



**PRIMAX**

**2024 Catalog**  
**Security Solutions**





## Barrier Security for Private and Public Spaces



## 3D Facial Authentication Door Access Controls

# Welcome!

Primax Electronics Ltd., pioneers in security and smart access technologies extend an invitation to attendees to discover the latest advancements showcasing from April 9th to 12th, 2024. This event is a unique chance to witness pioneering solutions designed to bolster security and enhance user convenience.

This year's exhibit showcases an array of smart security devices, emphasizing the company's dedication to providing a one stop, customized technological solutions. Each product exemplifies their commitment to address the varied requirements of clients with innovative and precise solutions.

Can't wait to see you! - The Primax Team



# mmWAVE RADAR



## HELPER

### Features

- Unobtrusive elderly care/healthcare in life
- Fall and presence detection with resident's position
- Complete 24/7 coverage, work in total darkness
- Privacy ensured (no camera)
- Virtual fence for intruder detection and safety prevention
- Instant accurate emergency alerts
- Hassle-free installation and set up

### Specification

<b>Radar Frequency:</b>	60Ghz
<b>RF Transceiver:</b>	3x Transmitter / 4x Receiver
<b>Detection FOV:</b>	120°(H), 120°(V)
<b>Detection Range:</b>	10 meter
<b>Waveform:</b>	FMCW
<b>Power/Connectivity:</b>	PoE 802.3af PoE / USB
<b>Wireless:</b>	Wi-Fi 802.11b/g/n

## GUARDIAN II

### Features

- Alexa compatible
- Sensor fusion (AI camera + radar integrated)
- Edge AI, Customizable AI model and algorithm
- Support 4 category (Vehicle, People, Motorcycle, Bicycle)
- Multiple objects tracking simultaneous
- 24/7 and all weather
- Increased detection reliability and accuracy
- Pan-Zoom camera for wide detection and auto tracking

### Specification

<b>Processor:</b>	4x ARM Cortex-A53 processor AI engine
<b>Image Sensor:</b>	CMOS, 8MP@30fps
<b>mmWave Radar:</b>	60Ghz, 79Ghz FMCW Radar
<b>Detection FOV:</b>	120°(H), 90°(V)
<b>Detection Range:</b>	50m
<b>Communication:</b>	Alexa, ONVIF Profile S/G/T
<b>Power/Connectivity:</b>	PoE+ IEEE 802.3at

## MERCURY

### Features

- Alexa compatible
- Suitable for outdoor asset surveillance and protection
- Accurate multi-threat detection and tracking
- Rugged, IP65, reliable 24/7 and all weather performance
- High detection accuracy and low false alarm
- Customized threat zone setting, virtual fence feature
- Angle resolution enhanced by TDM-MIMO
- Network integration with surveillance camera

### Specification

<b>Frequency:</b>	60Ghz, 79Ghz
<b>RF Transceiver:</b>	3x Transmitter/4x Receiver
<b>Max. Range:</b>	2m~50m @ 3.5m mount height
<b>Max. Velocity:</b>	120Km/hr (Related)
<b>Detection FOV:</b>	120°(H), 90°(V)
<b>Waveform:</b>	FMCW
<b>Power/Connectivity:</b>	PoE+ IEEE 802.3at



# 5G OUTDOOR BULLET CAM



## Features

- Bullet type, outdoor surveillance camera
- Qualcomm QCS6490 octa-core processors
- Camera with Startvis SONY image sensor
  - 4K / D130 degrees
  - Vari-focal Lens
  - HDR
- 5G Sub6 cellular modem integrated with removable Nano SIM
- In-visible antennas design
- Optional Wireless connectivity (WiFi 11ax & BT5.1)
- Support 850nm IR LED up to 50m for night vision & ALS
- Support 2-ways (alarm in/out, Line In/Out)
- Support EIS (6-axis IMU)
- Removable mSD local storage up to 512GB
- Power : 802.3at / DC 12V
- Network : RJ45, Ethernet 10M/100M
- IP67/IP66 and IK10

