

| Narsec Surveillance System | | |
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| | | |
| Equipment Specifications | | Quantity |
| 1. <u>IP Embedded NVR. 16-Ch;Acuses Analytics embedded</u> | | X 1 |
| Video And Audio | | |
| IP Video Input | 16-ch | |
| Incoming Bandwidth | 160 Mbps | |
| HDMI Output | 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz | |
| Outgoing Bandwidth | 160 Mbps | |
| VGA Output | 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz | |
| Audio Output | 1-ch, RCA (Linear, 1 KΩ) | |
| Two-Way Audio | 1-ch, RCA (2.0 Vp-p, 1kΩ) | |
| Decoding | | |
| Decoding Format | H.265/H.265+/H.264/H.264+/MPEG4 | |
| Decoding Capability | 2-ch @ 8 MP (25fps) / 4-ch @ 4MP (30fps) / 8-ch @ 1080p (30fps) | |
| Synchronous Playback | 16-ch | |
| Recording Resolution | 8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF | |

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| Network | | |
| Network Interface | 1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface | |
| Network Protocol | TCP/IP, DHCP, IPv4, Hik-Connect, DNS, DDNS, NTP, RTSP, SADP,SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS | |
| Auxiliary Interface | | |
| SATA | 2 SATA interfaces | |
| Capacity | Up to 6 TB capacity for each HDD | |
| USB Interface | Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0 | |
| Alarm In/Out | 4/1 | |
| General | | |
| Power Supply | 12 VDC | |
| Consumption | ≤15 W | |
| Working Temperature | -10 °C to 55 °C (14 °F to 131 °F) | |
| Working Humidity | 10 to 90 % | |
| Dimension (W × D × H) | 385 × 315× 52 mm (15.2" × 12.4" × 2.0") | |
| | ≤ 1 kg (2.2 lb) | |
| Supply | | Yes |
| Install | | Yes |
| | | |

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| 2. <u>Switch 4 Port 10/100TX PoE Industrial</u> | | | X 6 |
| Hardware Specifications | | | |
| Network Connector | 6 10/100/1000BASE -T RJ45 auto MDI/MDIX ports | | |
| PoE Inject Port | 4 ports with 802.3at/af PoE injector function (Ports1 to 4) | | |
| LED Display | System: Power Per PoE port: PoE Ethernet port: LNK | | |
| Thermal Fan | Fanless design | | |
| Switch Architecture | Store and Forward | | |
| MAC Address Table | 4K MAC address table with auto learning function | | |
| Switch Fabric | 12Gbps | | |
| Switch Throughput | 8.92Mpps @64 bytes | | |
| Jumbo Packet | 9K bytes | | |
| Flow Control | Back pressure for half duplex. IEEE 802.3x pause frame for full duplex | | |

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| | Power Requirements | 54V DC, 1.3A | |
| | ESD Protection | 6KV DC | |
| | Power Consumption | Max. 66.69 watts, 227.5 BTU | |
| | Power over Ethernet | | |
| PoE Standard | IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE | | |
| PoE Power Output | Per Port 54V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 54V DC, 600mA. max. 30 watts (IEEE 802.3at) | | |
| PoE Power Budget | 65 watts | | |
| | Standard Conformance | | |
| | EMI Safety | FCC Part 15 Class A, CE | |
| | Standard Compliance | IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000BASE-T IEEE 802.3x Flow Control and Back Pressure IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet (EEE) | |

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| Supply | |
| Install | |
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| 3. 2-MP Outdoor AcuSense Varifocal Bullet Camera | X 12 |
| Minimum Illumination: Colour: 0.002 lux @ (f/1.4, AGC on); 1920 x 1080 Resolution @ 30 fps; 2.8~12 mm Motorized Varifocal Lens; H.265+, H.265, H.264+, H.264; EXIR 2.0 Range Up to 60 m; 12 VDC and PoE+ (802.3at) | |
| Supply | |
| Install | |
| | |
| 4. 6m stainless steel pole | X6 |
| with field enclosure with staywires | |
| Supply | |
| Install | |
| | |
| 5. Digital Surveillance Hard Disk | |

