SCARLET | TECH

Wireless Crane Camera System

HERCULES

Optimized Safety & Efficiency for Tower Cranes & Construction Worksites

2K QUAD HD

5G Wi-Fi

ONVIF

- Prevent Accidents & Enhance Efficiency
- Maximum 1K Ultra-Long Wireless Range
- Streaming, Recording, & Playback

- Real-Time Load View & Critical Surroundings
- Cloud-Connected Remote Surveillance
- Quick & Simple to Deploy

Introduction

Hercules is a long-range, IoT-based wireless camera system for crane safety and construction sites productivity. The system provides crane operators and safety officers a direct 2k video feed from anywhere on the cranes and worksites.

Ultra-Long Wireless Range &Flexible Installation. Compatible for Every Crane :
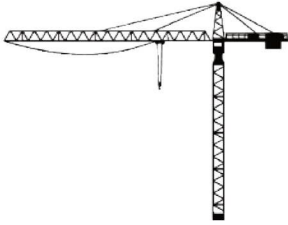
Tower Crane   **Mobile Crane**   **Crawler Crane**   **Gantry Crane**   **Luffing Crane**

Application

Instant Safe Load Verification   Worksite Surveillance   Low-Light Environment   Remote Management

Functions

- Eliminate blind spots accident & safe load monitoring
- Improve efficiency and communication with real-time audio-visual feed
- 2K QHD lens with Starlight enhancements for ultra-clear, full colored video in dark
- 128GB SD card video recording
- Streaming 4 channels video simultaneously on the multi-view monitor (optional add-on)
- 24/7 Cloud-connected live viewing & playback recording (with Scarlet NVR)

Framework

Optional

Remote

Site Office

Moible Device & PC

Tower Crane
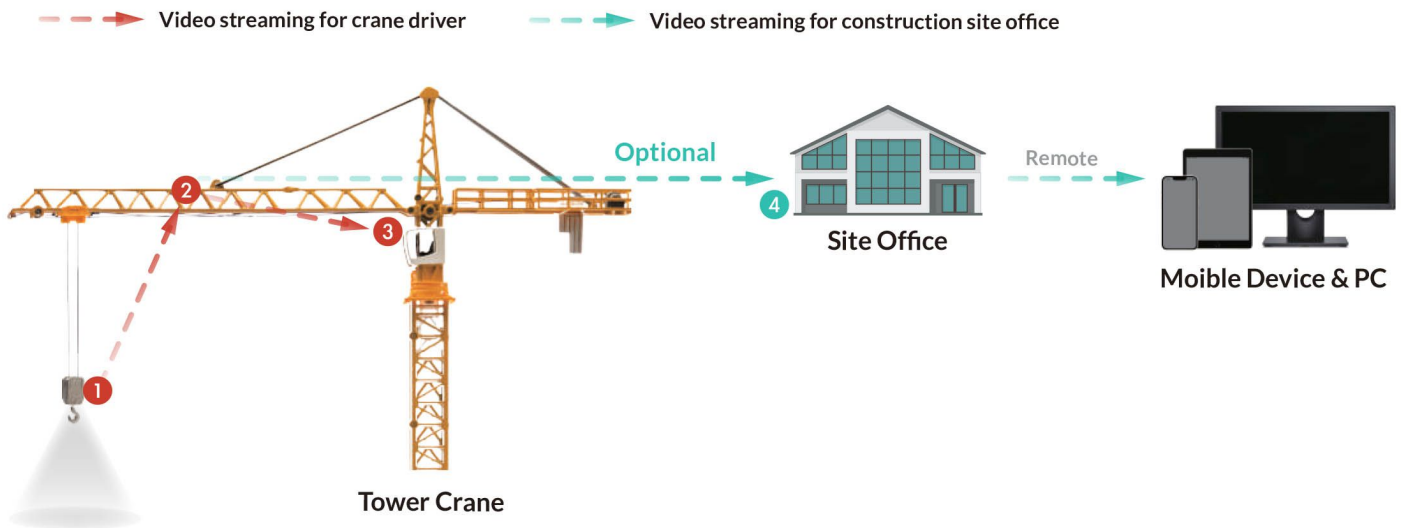
1 HOOK BLOCK

Wireless Hook Cam

- Easily deployed to the hook block for real-time load view
- 2K QHD, 3MP ultra-wide audio-visual feeds
- 128GB SD card recording capacity
- Starlight & defog enhancements for clear, full color video in low-light

Solar Panel Battery Pack

- Sustainable for more than 35 hours of camera work time
- Battery level indicated on the monitor
- Power Saving for up to 4 days of operation (working 8 hours daily)
- Fast & simple to install, remove and charge

Hook AP

- Transmit real-time camera footage to StreamLink Station
- WiFi 5G technology.