# VIDEO SURVEILLANCE



## MINI DOME

### Features

- 5MP@30fps NIR enhanced image sensor
- Edge AI for motion detection and recognition
- Support 3x optical zoom and auto focusing
- Support HDR
- Auto day & night switch and Smart IR
- IR for night mode >45m
- Imaging angle adjustment(3-Axis, Pan:355°,Tilt:-90°~75°, Rotation:±350°)

### Specification

<b>Video:</b>	H.264/H.265/MJPEG multiple streams
<b>FOV:</b>	D: 122°
<b>Audio:</b>	Line In/Line Out
<b>Network:</b>	Ethernet 802.3 100Base-T
<b>Power:</b>	PoE 802.3af / 12V DC-IN
<b>Communication:</b>	ONVIF Profile S/G/T
<b>Protection:</b>	IP66, IK10
<b>Dimension:</b>	120(D)x105(H) mm



## MICRO DOME

### Features

- NIR image sensor
- Image resolution support up to 4K@30fps
- Edge AI for motion detection and object recognition
- Support fixed focus optical lens
- Support HDR
- Day & night ICR / Smart IR
- IR for night mode >45m
- Imaging angle adjustment(3-Axis, Pan:355°,Tilt:-90°~75°, Rotation:±350°)

### Specification

<b>Video:</b>	H.264/H.265/MJPEG multiple streams
<b>Detection:</b>	Events detection and alarm notification
<b>FOV:</b>	D: 122°
<b>Wireless:</b>	WiFi 11n
<b>Power:</b>	PoE 802.3af / 12V DC-IN
<b>Communication:</b>	ONVIF Profile S/G/T
<b>Dimension:</b>	90(D)x83.3(H) mm



## VANDAL-DOME

### Features

- Up to 4K STARVIS image sensor with 0.001 Lux (B/W)
- 3x Motorized Vari-focal lens with P-iris lens control
- Support Electronic Image Stabilization
- Edge AI for events detection and alarm notification
- HDR
- Auto day & night switch and Smart IR
- Imaging angle adjustment(3-Axis, Pan:355°,Tilt:-90°~75°, Rotation:±350°)

### Specification

<b>Video:</b>	H.264/H.265/MJPEG multiple streams
<b>FOV:</b>	H: 106°
<b>Audio:</b>	Build MIC and audio I/O
<b>Alarm I/O:</b>	Support
<b>Network:</b>	Ethernet 802.3 100Base-T
<b>Power:</b>	PoE 802.3af / 12V DC-IN
<b>Protection:</b>	IP66, IK10 (Outdoor) / IP52 (Indoor)
<b>Operation Temp.:</b>	-40°C-55°C (Outdoor) -20°C-50°C (Indoor)
<b>Dimension:</b>	148(D)x119(H) mm



# Surveillance Camera Series



**DOME**

**ABF BOX**

**BULLET**

## **Features**

- 2MP STARVIS image sensor with 0.001 Lux (B/W)
- Max. image resolution up to 1080p@30fps
- Edge AI for events detection and alarm notification
- 3x Motorized Vari-focal lens
- HDR
- Auto day & night switch and Smart IR
- 3-Axis Imaging angle adjustment

## **Specification**

<b>Video:</b>	H.264/H.265/MJPEG multiple streams
<b>Audio:</b>	2-ways audio
<b>Detection:</b>	Events detection and alarm notification
<b>FOV:</b>	D: 122°
<b>Power:</b>	PoE 802.3af / 12V DC-IN / AC 24V
<b>Communication:</b>	ONVIF Profile S/G/T
<b>Protection:</b>	IP66, IK10+ (Bullet/Dome)
<b>Operation Temp.:</b>	-40°C-55°C (Outdoor) / -20°C-50°C (Indoor)

# INDOOR WIRELESS IP CAM



## Features

- Support 2MP/30fps video resolution
- Edge AI for motion detection
- Support HDR
- Support 8M IR range in night vision
- Support WiFi 2.4G/5GHz dual band and BLE5.1
- Easy installation

