

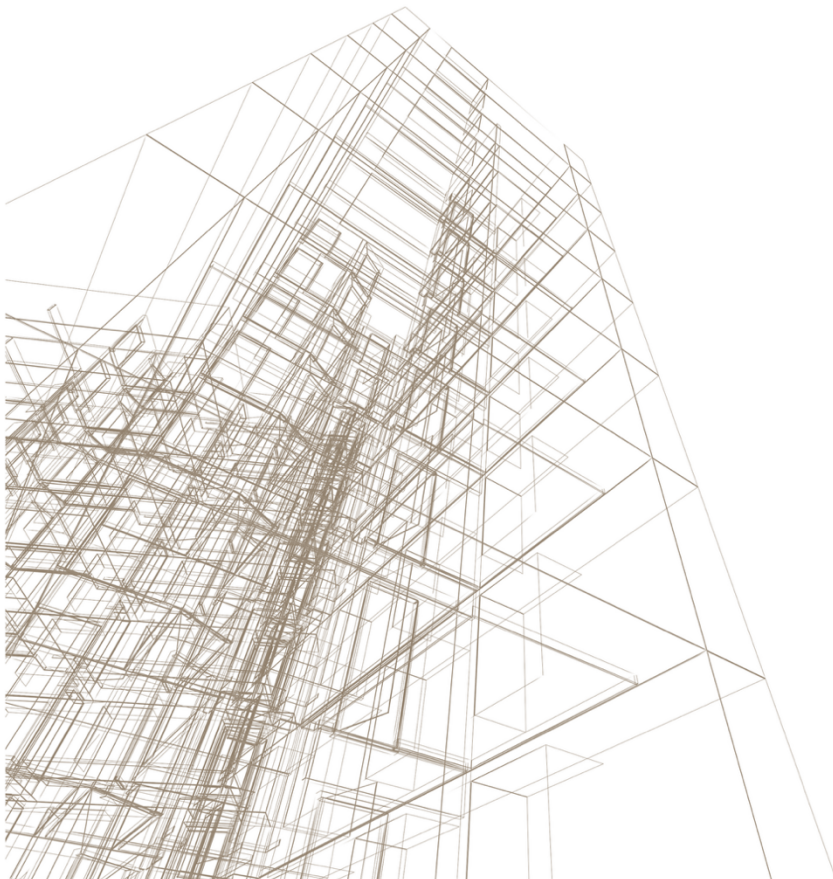
Technical Specification

NIGHT PLUS SYSTEM

#711

ALLUMINIUM ALLOY

Advanced Integrated Security and Home Automation System



1. General Description

The Night Plus System #711 represents the new generation of integrated security and home automation systems within the Metal Series, designed to provide advanced perimeter and environmental protection combined with intelligent property management.

The unit features a high-density, corrosion-resistant aluminium alloy structure with a compact, elegant design that is weatherproof and durable.

Through local data processing and encrypted cloud connectivity, the system guarantees an impenetrable level of security and uninterrupted operation even in the event of power outages or network interruptions.

2. Hardware Specifications

Parameter	Description
External Structure	Anodized Aluminium Alloy (Al 6061) with anti-oxidation treatment and satin finish
Main CPU	ARM Cortex Octa-Core 2.4 GHz processor – edge computing processing
RAM Memory	8 GB DDR5
Internal Storage	1 TB SSD with AES-256 encryption
Cloud Storage	Remote server with dedicated firewall and one-way access
Power Supply	12V DC / 24V DC with integrated UPS backup system
Average Power Consumption	38 W (active) / 9 W (standby)
Operating Temperature	-20°C / +60°C
Protection Rating	IP66 (resistant to water, dust, and impact)
Connectivity	Gigabit Ethernet / Wi-Fi 6 / 5G LTE / Bluetooth 5.2
Expansion Ports	4× USB 3.0, 2× RS-485, 1× HDMI, 1× SIM slot
Solar Power Support	Yes (optional with dedicated 12V panel)

3. Compatible Sensors and Modules

The system supports an unlimited number of sensors and IP or analog cameras, integrated via wired or wireless network.

It is fully compatible with standard protocols ONVIF, MQTT, Zigbee, Z-Wave, and KNX.

Module Type	Main Function
Perimeter IR Sensors	Detection of motion and unauthorized crossings
Magnetic Sensors	Door, window, and gate monitoring
Smart IP Cameras	IR night vision up to 60 m, AI motion detection
Environmental Microphones	Acoustic analysis and recognition of suspicious sound events
Environmental Sensors	Temperature, humidity, CO ₂ , pressure, vibration monitoring
Microwave Radar	Outdoor detection of presence and abnormal movements
Dual-Band RF Modules	128-channel scan for radio or mobile signal detection
Body Detection Sensors	GDPR-compliant body pattern recognition
Home Automation Modules	Control of lighting, climate, access, irrigation, and alarms

4. Software and Advanced Features

Artificial Intelligence and Predictive Analysis

- Automatic recognition of behavioral patterns and atypical movements
- Temporal data analysis and comparison with historical values
- Adaptive machine learning system to optimize event response

Perimeter and Flow Management

- Counting of vehicles and individuals along the perimeter
- Detection of repeated or suspicious movements
- Automatic alarms triggered by significant statistical variations

Communication and Interference Monitoring

- Detection of messaging, calls, and radio transmissions
- Signal analysis and recording across 128 dual-band channels
- Alerts on interference or abnormal use of mobile devices

Video Management and Recording

- Supports up to 64 simultaneous video streams (expandable)
- Automatic event recording and encrypted archiving
- “Ghost View” function for real-time monitoring on mobile devices without public IP exposure

5. Complete Home Automation Integration

- Compatible with all modules in the Metal Series
- Synchronization with Alexa, Google Home, and Home Assistant (via bridge)
- Customizable automatic security and comfort scenarios (e.g., light activation, shutter closure, notification dispatch)

6. Cybersecurity

- Proprietary firewall and end-to-end encryption on all communication channels
- Two-Factor Authentication (2FA) for user access
- Automatic firmware updates and patches via cloud
- Administrative access via encrypted hardware key (Token ID)
- No direct connection to local electrical or IT networks → full system isolation

7. User Interface and Management

- Control software: **Night Commander Suite** (Windows / Mac / iOS / Android)
- Intuitive dashboard with interactive property maps
- Real-time remote control via CPU, tablet, or smartphone
- Push notifications, email, or automated calls to:
 - Owner
 - Security personnel
 - Control centers / law enforcement

8. Options and Customizations

- Version with industrial modules and dual cloud storage
- Light version for small residential installations
- Custom finishes: graphite, titanium, silver, matte black
- Fixed or modular installation (pole / wall / rack mount)

9. Services and Support

- Custom site or network security analysis and design
- Certified installation and technical testing
- Staff training and 24/7 remote support
- Predictive maintenance via cloud
- 3-year warranty, extendable up to 7 years