2 JIB

Ultra-Long StreamLink Station

- Extend communication range & bypass obstacles & with Industrial-leading WiFi 5G Ultra-long StreamLink technology
- Real-time, stable video via 802.11 a/c high-speed transmission

3 CABIN

Touch Monitor

- Operator live the load and critical surroundings
- Streaming up to 4 channels audio-visual feed simultaneously
- Administrator Account further support cameras control & playback
- Scaleable to maximum 3 Android tablets (optional)

Cabin AP

- Connected to StreamLink via Wi-Fi 5GHz high-speed technology
- Project 2K live audio-visual feed to the Monitor via Wi-Fi 2.4GHz

4 SITE OFFICE

Scarlet Network Video Recorder

- Monitoring worksite anytime, anywhere
- Streaming up to 9-channels at the same time
- 1TB HDD video storage (upgrade for 8TB)

Product List

Main Products

(1) Hook Camera (with Waterproof LAN Cable 1.2M)

(2) Hook AP

(3) Solar Panel Battery Pack

(4) StreamLink Station

(5) Cabin AP

(6) Android Tablet

Antennas

(7) 5 GHz Omnidirectional Antenna x 6pcs

(8) 2.4 GHz Omnidirectional Antenna x 1pc

Power Supply

(9) Power Cord 1.2M (Battery Pack to Hook AP)

(10) Three-core Power Cord 50M (StreamLink Station)

(11) Power Adapter and Power Cord (Cabin AP)

(12) Power Adapter & USB C to USB A Charging Cable (Android Tablet)

(13) Power Adapter and Power Cord (Battery Pack)

