PRAETORIAN GUARD

IP / 4G INTERCOMS

aES GLOBAL

WWW.AESGLOBALONLINE.COM

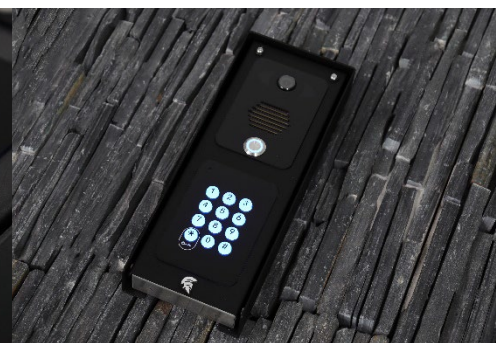ACCESS THE FUTURE

Praetorian Guard

IP Video Intercom

Long Range Antenna *(2.4GHz)
(up to 60m working range depending on
router type and location)!

Existing Wi-Fi Hub

New Praetorian APP

– **Speak to your visitors from anywhere in the world.**

– Grant access remotely - Send a command to the gate motor via the app to open your gates etc.

– Keypad Codes – 24-7 / Timed / Temporary (Optional)

– No Touch Access - PROX Cards/ Tags - 24-7 / Timed / Temporary (Optional)

– Voicemail - Visitors can leave a video messages when unanswered.

– Multi-User - Add up to 8 maximum devices per Intercom ID. (incl ADMIN user. 4 maximum for optimal performance.)

– **Connect via WiFi, LAN Cable or 4G Access Point (Sold Seprately) (Dualband WIFI. 2.4 & 5.8G wifi (802.11 b/g/n/a/c)**

– Coin Cell Battery to retain important system settings while a device is off. E.g. date-stamp.

– Volume of external speaker adjustable at the call-point.

* 2.4GHz Antenna Incl, 5.8GHz available to purchase separately.

2 YEAR WARRANTY

Installer / User App

App images for illustrative purposes only.

Praetorian Guard
APP AVAILABLE NOW

Ver 6.2

Intercom1
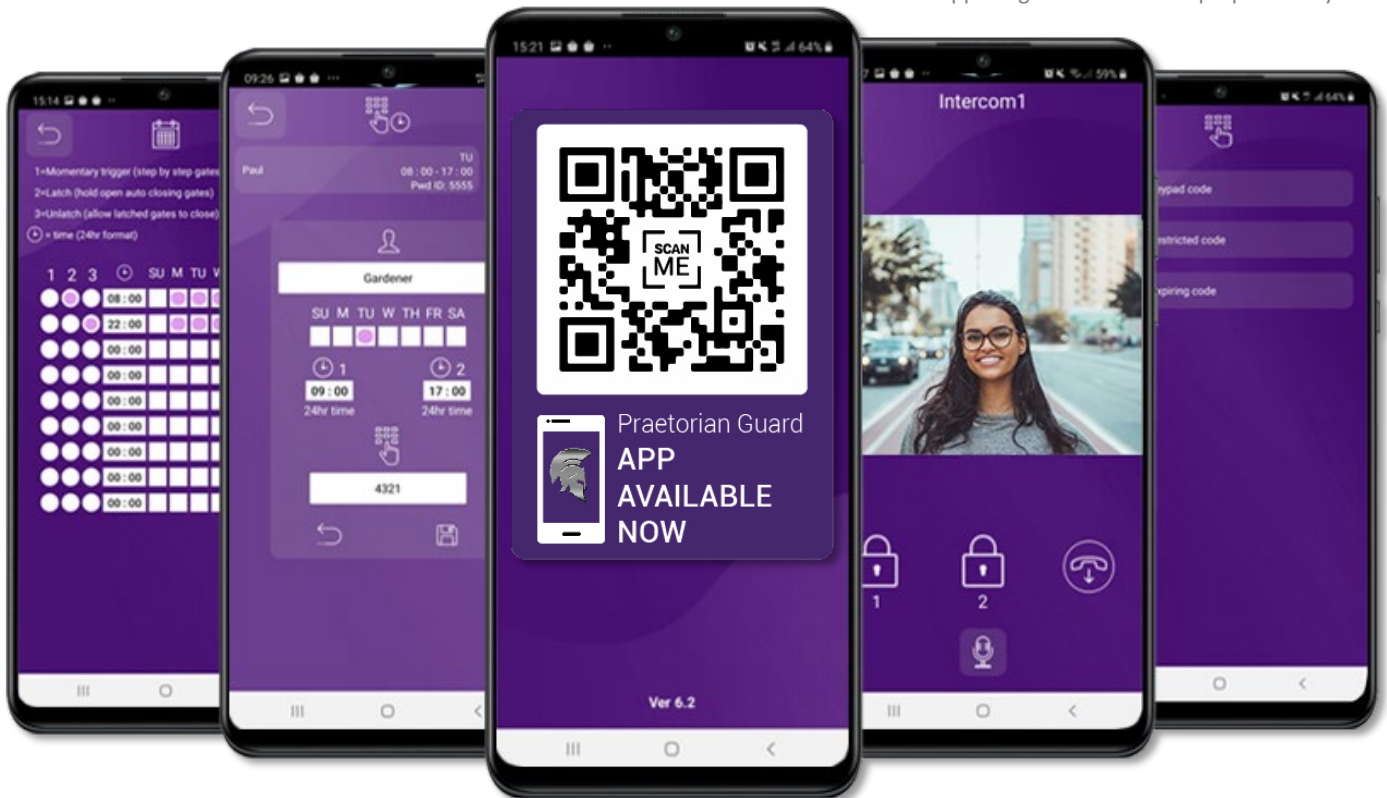
Events log for Keypad codes, Calls, Voicemails, Prox ID's. (past 100)