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| Capacity | 6 TB | X 1 |
| Interface | SATA | |
| Form Factor | 3.5 Inch | |
| Recording Technology | CMR | |
| Supply | | |
| Install | | |
| | | |
| 6. Switches ProSafe 8 Port Gigabit | | X 7 |
| Switch Processing Scheme | Store-and-Forward | |
| Address Table | 4K | |
| Flow Control | Back pressure half duplex IEEE 802.3x pause frame full duplex | |
| Switch fabric | 16Gbps | |
| Throughput (packet per second) | 11.9Mpps | |
| 10/100/1000BASE-T Ports | 8 auto MDI/MDIX ports | |
| LED Display | One for Power, Two for 1000 & Link / Act per port | |
| Enclosure | Metal | |
| Dimensions (W x D x H) | 155 x 86 x 26 mm | |

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| <div> <div>Power Requirements (External power adapter)</div> <div>5V DC, 1A</div> </div> <div> <div>Power Consumption (100M Full Operation)</div> <div>3.4 watts / 11 BTU</div> </div> | |
| Supply | |
| Install | |
| 7. SpliceBox with connectors and assesories | X7 |
| Fiber splice box with connectors and accessories | |
| Supply | |
| Install | |
| 8. 1000Base-SX GBIC Module LC-Connector. SFP Transceiver 1000BASE-LX <i>SFP SINGLE MODE LC GBIC</i> Get Gigabit Ethernet "long-reach" fiber connectivity. The ProSAFE® GBIC Module is a LC duplex connector and meets SFP GBIC standard for use with any SFP GBIC compliant slot. <ul style="list-style-type: none"> Gigabit Ethernet "long-reach" fiber connectivity LC duplex connector Fits into SFP interfaces of all Fully Managed Switches Fits into SFP interfaces of all Smart Switches | X7 |

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| <ul style="list-style-type: none"> Fits into SFP interfaces of JGS524F | |
| Supply | |
| Install | |
| 9. Fibre Patchleads & Pigtails | X8 |
| 10. CBI SM 08 Fibre HDD Cable G657A1 | X350 |
| Supply | |
| Install | |
| 11. Network Dome Camera. | |
| 2.8mm,2-MP Infra-red Network Dome Camera. DWDR 120DB; IR up to 30m; DC12V / PoE | X6 |
| Supply | |
| Install | |
| | |
| NASREC ACCESS UPGRADE | |
| <ul style="list-style-type: none"> <u>Door Access Controller with Card Module</u> | |

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| <div>1. <u>Electrical Specifications – Cluster Controller</u></div> <div>Power</div> <div>Input Voltage : 12 V DC to 15 V DC</div> <div>Power Requirements: Current (mA) Power (W)</div> <div>12 V DC with no peripherals connected : 140 1.7</div> <div>Power Input Protection : Reverse polarity and over-current protection.</div> <div>Peripheral Communications Ports</div> <div>Clustering Feature (Baud Rate 115 200) :</div> <div>➤ Up to 8 Expansion Modules may be plugged side-to-side and into the Cluster Controller.</div> <div>S-Bus (Host) (Baud Rate 7 600):</div> <div>➤ This allows Expansion Modules (Like the WRM) and other S-Bus Devices to be installed up to 150m from the Cluster Controller. A Maximum of eight devices may be connected via S-Bus.</div> <div>Host Computer:</div> <div>➤ Standard Ethernet RJ45 connector. 10/100 Base T, half or fullduplex, Proprietary Protocol</div> <div>RS485 Door Controller Maximum 64 Addresses:</div> <div>➤ RS485, 38 400 Baud, 8 data bits, no parity, 1 stop bit, Secure Communications Protocol Provision is made for line termination</div> <div>RS485 System Controller Maximum 64 Addresses (Only in IXP220 mode.):</div> <div>➤ RS485, 38 400 Baud, 8 data bits, no parity, 1 stop bit, SecureCommunications Protocol Provision is made for line termination</div> <div>Real Time Clock Backup Battery (RTC)</div> <div>Battery Type:</div> <div>➤ 1 x 3 V, CR2032, Lithium cell battery</div> <div>Battery Life:</div> | |
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- 2 Years with power OFF
- 5 years with power ON
- 5 years storage with Battery Tab in place.