Installation Kit

(14) Android Tablet Holder with Clamp

(15) Cable Holder with D-ring & Magnet x4pcs

(16) Safety Rope with D-ring x4pcs

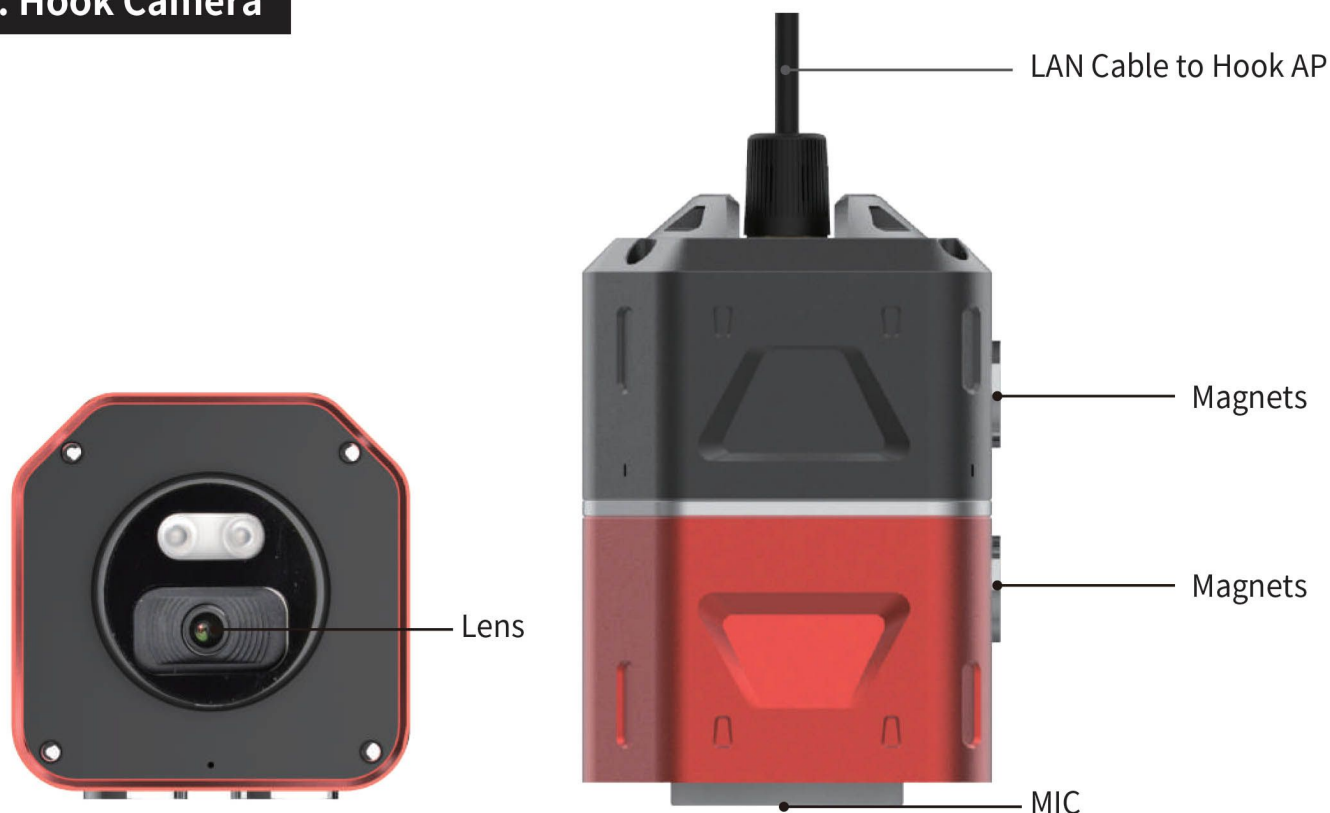## Optional Accessories

(17) Scarlet Multi-channel Network Video Recorder (1TB HD video storage)