## Specification

<b>Video:</b>	H.264/H.265/MJPEG multiple streams
<b>Audio:</b>	2-ways audio
<b>Detection:</b>	Events detection alarm notification
<b>FOV:</b>	106.9°(H), 55.9°(V), 130°(D)
<b>Wireless:</b>	WiFi 2.4GHz/5GHz
<b>Power:</b>	BT5.1 USB 5V

## Features

- Support 2MP/30fps video resolution
- Edge AI for motion detection
- Support HDR
- Support 8M IR range in night vision
- Support WiFi 2.4G single band and BLE4.2
- Easy installation

## Specification

<b>Video:</b>	H.264/H.265/MJPEG multiple streams
<b>Audio:</b>	2-ways audio
<b>Detection:</b>	Events detection alarm notification
<b>FOV:</b>	106.9°(H), 56°(V), 130°(D)
<b>Wireless:</b>	WiFi 2.4GHz, BLE4.2
<b>Power:</b>	USB-C 5V



# SMART DOORBELL



## BUZZ

### Features

- Wired Powered Video Doorbell with FOV 180
- Support 2K / 30fps Video Resolution
- Long Range Wireless High Bandwidth: 802.11ah WiFi Halow
- Better Wireless Penetration Through Objects & Walls
- Object Detection
- Wide-Range Field of View

### Specification

<b>Video:</b>	H.264 encoding
<b>Audio:</b>	Two-way
<b>FOV (Video):</b>	180° H+V (Fisheye)
<b>Wireless:</b>	Wi-Fi (2.4/5 GHz)
<b>Power:</b>	Hardwired (16 ~ 24 VAC)
<b>IP rating:</b>	IP65
<b>Integration:</b>	Apple HomeKit
<b>Ring Chime:</b>	Mechanical / Wireless Ring Chime
<b>Camera:</b>	4MP RGB Sensor
<b>Dimension:</b>	124.3x43x28mm

## WEMO & ENTRY

### Features

- Support 2K/30fps video resolution
- HDR support
- Enhanced infrared night vision
- Integrated 2.4G/5GHz dual bands wireless connectivity
- Support HomeKit Secure Video for face recognition and smart notifications

### Specification

<b>Video:</b>	H.264/H.265/MJPEG multiple streams
<b>Audio:</b>	2-ways audio
<b>FOV (Video):</b>	146°(H), 178°(V)
<b>Wireless:</b>	Wi-Fi 11ax, BLE 5.0
<b>Power:</b>	AC 16V-24V
<b>IP rating:</b>	IP65
<b>Dimension:</b>	30x41x120mm

## PRO

### Features

- Support 2K/30fps video resolution
- HDR support
- Enhanced infrared night vision
- Integrated 2.4G/5GHz dual bands, BLE 5.0 wireless connectivity
- Support HomeKit Secure Video for face recognition and smart notifications

### Specification

<b>Video:</b>	H.264/H.265/MJPEG multiple streams
<b>Audio:</b>	2-ways audio, 2W Speaker
<b>FOV (Video):</b>	146°(H), 178°(V)
<b>Wireless:</b>	Wi-Fi 11ax, BLE 5.0
<b>Storage:</b>	Local Micro SD/Cloud
<b>Power:</b>	AC 18V-24V, Battery power
<b>IP rating:</b>	IP65
<b>Dimension:</b>	39x47x147mm



# Door Lock



## ASTRO BOY

### Features

- Auto Locking
- Delay Locking
- Privacy Mode
- Equipped w/ Secure IC
- Tamper Detection, Accelerometer, Temperature sensor, Tamper detection switch
- Door position detection

