



SENSE 2

Robust. Formidable. Tenacious.

Taking cue from its predecessor, SENSE 2 is a beast designed specially to withstand the harsh outdoor environments.

An improvement over Invixium's original starboy for industrial environments, SENSE 2 does everything that SENSE was capable of and more. Devised to provide an immaculate experience in a myriad of harsh environmental conditions like construction sites, refineries, factories and sea ports, SENSE 2 is geared with the new and improved multispectral imaging Mercury sensor from Lumidigm with enhanced Liveness Finger Detection Technology. SENSE 2 is also equipped with the ability to power the door strike directly, removing the hassle of separate wiring for door strikes during installations.

With a larger biometric record capacity and more processing power, SENSE 2 is power packed to fulfill a broad range of market requirements.



MULTISPECTRAL
IMAGING



PoE+



PRESENCE
DETECT



DEVICE POWERS
DOOR STRIKE



SINGLE DOOR
ACCESS CONTROL

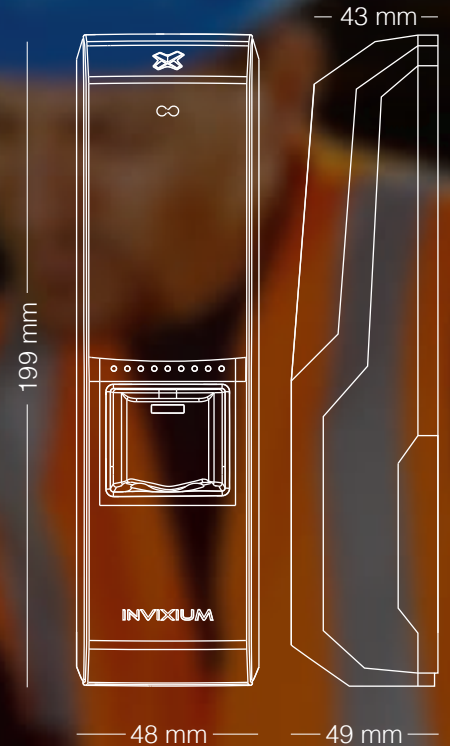


Technical Specifications

Processor	ARM Cortex A8 - 1 GHz
Random Access Memory	512 MB DDR3L @ 303 MHz
Flash Memory - NAND	1 GB
Operating System	Android® OS (4.1.2)
Serial Communication	RS - 232, RS - 485, USB - Aux
Ethernet	100BASE-T
Wiegand	Customizable up-to 512 bits
USB	USB 2.0 On - The - Go (OTG)
# of SPOs & SPIs	3 & 3
Door Access Controller	2A (1 O/P, 2 I/P, 1 Relay)
Door Strike Supply	12V @ 500mA
Anti-Shock Vandal Protection	Standard
Auto On (Proximity Sensor)	Yes (2 meters)
LEDs	1 (Power & Status)
Audio	Speaker (2 Watts), Microphone
1 : N Users (Records)	20K users (40K biometric records)
1 : 1 Users (Records)	100K users (200K biometric records)
# of Transaction Logs	500K
PoE+	IEEE 802.3at
Power Supply*	12V DC @ 1A, 24V DC @ 0.5A
Operating Temperature	-20° C to +60° C (-4° F to +140° F)
Relative Humidity	0% ~ 95%, non condensing
Regulatory Approvals and Certificates	FCC, CE, RoHS, IP65, IK08

*If device is powering the door strike, power supply should be 12V DC @ 1.5A.

Dimensions



Device Models

SENSE 2	Sensor	Model	Colors
	FPL	1	Black/Titanium
	FP	2	Black/Chrome
		3	
		4	
		5	

FPL - Lumidigm Multispectral Sensor
FP - Optical Sensor

- 1 - Fingerprint only
- 2 - Fingerprint + Card Reader† (EM Prox / MiFARE / DESFire)
- 3 - Fingerprint + Card Reader† (HID Prox)
- 4 - Fingerprint + Card Reader† (iCLASS / MiFARE / DESFire)
- 5 - Fingerprint + Card Reader† (EM Prox / HID Prox / iCLASS / MiFARE / DESFire)