(18) Android Tablet

(19) Hook Camera

(20) Customized POE Camera

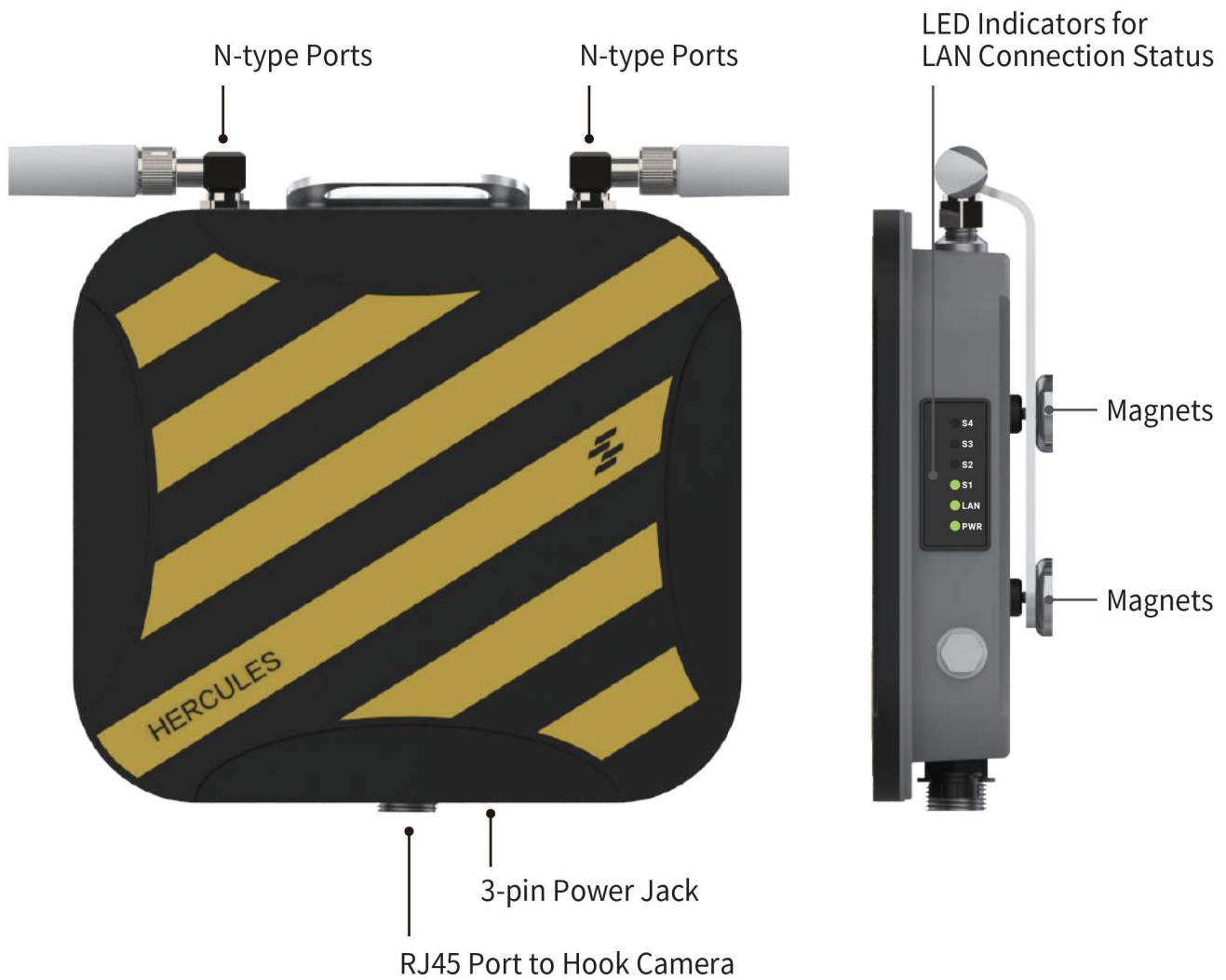(21) CCTV Surveillance System

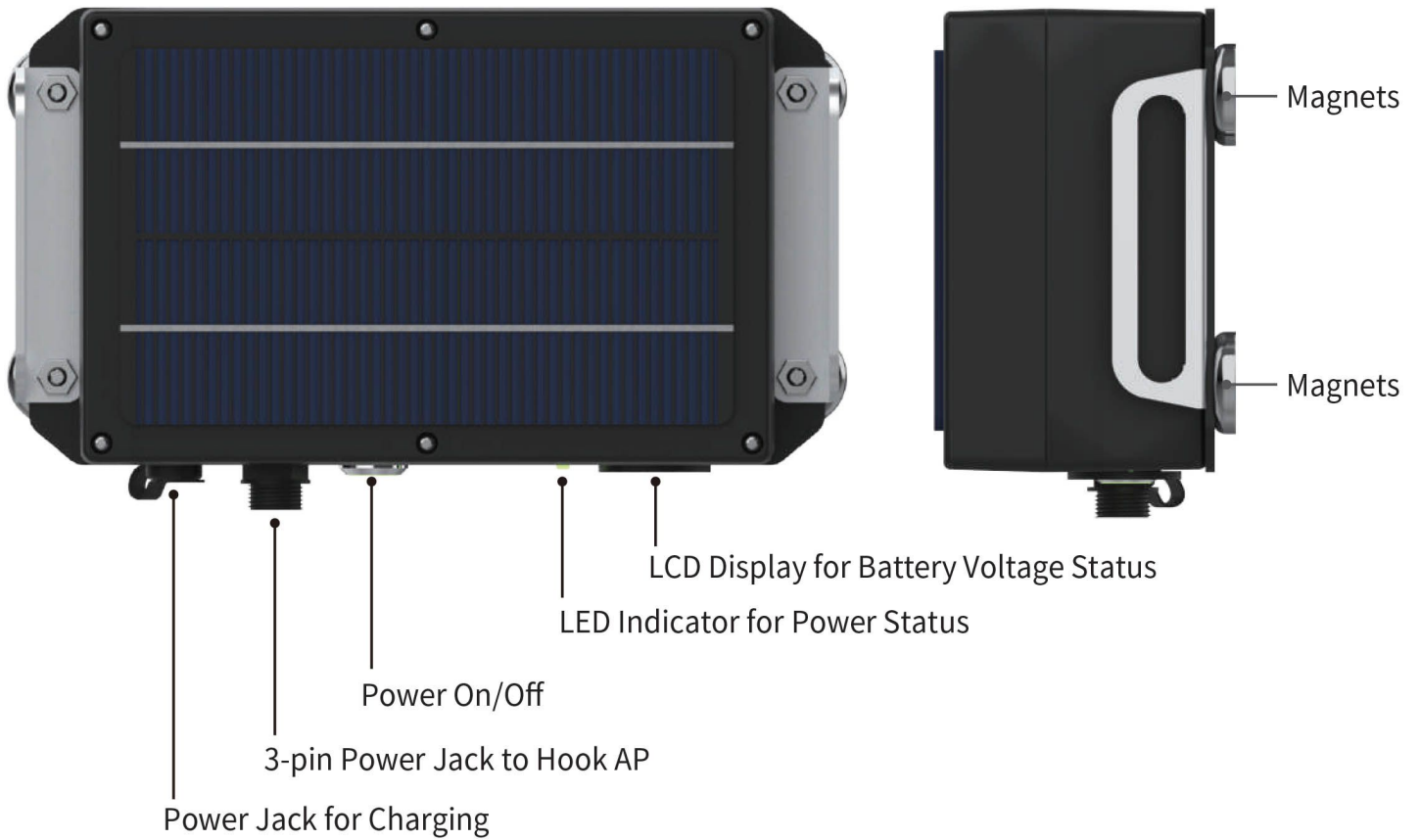(22) Spare Solar Panel Battery Pack

Product Specification

LAN Cable to Hook AP

Magnets

Magnets

Lens

MIC

Hook Camera	
Resolution & Pixels	"2K QHD 2304 x 1296, 3MP / HD 1280 x 720, 1MP"
Image Sensor	1/2.8" CMOS
Electronic Shutter	1/25s - 1/10,000s
Compression Standard	"H.265 / H.264 / MJPEG"
Angle of View	110° Ultra-wide angle
Night Vision	Starlight Color Night Vision
Defog	Digital Defog
MIC	Yes
Video Storage	120 hours (HD resolution)
API for Integration	ONVIF
Power Supply	DC 12V2A / POE
Waterproof	IP67
Installation	Mounting by magnets
Dimension	180 x 122 x 122 mm
Weight	2.5kg

2. Hook AP

N-type Ports

N-type Ports

LED Indicators for
LAN Connection Status

Magnets

S4
S3
S2
S1
LAN
PWR

Magnets

HERCULES

3-pin Power Jack

RJ45 Port to Hook Camera

Hook AP	
Wireless Technology	Wi-Fi 5GHz
Power Supply	DC 12V
Waterproof	IP67
Installation	Mounting by magnets
Dimension	265 x 265 x 82 mm
Weight	2.2kg

3. Battery Pack

Magnets

Magnets

LCD Display for Battery Voltage Status

LED Indicator for Power Status

Power On/Off

3-pin Power Jack to Hook AP

Power Jack for Charging

Battery Pack	
Battery Type	Molicel 26700 LiFePO4
Battery Volume	28000mAh
Working Hours	35+ hours
LED Indicator	Power status
Power Input	DC 14.3~14.6V2A (Charging by Power Charger)
Power Output	12V4A (Max)
Waterproof	IP67
Installation	Mounting by magnets
Dimension	272 x 146 x 91 mm
Weight	5kg