Processor

Type:

- 32-bit ARM Cortex M3
- Operating at 180 MHz
- Total RAM : 200 K Byte.
- Flash : 16 M Byte.

Other :

- Anti-tamper Switch : 1 PCB Mounted Micro-lever Switch.

2. Electrical Specifications – Cardreader Module

Power

Input Voltage :

- 12 V DC to 15 V DC, polarity sensitive

Power Requirements:

- Current (37mA) Power(0.44W)
- 12 V DC with no peripherals connected and relays off
- Reverse polarity and over-current protection are provided on the Module
- Relay Power Requirements : An additional ~0.4 W

Communications:

- Direct (Baud Rate 115 200)
- S-Bus (Baud Rate: 7600)
- Module Status : Slave

Digital Inputs:

- 2 Dry-contact inputs with End-of-line (EOL) Sensing
- 2 Dry-contact inputs without End-of-line (EOL) Sensing
- Protection Range : +15 V continuous

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| <p>Relay:</p> <p>Relay output:</p> <ul style="list-style-type: none"> ➤ 2 Relays, Form C, each with NO, COM and NC contacts ➤ Contact Ratings : 10 A at 28 V DC, 5 A at 220 V AC, 10 A at 120 V AC. ➤ Operations : 100 000 Minimum ➤ Power Consumption (per Relay) ~ 0.4 W <p>Processor:</p> <ul style="list-style-type: none"> ➤ ARM Cortex M0 operating at 45MHz ➤ Total RAM : 4 K Byte ➤ Flash : 48 K Byte <p>Other:</p> <ul style="list-style-type: none"> ➤ Anti-tamper Switch : 1 PCB Mounted Micro-lever Switch | |
| Install | |
| Supply | |
| | |
| <p>3. Maglocks</p> <p>136Kg</p> | X 12 |
| Supply | |
| Install | |
| <p>4. Bracket for 136 kg Maglock</p> | X 12 |
| Supply | |
| Install | |
| <p>5. RESETTABLE GREEN CALL POINT PERSPEX WITH HINGE</p> | X12 |

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| Supply | |
| Install | |
| <p style="text-align: center;"><u>Biometric Fingerprint Access Terminal</u></p> <ul style="list-style-type: none"> • CPU: ARM® Cortex™-A9 core 1GHz • Linux Operating System • FBI PIV IQS certified optical fingerprint sensor • Contactless reader options: Prox®, iClass®, MIFARE®/MIFARE® Plus/ DESFire®/NFC(1) • Network/Communication: <ul style="list-style-type: none"> - Ethernet, RS485, USB - Wi-Fi option • Power supply: <ul style="list-style-type: none"> - 12V-24V DC - Power over Ethernet (PoE), compatible with PoE+ switches • Internal storage capacity: 512MB Flash, 512MB RAM <ul style="list-style-type: none"> - 500 user records, extendable to 3,000 or 10,000 with license (*3 templates each, including 1 duress) - 250,000 IDs in authorized user list - 1 Million transaction logs • Inputs/outputs: Wiegand In & Out (customizable up to 512 bits), OSDP, Door Relay, 2 General Purpose Inputs | X 24 |

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| (including Door monitoring), 2 General Purpose Outputs <ul style="list-style-type: none"> • Tamper switches • Operating conditions: - Temperature: -20°C to 55°C (-4°F to 131°F) - Humidity: 10% to 80% (non condensing) <ul style="list-style-type: none"> • Ingress protection: IP65 • Mechanical impact protection: IK08(2) • HxWxD = 156*68*62 mm (6.14*2.68*2.44 inches) • Weight: 280 grams • EMC/Safety standards: - CE, CB, FCC, BIS - UL294 (for indoor use only) <ul style="list-style-type: none"> • RoHS, REACH and WEEE complian | |
| Supply | |
| Install | |
| <ul style="list-style-type: none"> • Silver Door Closer - medium duty, 40-80kg, | X 12 |
| Supply | |
| Install | |
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| <ul style="list-style-type: none"> • Battery Backup Power Supply: <ul style="list-style-type: none"> ➤ 220VAC/12VDC, SMPS, Low voltage cut-out, ➤ Over current protection, ➤ 7 & 17AH Battery. ➤ 3.2Amp | x 12 |
| Supply | |
| Install | |
| <ul style="list-style-type: none"> • CAT5 Cable - 100m Roll - CCA Solid core, Grey | X 3 |
| Supply | |
| Install | |
| <ul style="list-style-type: none"> • AS 12Volt 8AH - Gel Type Sealed Lead Acid Battery | X 12 |
| Supply | |
| Install | |