7-day schedule for auto relay opening.

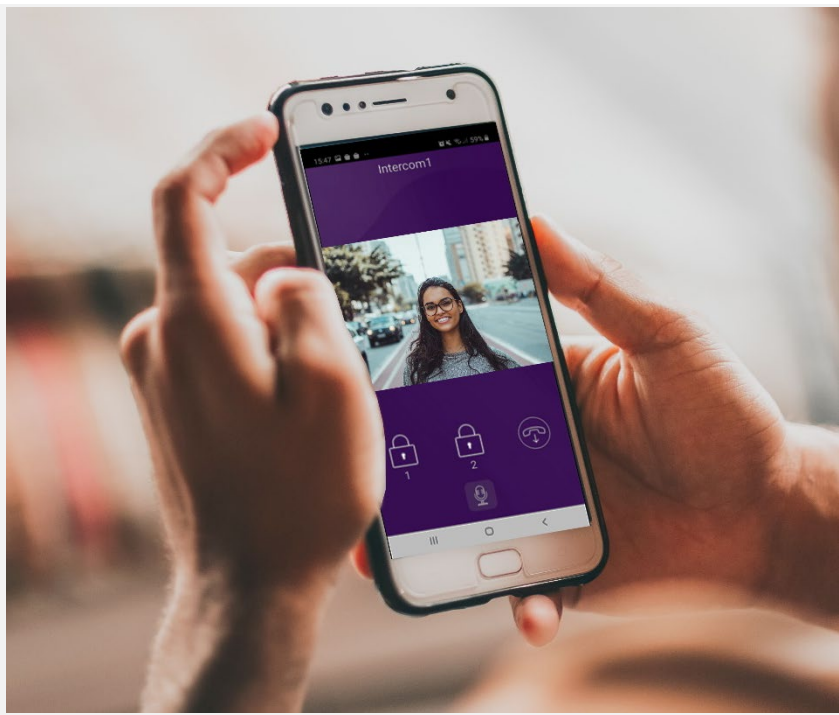**Notifications** - Motion Sensor is Triggered or Gates opened / closed via app, keypad or PROX.