4. StreamLink Station

N-type Ports

N-type Ports

Magnets

Magnets

3-pin Power Jack

RJ45 Port for Configuration

LED Indicators for
LAN Connection Status

S4
S3
S2
S1
LAN
PWR
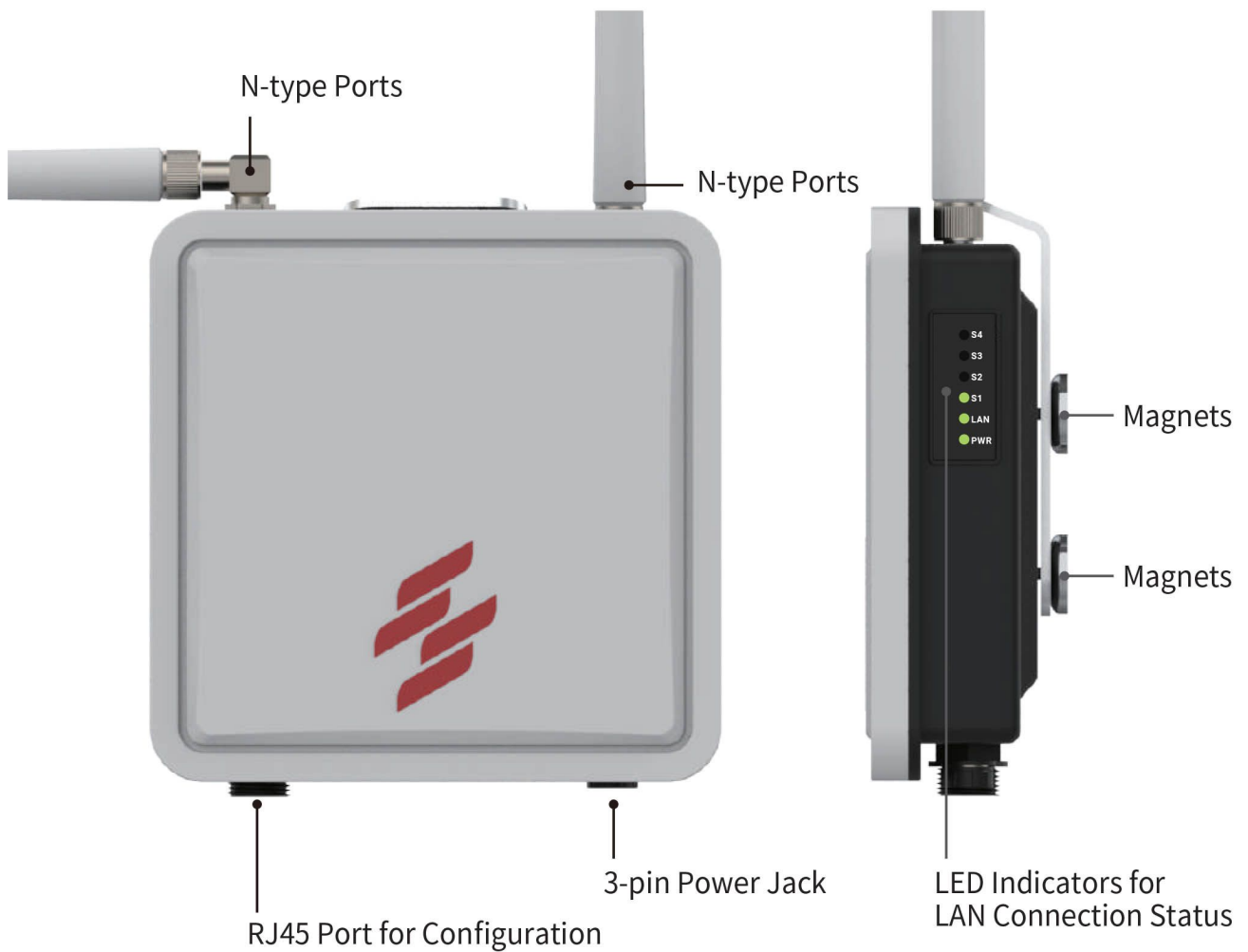
StreamLink Station	
Wireless Technology	Wi-Fi 5GHz
Power Supply	DC 24V
Waterproof	IP67
Installation	Mounting by magnets
Dimension	230 x 230 x 93 mm
Weight	1.1kg