†EM Prox - 125 KHz (4100, 4102, 4200)
HID Prox - 125 KHz (ProxCard II)
iCLASS - 13.56 MHz (iCLASS Standard, iCLASS SE)
MiFARE - 13.56 MHz (MiFARE Classic, DESFire, DESFire EV1)

PRODUCT COMPARISON MATRIX



	MERGE CR	MERGE	MYCRO	SENSE 2 L series	SENSE 2 S series	TOUCH 2 S series	TOUCH 2 S Series Wi-Fi	TOUCH 2 L series
Device OS	Android	Android	Android	Android	Android	Android	Android	Android
Tamper	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal Relay	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Capacity (1: N)	—	500	10K	20K	20K	20K	20K	20K
User Capacity (1: 1)	5K	5K	25K	100K	100K	100K	100K	100K
Log Capacity	25K	25K	100K	500K	500K	500K	500K	500K
Audio	Speaker	Speaker	Multi-tone Buzzer	Speaker & Mic	Speaker & Mic	Speaker & Mic	Speaker & Mic	Speaker & Mic
Weather Rating	IP65 Kit	IP65 Kit	IP65	IP65	IP65	IP65	IP65	IP65
Operating Temp	0°C to +60°C 32°F to +140°F	0°C to +60°C 32°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F	-20°C to +60°C -4°F to +140°F
Communication	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet
Power over Ethernet (PoE)	Yes	Yes	—	Yes	Yes	Yes	Yes	Yes
Power Supply	12 VDC @ 1 Amp	12 VDC @ 1 Amp	12 VDC @ 1 Amp	12 VDC @ 1 Amp	12 VDC @ 1 Amp	12 VDC @ 1 Amp	12 VDC @ 1 Amp	12 VDC @ 1 Amp
Power Supply (If Device Powers Door Strike)	—	—	—	12 VDC @ 1.5 Amp	12 VDC @ 1.5 Amp	12 VDC @ 1.5 Amp	12 VDC @ 1.5 Amp	12 VDC @ 1.5 Amp
Camera	—	—	—	—	—	5 MP	5 MP	5 MP
Wi-Fi	—	—	—	—	—	—	Yes	—
Fingerprint Sensor	—	Active Thermal	Optical	Ruggedized Lumidigm	Optical	Optical	Optical	Ruggedized Lumidigm
LCD	—	2.0" IPS Touchscreen	—	—	—	2.4" IPS Touchscreen	2.4" IPS Touchscreen	2.4" IPS Touchscreen
Battery Backup	—	—	—	—	—	Accessory	Accessory	Accessory
Presence Detect	—	—	—	Yes	Yes	Yes	Yes	Yes
Door Strike Supply	—	—	—	12V@500mA	12V@500mA	12V@500mA	12V@500mA	12V@500mA
Dimensions (LxWxD)	139x47x34 mm 5.5x1.9x1.3 in	176x49x33 mm 6.9x1.9x1.3 in	168x48x44 mm 6.6x1.9x1.7 in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in	199x48x49 mm 7.8x1.9x1.9 in
Device Models	CR	FP22 FP4	FP1 FP2 FP3 FP4 FP5	FPL1 FPL2 FPL3 FPL4 FPL5	FP1 FP2 FP3 FP4 FP5	FP1 FP2 FP3 FP4 FP5	FP1 FP2 FP3 FP4 FP5	FPL1 FPL2 FPL3 FPL4 FPL5
Color Options	White Black	White Black White/Black	Black	Black/Chrome Black/Titanium	Black/Chrome	White/Gold Black/Chrome	White/Gold Black/Chrome	Black/Chrome Black/Titanium

CR: Card Reader (MiFARE / DESFire)
 FP: Optical or Active Thermal sensor
 FPL: Lumidigm Multispectral sensor
 1: Finger only
 2: Card Access (EM Prox / MiFARE / DESFire)
 22: Card Access (MiFARE / DESFire)
 3: Card Access (HID Prox)
 4: Card Access (iCLASS / MiFARE / DESFire)
 5: Card Access (EM Prox / HID Prox / iCLASS / MiFARE / DESFire)