Sync device time to device.

Prox & Keypad codes added via App.

HD View your camera in full screen mode.

DOWNLOAD ON THE App Store

ANDROID APP ON Google Play

Security
screw access

HD camera with video
motion sensor

Colour camera with
night vision and IR
cut filter

Infra-red night vision
illuminators

Waterproof Mylar
1.5W speaker

Illuminated IP67
push button

Optional illuminated
keypad.

High gain Wi-Fi antenna
60 degree transmission to
concentrate & extend range.
Weatherproof for outdoor use.

2.4GHz Directional Antenna
with 2m RG174 cable with
SMA male connector.

GENERAL

Front Panel	**Portrait Orientation** ***AB/ABK*** = 3mm Acrylic on Architectural Design Marine Grade Stainless Steel BS316 Front Plate. ***AS/ASK*** = 3mm Marine Grade Stainless Steel BS316 on Architectural Design Marine Grade Stainless Steel BS316 Front Plate. ***FS/FSK*** = Flush Design Marine Grade Stainless Steel BS316 Front Plate. ***IMP/IMPK*** = 3mm Acrylic on Imperial Design Marine Grade Stainless Steel BS316 Front Plate. ***Modular*** = Powder Coated Marine Grade Stainless Steel BS316 Front Plates with 3mm Acrylic on Design Marine Grade, Stainless Steel BS316 Modular Plates. **Landscape Orientation** PED = Pedestal Surface Mount
Hood Cover (MOD, IMP(K), PED versions)	Powder coated Aluminium
Mounting Housing (Backbox)	Marine Grade Stainless Steel BS316
Mounting Type	Surface-Mounted with backlighting, Flush-mounted version sold separately
Call Button	Stainless-steel button with illuminated LED Ring
Weatherproof	IP55
Approvals	CE, FCC
Dimensions	See Overview of Call Points
Operating Temp.	-25 to +55°C / -13 to 131°F
Power Supply	24V DC
Power Consumption	**IP PCB w/Keypad & Prox** Standby = 80mA Operating = 300mA
Solar Power	45Watt Solar Panel (minimum) 2x 12V 15AH Batteries connected in series to provide 24V output
Connectors	LAN (RJ45) 2 x Bistable latching relay, max. 1-28V DC/AC, 1A, e.g. for magnetic door lock External input for push to exit button 24V DC input (+, -)
System Requirements	Mobile device: Newest iOS on iPhone/iPad, newest Android on Smartphone/Tablet Internet: High-Speed Landline Broadband Internet connection, DSL, cable or fibre optic, no socks or proxy server. Min. suggested upload speed of 1.5mbps, Network: Ethernet Network, with DHCP / WIFI 2.4GHz/5.8GHz (with applicable antenna)
Recommended Installation Height	Camera lens should be at a min. height of145 cm (57 in). Before the installation please determine your optimal installation height.
Warranty	See www.aesglobalonline.com/warranty

KEYPAD MODULE

Power Supply	24V DC
Steel Keypad Module	12 Square Silicon Keys Blue illumination Keypad Codes configurable via App, **Slave connection to allow up to an additional 8 slave devices**
Silicon Keypad Module	12 Round Silicon Keys Blue illumination Keypad Codes configurable via App, **Slave connection to allow up to an additional 8 slave devices**

THIRD-PARTY INTEGRATIONS

Partners	N/A - Coming Soon
API	N/A - Coming Soon

VIDEO

Camera	HD 720p, dynamic (VGA – HD)
Lens	120° (D), 109° (H), 65° (V) IR-capable
Display Resolution	Switchable in the app by the Admin user. HD resolution: 1280*720 SD resolution: 640*480
Video Codec	H264
Night-Vision	Yes, light sensor, automatic IR-cut filter, 5 Infrared LEDs
Storage	On-Board Micro SD Card (16GB included) Max read capacity 32GB Estimated capacity based on 16GB: 5,592 Video Clips (3MB) {AVI.} 33,500 images (0.5MB) {JPG} Supports Hot Swapping. Auto overwrites oldest data at 80% capacity FAT32 Formatting