10. Access portal Software

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| | Access Portal LITE | Access Portal BASIC | Access Portal PRO | Access Portal ENTERPRISE |
|--|------------------------------|-------------------------------|-----------------------------|------------------------------------|
| Number of sites | 1 | 1 | 25 | 1,000 |
| Doors | | | | |
| Doors per site | 16 | 100 | 200 | 500 |
| Doors per system | 16 | 100 | 5,000 | 10,000 |
| Credential holders | | | | |
| Credential holders per site | 1,000 | 1,000 | 5,000 | 1,000,000 |
| Credential holders per system | 1,000 | 1,000 | 125,000 | 1,000,000 |
| Credentials per person | 3 | 3 | 4 | 10,000 |
| Security | | | | |
| User operator security profiles | 1 | 1 | Unlimited | Unlimited |
| Access groups per site | 8 | 100 | 5,000 | 10,000 |
| Access groups per system | 8 | 100 | 125,000 | 250,000 |
| Installation | | | | |
| Auto hardware configuration | ✓ | ✓ | ✓ | ✓ |
| Embedded (i.e. no software to configure) | ✓ | - | - | - |
| SQL | - | ✓ | ✓ | ✓ |
| General features | | | | |
| Time limited access | ✓ | ✓ | ✓ | ✓ |
| Suspension facilities | ✓ | ✓ | ✓ | ✓ |
| Buffered transactions | ✓ | ✓ | ✓ | ✓ |
| Duress codes | - | ✓ | ✓ | ✓ |
| Biometrics | - | ✓ | ✓ | ✓ |
| Dashboard | - | ✓ | ✓ | ✓ |
| Dual tag | - | ✓ | ✓ | ✓ |
| Operator security profiles | - | Limited | ✓ | ✓ |
| Visitor book | - | - | ✓ | ✓ |
| Virtual IO | - | - | ✓ | ✓ |
| Scheduled tour | - | - | ✓ | ✓ |
| Threat level | - | - | ✓ | ✓ |
| Elevator control | - | - | ✓ | ✓ |
| Translations | ✓ | ✓ | ✓ | ✓ |

