owner and Master via push notification.

► **Powerful Auto Arm/Disarm/PGM Process:**

The system provides an auto-arm feature on a no movement (all zones closed) timer within a schedule, and supports auto disarm, Sleep to Stay, and Stay to Disarm. For instance, it can be easily scheduled to set Stay arming at 19:00, Sleep arming at midnight, Sleep to Stay arming at 5:00 a.m., and Full Disarm at 07:00 a.m. all week or on selected days. Within each arming schedule, you can customize the status of PGMs to set shutters or lights to suit your preferences.

► **Enhanced Temperature Monitoring and Control:**

The M25 includes temperature monitoring with every wireless device, protecting valuables and sites from freezing or overheating by controlling PGMs, reporting to CMS, sending push notifications, and providing clear indications on the app's message center. For instance, in colder regions, a cold warning can be set at 80C, alerting users that heating is not functioning—protecting wine cellars from freezing or overheating, or enabling temperature monitoring in greenhouses to prevent frost or overheating damage. Heating and cooling PGMs can be easily configured.

► **User-Friendly Mobile App Control:**

Monitor and manage your security system from anywhere with the intuitive BlueEye mobile application. Always stay informed with instant notifications for any security breach or unusual activity.

Features

- ▶ Hybrid wireless console
- ▶ Security, Video Verification, Access Control, programmable outputs
- ▶ 3 communication channels - Ethernet, Wi-Fi, LTE
- ▶ PoE, 10W power consumption
- ▶ 10 partitions, 128 users, 100 zones, 128 remotes
- ▶ GFSK wireless, 914 MHz or 868 MHz, 75 nodes per system
- ▶ Auto-learn wireless and Ethernet devices
- ▶ Temperature monitoring and control
- ▶ Safe direct reporting to CMS up to 4 channels without cloud dependency
- ▶ User-friendly, simple, mobile application
- ▶ Certifications: CE, EN 50131-3, EN 50131-6, EN 50136-1, EN 50136-2, EN 50131-5-3, FCC 15.247 Grade 2, Class II

Technical Specifications

Power Supply	PoE, 10W max
Battery	3.7V Lithium-ion battery, 5000 mAh.
Battery Backup Time	26H on Ethernet, 24H on Wi-Fi, 20H on LTE
Ethernet/ Wi-Fi	Built-in Wi-Fi – 2.4 GHz B/G/N
LTE	Built-in (LTE Model), main channel, or backup.
Users	128; one owner, masters, users, guests, and maintenance.
BlueEye Users Access	Optional, enabled by owner or master per user
JPEGs for User and Partition	Yes, from the gallery or camera
Partitions	10
Bell Output	Only wireless
Total Zones	100
Remotes	128 maximum per system, up to four per user
Wireless Devices	75 per system
Adding Devices	Via auto-learn feature (wireless and Ethernet), QR scan, or manual serial number input for pre-programming
Wireless Repeaters	Maximum of 4 per system. Ethernet or wireless
Programmable Outputs	Up to 48 with wireless expanders; security levels include regular, restricted, or installer-only
PGM Activation	Controlled by manual activation, schedule, system events, sunset/sunrise, or temperature reading

PGM Status Verification	PGM status with zone verification and timer-based error display per PGM.
Ethernet Expansion Devices	Up to 45 total: repeaters, keypads, cameras, and access modules
Video Verification	Up to 16 cameras (available starting May 2025)
Access Control	Up to 16 doors (available starting July 2025)
Arming Options	Stay, Sleep, and Full Arm
Auto Arm	On schedule or no movement
Auto Disarm	On schedule, Sleep to Stay, Stay to Disarm
Security Events	1000
Disarmed Events	1000 (available starting May 2025)
Automation Events	1000 (available starting May 2025)
Access Events	7500 (available starting May 2025)
Wireless Frequency Range	868 (865.05 - 867.95) MHz or 914 (902.25 - 927.55) MHz; certain countries may have limited or different frequencies.
Modulation Type	GFSK with frequency and encryption hopping.
Wireless Transmission power	868 MHz band (+14 dBm), 914 MHz band (+22 dBm), coin battery devices limited to +14 dBm.
Installation	By registered installer with Paradox Company ID (PCI) from BlueEye or Service Company Portal.
Service Company Access	Permanent access or as granted by System Owner.
Service Company Lock	Available. Enables automatically when the Service Company subscribes to the Swan service.
Service Company Portal	Available for all registered Service Companies/Installers with Paradox Company ID (PCI).
Temperature Display and Control	Site and areas temperature display, temperature activation for PGM (cool or heat), custom alerts via push notification and BlueEye message center display.
Cloud Services	Paradox Swan 4G (subscription required)
Reporting	Up to four receivers, two channels with backup. Up to three transmission channels: Ethernet, Wi-Fi, and LTE.
Programming	Via BlueEye application or PC software
Operating Temperature	-25°C to +55°C (-13°F to 131°F) Battery charge disabled below -5°C and above +55°C internal temperature
Certifications	Battery charge disabled below -5°C and above +55°C internal temperature
Dimensions	12.4W x 12.4H x 3.55D cm (4.89W x 4.89H x 1.4D in.)
Weight	0.26 Kg