MOTION SENSOR

Type	Active
Detection Type	Digital (Pixel-based) Changes of pixilation. This is processed by the CPU identifying any major/minor changes in pixels that is defined by a predetermined algorithm.
Range	>5m, depends on environment, distance is fixed

AUDIO

Audio Components	Speaker and microphone, noise reduction and echo cancellation (ANR, AEC)
Audio Streaming	Two-way, full duplex & half-duplex (switchable in-app)
Audio Codec	PCM/ARAW

NETWORK

WiFi	IEEE 802.11a/b/g/n/ac
WiFi Security	WPA / WPA2 / WPA3
Frequency Range	2.4GHz-2.4385GHz; 5.15GHz-5.845GHz
Ethernet	IEEE 802.3
Supported Protocols	HTTP, HTTPS, SSL/TLS, Bonjour, DNS, RTSP, RTP, TCP, UDP, RTCP, ICMP, DHCP, ARP

4G ROUTER

Power Supply	24V DC
Interface	Custom OpenWrt
Antenna Type	SMA
SIM Tray	NANO
LAN Ports	2 x 10/100 Mbps - LAN/WAN
Direct Cable Connection	8 Pin Spring Connector Terminal Block (Linked to 1 x LAN ports)
GSM Modem Models	4G Europe - SIM7600E 4G USA - SIM7600A 4G AUS/NZ - SIM7600SA
Frequency Range	LTE-TDD = B38/B40/B41 LTE-FDD = B1/B3/B5/B7/B8/B20 UMTS/HSPA+ = B1/B5/B8 GSM/GPRS/EDGE = 900/1800MHz
RF Output Power (EIRP)	32.55dBm (GSM 900), 29.73dBm (DCS 1800) 23.77dBm (WCDMA Band I), 23.78dBm (WCDMA Band VIII) 22.79dBm, 22.73dBm, 22.97dBm, 22.35dBm, 22.99dBm (LTE B1, B3, B7, B8, B20)

Praetorian Guard

IP MODULAR Video Intercom

PRAE-IP-MOD

1x1 Modular call panel with *high gain Wi-Fi* antenna. Button with modern blue lighting.

PRAE-IP-MOD-KP

1x2 Modular call panel with keypad and *high gain Wi-Fi* antenna. Keypad/button with modern blue lighting.

PRAE-IP-MOD-PX-KP

1x2 Modular call panel with **keypad** and **prox** reader. H*igh gain Wi-Fi* antenna. Keypad/button with modern blue lighting.

PRAE-IP-MOD-PX

1x2 Modular call panel with **prox** reader and h*igh gain Wi-Fi* antenna. Button with modern blue lighting.

MON-11

Wall mount touch screen monitor compatible with the **Praetorian system**. Can be an added accessory to all above kits.

Other kits and part numbers

PRAE-IP-IMP

(Kit includes speech panel, antenna, power supply and install manual)

Contemporary cool-white illuminated buttons.
Marine grade, brushed stainless steel construction with gloss acrylic trim and powder coated aluminium hood.

PRAE-IP-IMP-MONITOR1

(Kit includes WIFI panel, antenna, 1x MON-11 Monitor and install manual)

PRAE-IP-AB

(Kit includes speech panel, antenna, power supply and install manual)

Modern blue back lighting effect.
Marine grade, brushed stainless steel construction with gloss acrylic trim.

PRAE-IP-AB-MONITOR1

(Kit includes WIFI panel, antenna, 1x MON-11 Monitor and install manual)

PRAE-IP-AS

(Kit includes speech panel, antenna, power supply and install manual)

Architectural model with contemporary cool-white illuminated buttons.
Marine grade, brushed stainless steel construction.