11. Portal Cluster Controller, Wiegand Module, IPS Box - c/w

- 1 Wiegand Reader module, Supports 2 Wiegand Readers,
- 220Volt AC

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| Model name | Access In a box Wiegand | Wiegand module (IPS) | Multi-discipline reader |
|--|--|--|---|
| Part number(s) | HBW901 | HMW901 | HRW900 |
| Product description | Single cluster controller & wiegand reader module in lockable metal box with power supply, 2 readers, 10 Mifare tags | 1x Wiegand reader Module for use in IPS housing | 2 x Non-keypad RFID MDR reader |
| Colour | Black | N/A | Silver and black |
| Interface | Web based URL user interface | Diagnostic LEDs | Operation LEDs and sound |
| Dimensions (d-w-h) | 8.2cm x 38.3cm x 31.3cm [3.22" x 15.1" x 22.3"] | 5.7cm x 9.9cm x 18.6cm [2.3" x 3.9" x 7.3"] | 2.1cm x 4.5cm x 9.7cm [0.8" x 1.8" x 3.8"] |
| Approximate product weight | 4.4 kg [9.7 oz] | 300 g [10.5 oz] | 15 g (0.53 oz) ea. |
| Material | Black powder-coated metal | ABS plastic | ABS plastic + metal cover |
| Electrical specifications | | | |
| Input voltage | 88 - 132 VAC or 176 - 264 VAC (manually switched) | 12 - 15 VDC polarity sensitive | 11 - 14 VDC polarity sensitive |
| Output voltage | 13.8 ± 0.3 VDC | N/A | - |
| Maximum continuous output current | 5A | - | - |
| Power requirements at 12 VDC, relays off | - | 140 mA current 1.7 W power | 90 mA current 1.08 W power |
| Relay power requirements | - | Additional 0.4W per relay in use | - |
| Power input protection | Meanwell switch mode power supply | Reverse polarity and transient voltage protection | - |
| Digital input type | - | Four dry-contact inputs with end of line sensing | - |
| Relay outputs | - | Two single-pole, double-throw (SPDT) relays with NO, COM and NC contacts | - |
| Relay contact ratings | - | 10 A at 28 VDC 5 A at 220 VDC 12 A at 120 VAC | - |
| System specifications | | | |
| Processor | Arm Cortex M0 operating at 45 MHz | | |
| Memory | 4 KB RAM, 48 KB Flash Memory | | |
| Embedded software | Access Portal Lite | | |
| Other specifications | | | |
| Card compatibility | 125kHz and 13.56MHz RFID tag support | N/A | 125kHz and 13.56MHz RFID tag support |
| Anti-tamper protection | IPS mounted switch | PCB mounted switch | Optical tamper |
| RTC | 1 x 3 V CR2032 Lithium cell battery, 2 yrs operating life, 5 yrs storage life | | |
| Environmental specifications | | | |
| Operating temperature | -25° to +60° C [-13° to +140° F] | | |
| Storage temperature | -40° to +80° C [-40° to +176° F] | | |
| Operating humidity | 0 to 95% relative humidity non-condensing (at +40° C / +104° F) | | |
| Environmental rating | IP20 | N/A | IP54 |
| Certifications | | | |
| CE (EU) | ✓ | | |
| UL (US)/ RoHS | ✓ | | |
| SABS (RSA) | ✓ | | |

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| 1. Portal Cluster Controller with Wiegand Module <ul style="list-style-type: none"> ➤ Plastic Housing, c/w 1 Wiegand Reader module ➤ Supports 2 Wiegand Readers, ➤ 12Volt AC | X 12 |
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| Model name | Cluster Controller | Cluster Controller for IPS |
|------------------------------|---|---|
| Part number(s) | HCM 940 | HCM941 |
| Product description | Cluster controller unit without LCD | IPS Cluster controller unit |
| Colour | Black | Uncovered PCB board |
| LCD | - | - |
| Enrollment | - | - |
| Interface in Lite mode | Web based URL | Web based URL |
| Dimensions (d-w-h) | 18.6cm x 9.9cm x 5.7cm 7.3" x 3.9" x 2.3" | 8.2cm x 38cm x 31cm 3.2" x 15" x 12.2" |
| Approximate product weight | 211 g (10.5 oz) | 5.45 kg (12 lb) |
| Material | ABS plastic | N/A |
| Electrical specifications | | |
| Input voltage | 12 - 15 VDC polarity sensitive | |
| Power requirements at 12 VDC | 140 mA current 1.7 W power | |
| Power input protection | Reverse polarity, over current and transient voltage protection | |
| System specifications | | |
| Processor | 32-bit ARM Cortex M3 operating at 180MHz | |
| Memory | 200 KB RAM, 16 MB Flash Memory | |
| Other specifications | | |
| Tag functionality | 10,000 | |
| Buffered transfers | 100,000 | |
| RTC | 1 x 3 V, CR2032 Lithium cell battery. 2 yrs operating life, 5 yrs storage life | |
| Card compatibility | | |
| Type | Mifare iClass HID H1021, H10302 and H10304 HiTag Impro 125kHz and 13.56MHz s1m tag, omega tag, quad transmitter | |
| | | |
| Type | PCB mounted switch | IPS mounted switch |
| | | |
| Operating temperature | -25° to +60° C [-13° to +140° F] | |
| Storage temperature | -40° to +80° C [-40° to +176° F] | |
| Operating humidity | 0 to 75% relative humidity non-condensing (at +40° C / +104° F) | |
| Environmental rating | IP20 | |
| Certifications | | |
| UL (US) | On request | |
| CE (EU) | ✓ | |
| SABS (RSA) | ✓ | |
| RoHS | ✓ | |