5. Cabin AP

N-type Ports for 2.4GHz Antennas

N-type Ports for 5GHz Antennas

Power Jack

RJ45 Ports for PoE Cameras

S4
S3
S2
S1
LAN
PWR

LED Indicators for
LAN Connection Status
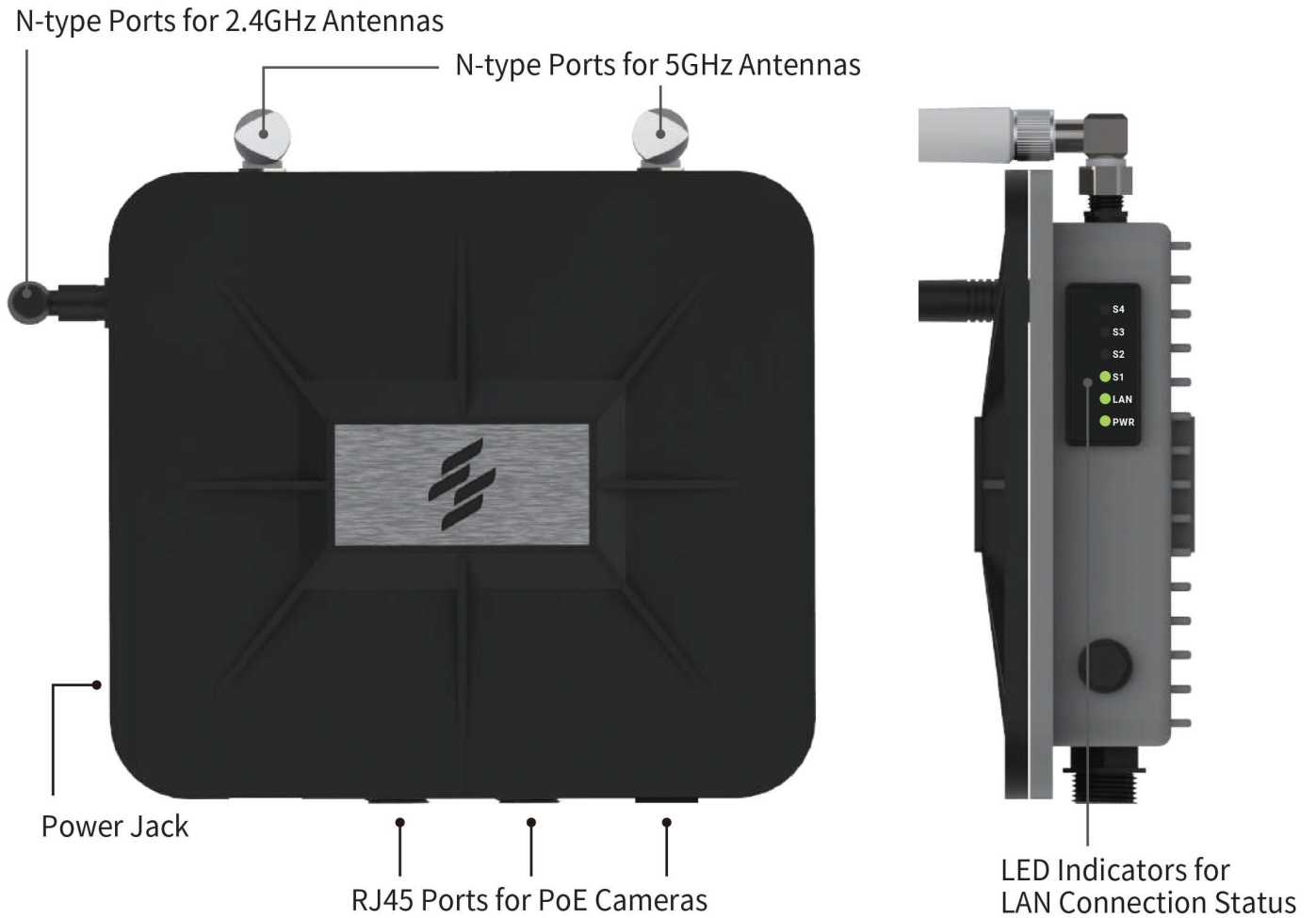
Cabin AP	
Wireless Technology	"Wi-Fi 5GHz / Wi-Fi 2.4GHz"
I/O port	Ethernet port x3 (for POE cameras)
Power Supply	DC 52V1.25 A
Installation	Mounting by magnets
Dimension	269 x 239 x 82 mm
Weightt	2.6kg