PRAE-IP-AS-MONITOR1

(Kit includes WIFI panel, antenna, 1x MON-11 Monitor and install manual)

PRAE-IP-PED

(Kit includes speech panel, antenna, power supply and install manual)

PRAE-IP-PED-MONITOR1

(Kit includes WIFI Panel, antenna, 1x MON-11 Monitor and install manual)

Pedestal mountable & modern blue illuminated button. Marine grade, brushed stainless steel construction with gloss acrylic trim and powder coated aluminium hood.

Flush Mount Options

PRAE-IP-FS

(Kit includes speech panel, antenna, power supply and install manual)

PRAE-IP-FS-MONITOR1

(Kit includes WIFI panel, antenna, 1x MON-11 Monitor and install manual)

Flush Mount marine grade, brushed stainless steel construction. Contemporary cool-white illuminated button.

PRAE-IP-FB

(Kit includes speech panel, antenna, power supply and install manual)

PRAE-IP-FB-MONITOR1

(Kit includes WIFI panel, antenna, 1x MON-11 Monitor and install manual)

Flush mount marine grade, brushed stainless steel construction with gloss acrylic trim. Modern blue illuminated button.

PRAE-IP-IMPK

(Kit includes speech panel, antenna, power supply and install manual)

Marine grade, brushed stainless steel construction with gloss acrylic trim and powder coated aluminium hood. Contemporary cool while illuminated buttons.
Prox panel: PRAE-IP-PX-IMPK

PRAE-IP-IMPK-MONITOR1

(Kit includes WIFI Panel, antenna, 1x MON-11 Monitor and install manual)

PRAE-IP-ABK

(Kit includes speech panel, antenna, power supply and install manual)

Modern blue back lighting effect.
Marine grade, brushed stainless steel construction with gloss acrylic trim.
Prox panel: PRAE-IP-PX-ABK

PRAE-IP-ABK-MONITOR1

(Kit includes WIFI Panel, antenna, 1x MON-11 Monitor and install manual)

PRAE-IP-ASK

(Kit includes speech panel, antenna, power supply and install manual)

Architectural model with contemporary cool-white illuminated buttons & back lighting.
Marine grade, brushed stainless steel construction.
Prox panel: PRAE-IP-PX-ASK

PRAE-IP-ASK-MONITOR1

(Kit includes WIFI Panel, antenna, 1x MON-11 Monitor and install manual)

PRAE-IP-KP-PED

(Kit includes speech panel, antenna, power supply and install manual)

PRAE-IP-PX-PED-MONITOR1

(Kit includes WIFI Panel, antenna, 1x MON-11 Monitor and install manual)

Marine grade, brushed stainless steel construction with gloss acrylic trim and powder coated aluminium hood. Modern blue illuminated buttons. Prox panel: PRAE-IP-PED-PX

F l u s h   M o u n t   O p t i o n s

PRAE-IP-FSK

(Kit includes speech panel, antenna, power supply and install manual)

PRAE-IP-FSK-MONITOR1

(Kit includes WIFI Panel, antenna, 1x MON-11 Monitor and install manual)

Flush Model with contemporary cool-white illuminated buttons.
Marine grade, brushed stainless steel construction.
Prox panel: PRAE-IP-PX-FSK

PRAE-IP-FBK

(Kit includes speech panel, antenna, power supply and install manual)

PRAE-IP-FBK-MONITOR1

(Kit includes WIFI Panel, antenna, 1x MON-11 Monitor and install manual)

Flush model with modern blue lighting (keypad & button).
Marine grade, brushed stainless steel construction with gloss acrylic trim.
Prox panel: PRAE-IP-PX-FBK

Praetorian Guard
4G-IP Video Intercom

4G Modem

New Praetorian APP

Praetorian Guard IP Intercom complete with 4G access point. The access point will provide an internet connection via a compatible SIM card*

– Speak to your visitors from anywhere in the world.

– Grant access remotely - Send a command to the gate motor via the app to open your gates etc.