### Specification

<b>Connectivity:</b>	IEEE 802.11 b/g/n Wi-Fi
<b>Power Source:</b>	AA Alkaline Batteries * 4 9V Emergency Power Supply
<b>Certification:</b>	ANSI/BHMA A156.36 Grade 2
<b>Unlock Method:</b>	Passcode, NFC, Fingerprint, Mechanical Key
<b>Integration:</b>	Apple HomeKit
<b>Dimension (L x W x T):</b>	124 x 76.5 x 21.3mm (F) 156.1 x 74.2 x 34mm (R)

## WOODY

### Features

- Auto Locking
- Delay Locking
- Privacy Mode
- Equipped w/ Secure IC

### Specification

<b>Connectivity:</b>	Bluetooth 5.0, LoRa
<b>Power Source:</b>	Lithium Batteries *2
<b>Tail Piece Adaptor:</b>	Schlage, Kwikset, Yale
<b>Access Control:</b>	Passcode, Bluetooth 5.0
<b>Integration:</b>	Amazon Sidewalk
<b>Sensors:</b>	E-Compass Sensor (Door position detection)
<b>Dimension (L x W x T):</b>	Keypad: 98 x 76 x 24mm Lock: 149 x 72.8 x 34.2mm

## HOOK

### Features

- 10-digit Backlit keypad with one-touch locking
- Support Z-Wave Long Range
- Tapered deadbolt design

### Specification

<b>Connectivity:</b>	Z-Wave® 800 series
<b>Power Source:</b>	6V (AA Alkaline Batteries * 4)
<b>Weather Resistance:</b>	IP54 (Exterior)
<b>Unlock Method:</b>	Passcode, Unlock by Z-Wave
<b>Others:</b>	Exterior LED status indicator- Locked/Unlocked status Interior Buzzer sound indicator
<b>Dimension (L x W x T):</b>	Exterior: 68x 105 x 30mm Interior: 68 x 145 x 45.5 mm

# SMART KEYPAD



## SCOTT-M

### Features

- Support Matter
- WiFi 6 TWT power saving
- Auto 3D facial recognition
- Human presence detection
- Registration data update via BLE.
- Low battery detection
- Power saving mode

### Specification

<b>Connectivity:</b>	Bluetooth 5.0
<b>Power Source:</b>	CR123A Lithium Battery *6
<b>Weather Resistance:</b>	IP65
<b>Access Control:</b>	Passcode, NFC Unlock by phone
<b>Facial Recognition dist.:</b>	< 1.5m
<b>Others:</b>	Accelerometer (Tamper protection) Buzzer, Indication LED
<b>Dimension (L x W x T):</b>	105 x 35 x 67mm

## BULLSEYE

### Features

- Capacitive Touch
- Force Sensing
- Work with glove
- Work with pouring water

### Specification

<b>Connectivity:</b>	Bluetooth 5.0 Low Energy
<b>Power Source:</b>	AAA Alkaline Batteries *2
<b>Battery Life:</b>	6 Months
<b>Certification:</b>	ANSI/BHMA A156.36 Grade 2
<b>Dimension (L x W x T):</b>	Keypad: 98 x 76 x 24mm



# 3D FA DOOR LOCK



## WALLE-S

### Features

- 3D liveness detection (IR structure light)
- In-stride facial authentication
- Proximity detection
- Remote face enrollment
- Battery monitoring
- Video + 2-way audio
- Matter integrated
- Structure lighting
- 10K face data storage

## SIMBA

### Features

- 3D liveness detection (Dual NIR)
- In-stride facial authentication
- Proximity detection
- Battery monitoring
- Matter integrated
- 100 face data storage

### Specification

**Connectivity:**

WiFi, BLE 5.0, Thread (or WiFi-6)

**Power Source:**

Re-chargeable Battery pack

**Weather Resistance:**

IP65

**Access Control:**

Dual NIR FA, Passcode, NFC  
Lock/ Unlock (Local/ Remote)

**Facial dist.:**

< 1.5m

**Others:**

Tamper protection

**Dimension (L x W x T):**

Buzzer, LED Indication

Exterior lock: 172.6 x 74.2 x 28mm

Interior lock: 184 x 75 x 36.2mm





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