6. Android Tablet

USB Type-C Port for Charging

Power ON/OFF

Volume UP/DOWN

3/4" Screw Hole for Mounting Bracket
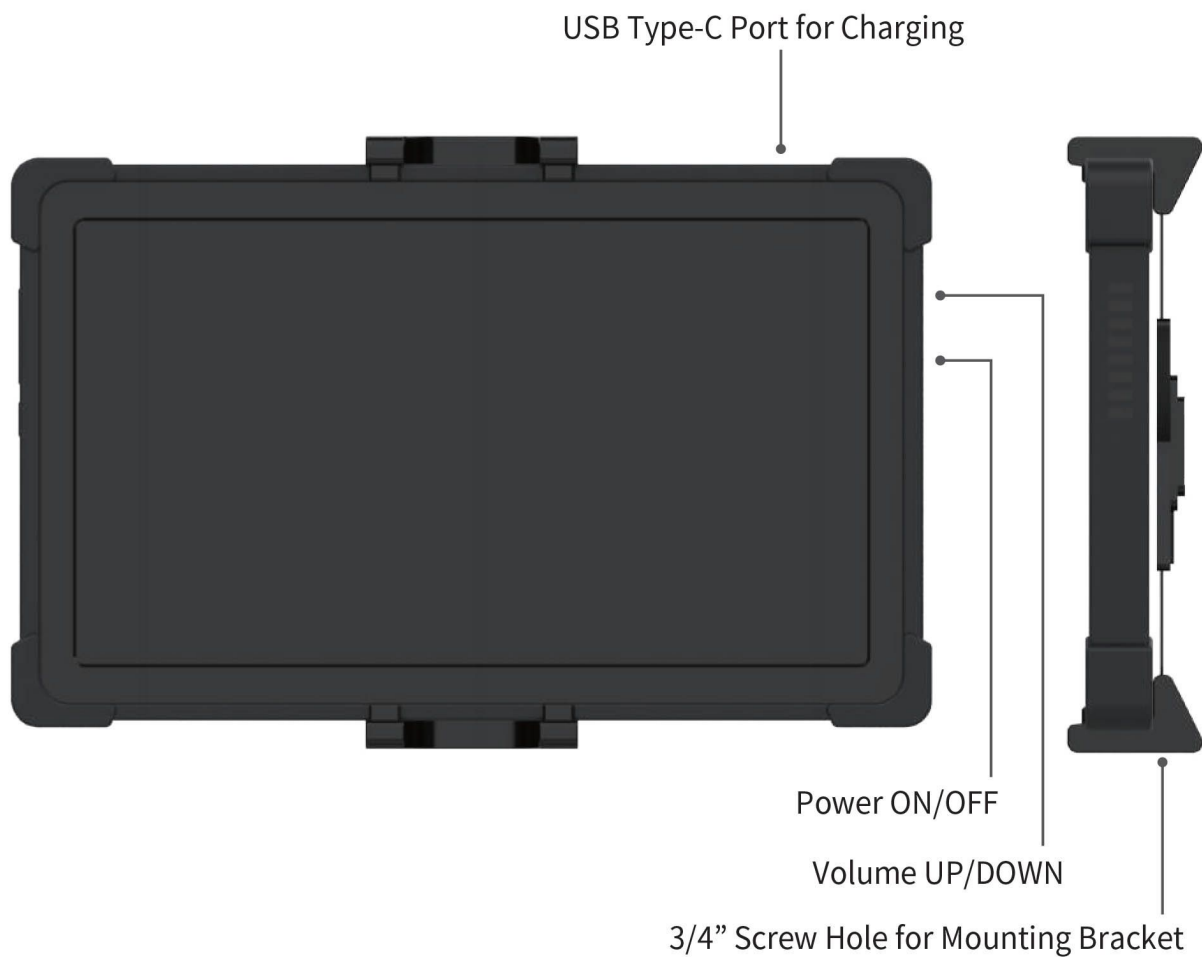
Android Tablet	
OS	Android 10
Display	10" IPS Touch Screen
Resolution	1280 x 800
Wireless Connectivity	Wi-Fi 2.4GHz
CPU	Octa-core Processor
Memory	2G RAM + 32G ROM
Power Supply	DC 5V2A
Installation	Mounting by bracket with clamp
Dimension	247 x 193 x 40 mm (including case & holder)
Weight	700g