– Keypad Codes – 24-7 / Timed / Temporary (Optional)

– No Touch Access - PROX Cards/ Tags - 24-7 / Timed / Temporary (Optional)

– Voicemail - Visitors can leave a video messages when unanswered.

– Multi-User - Add up to 8 maximum devices per Intercom ID. (incl ADMIN user. 4 maximum for optimal performance.)

– Wifi/LAN cable (Dualband WIFI. 2.4 & 5.8G wifi (802.11 b/g/n/a/c) can also be connected to a local Network.

– Coin Cell Battery to retain important system settings while a device is off. E.g. date-stamp.

– Volume of external speaker adjustable at the call-point.

– Vodafone SIM include for convenience. (UK/IRL markets only)

* MIN 1.5MB UPLOAD.

* MIN 1GB P/MIN DATA (Depending on usage).

2 YEAR WARRANTY

Praetorian Guard

4G-IP MODULAR Video Intercom

4G

PRAE-4XX-MOD

Modular 1x1 call panel and 4G router. Button with modern blue lighting.

PRAE-4XX-MOD-KP

1x2 Modular call panel with keypad and 4G router. Keypad/button with modern blue lighting.

PRAE-4XX-MOD-PX-KP

Modular 1x2 call panel with **keypad** & **prox** reader and 4G router. Keypad/button with modern blue lighting.

PRAE-4XX-MOD-PX

Modular 1x2 call panel with **prox** reader and 4G router. Button with modern blue lighting.

Built in 4G Modular options

4G

Network code for part number.

4GE (Europe)
4GA (USA)
4GAU (Australia & NZ)

Have the choice of a Module with 4G access point built into the Modular Unit.

PRAE-4XX-MOD-ROUTER

Modular 1x2 call panel.
With 4G router built in.

4G Blank
Module.

PRAE-4XX-MOD-KP-ROUTER

Modular 1x2 call panel, 4G
router built in & keypad.
Keypad/button with modern
blue lighting.

4G Blank
Module.

PRAE-4XX-MOD-PX-KP-ROUTER

Modular 1x2 call panel. 4G
router built in, keypad & prox
reader. Keypad/button with
modern blue lighting.

4G Blank
Module.

Prox reader &
Keypad Module

PRAE-4XX-MOD-PX-ROUTER

Modular 1x2 call panel. 4G
router built in & prox reader.
Keypad/button with
modern blue lighting.

4G Blank
Module.

Prox reader
Module

PRAE-4GE/IMP (Europe)
PRAE-4GA/IMP (USA)
PRAE-4GAU/IMP (Australia & NZ)

PRAE-4GE/IMPK (Europe)
PRAE-4GA/IMPK (USA)
PRAE-4GAU/IMPK (Australia & NZ)

Contemporary cool-white illuminated buttons. Marine grade, brushed stainless steel construction with gloss acrylic trim and powder coated aluminium hood. (Kit includes speech panel, 4G modem, power supply and install manual)
Prox panel: PRAE-4G*/IMPK (*Network code)

PRAE-4GE/AB (Europe)
PRAE-4GA/AB (USA)
PRAE-4GAU/AB (Australia & NZ)

PRAE-4GE/ABK (Europe)
PRAE-4GA/ABK (USA)
PRAE-4GAU/ABK (Australia & NZ)

Modern blue back lighting effect. Marine grade, brushed stainless steel construction with gloss acrylic trim.
(Kit includes speech panel, 4G modem, power supply and install manual)
Prox panel: PRAE-4G*/ABK (*Network code)

PRAE-4GE/AS (Europe)
PRAE-4GA/AS (USA)
PRAE-4GAU/AS (Australia & NZ)

PRAE-4GE/ASK (Europe)
PRAE-4GA/ASK (USA)
PRAE-4GAU/ASK (Australia & NZ)

Architectural model with contemporary cool-white illuminated buttons.
Marine grade, brushed stainless steel construction.
(Kit includes speech panel, 4G modem, power supply and install manual)
Prox panel: PRAE-4G*/ASK (*Network code)

PRAE-4GE/PED (Europe)
PRAE-4GA/PED (USA)
PRAE-4GAU/PED (Australia & NZ)

PRAE-4GE/PED-KP (Europe)
PRAE-4GA/PED-KP (USA)
PRAE-4GAU/PED-KP (Australia & NZ)

Pedestal mountable & modern blue illuminated buttons. Marine grade, brushed stainless steel construction with gloss acrylic trim and powder coated aluminium hood. Built in 4G router. (Kit includes speech panel, power supply and install manual)
Prox panels: PRAE-4G*-PED-PX / PRAE-4G*-PED-KP (*Network code)

F l u s h   M o u n t   O p t i o n s

PRAE-4GE/FS (Europe)
PRAE-4GA/FS (USA)
PRAE-4GAU/FS (Australia & NZ)

PRAE-4GE/FSK (Europe)
PRAE-4GA/FSK (USA)
PRAE-4GAU/FSK (Australia & NZ)

Flush Mount marine grade, brushed stainless steel construction.
Contemporary cool-white illuminated buttons.
(Kit includes speech panel, power supply and install manual)
Prox panel: PRAE-4G*/FSK (*Network code)

PRAE-4GE/FB (Europe)
PRAE-4GA/FB (USA)
PRAE-4GAU/FB (Australia & NZ)

PRAE-4GE/FBK (Europe)
PRAE-4GA/FBK (USA)
PRAE-4GAU/FBK (Australia & NZ)

Flush mount marine grade, brushed stainless steel construction with gloss acrylic trim.
Modern blue lighting (Keypad & buttons).
(Kit includes speech panel, power supply and install manual)
Prox panel: PRAE-4G*/FBK (*Network code)
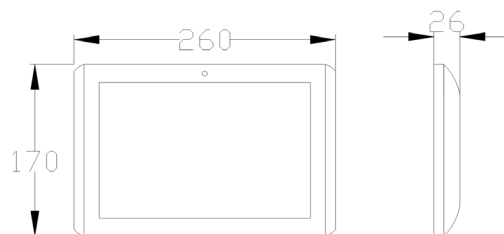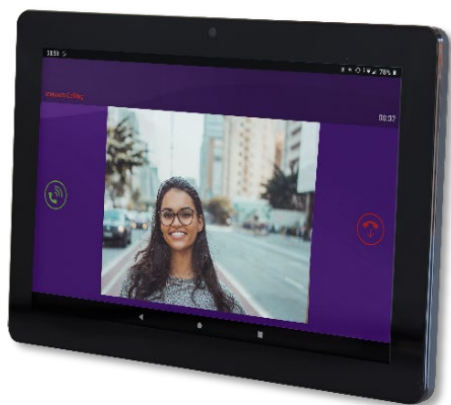
MON-11

– Wall mount touch screen monitor (1280x800 Resolution), compatible with the **Praetorian system**.
– 10.1 inch screen IPS LCD android screen.
– Wifi, Ethernet & Bluetooth connections.
– POE supplied (12V DC can be purchased separately)
– Complete with wall mount bracket.
– Android OS (8.1) with Praetorian app pre-loaded.
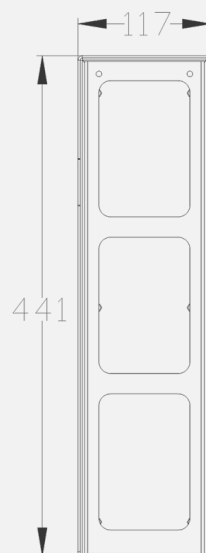– RK3288, Quad-core cortex A17, 1.6G.

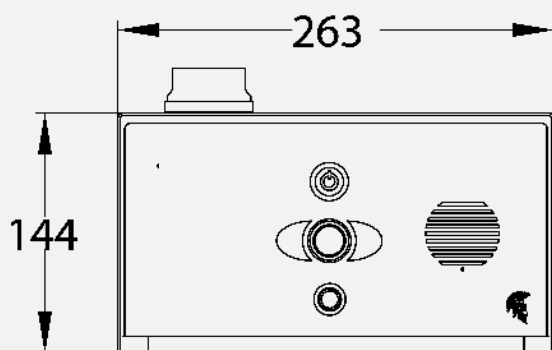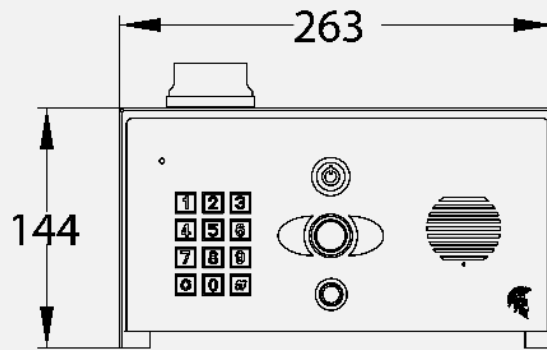*Call Panel Dimensions*
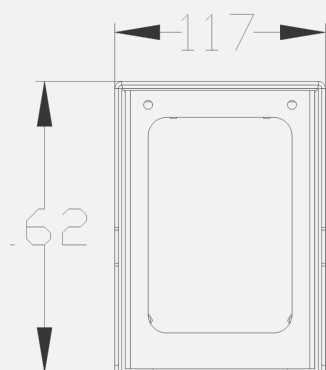
MOD-1X1 (MODULAR)
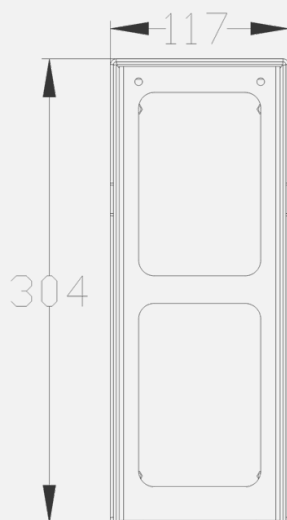
MOD-1X2 (MODULAR)

MOD-1X3 (MODULAR)

PRAE-PED
(Antenna on 4G panel only)

PRAE-PED-KP
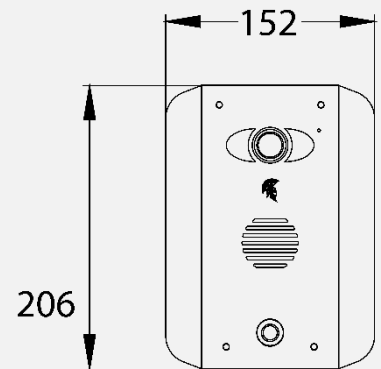**(Antenna on 4G panel only)**

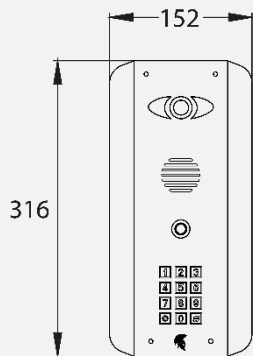# Call Panel Dimensions

PRAE-IMP Call Panel

110
216
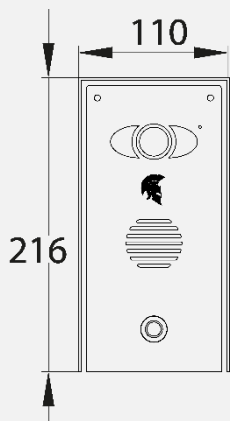
PRAE-IMPK Call Panel

110
322

PRAE-AB & AS Call Panel

152
206

PRAE-ABK & ASK Call Panel

152
316

PRAE-FB & FS Call Panel

140
227

PRAE-FBK & FSK Call Panel

139
314