

AXIS D2110-VE Security Radar

Reliable area protection with 180° coverage 24/7

AXIS D2110-VE Security Radar is a smart network-based security device that uses advanced radar technology to deliver wide 180° coverage. Thanks to built-in analytics developed using machine learning and deep learning, it can accurately detect, classify and track people and vehicles with a low false alarm rate. Featuring PoE-out it's easy to connect and power an additional device, such as a camera for visual verification or a network horn speaker for deterrence. Furthermore, smart coexistence functionality allows the use of multiple radars close to each other. For instance, it's possible to mount two radars back-to-back for complete 360° coverage.

- > Extensive 180° area coverage
- > Built-in analytics
- > Low false alarm rate 24/7
- > Smart coexistence functionality
- > PoE-out to power additional devices





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| Radar Sensor | Phosed array EMCW (Frequency Modulated Continuous Ways) | | Status LED activation Send SNMP trap |
|---|--|---|---|
| Object data | Phased array FMCW (Frequency Modulated Continuous Wave) Range, direction, velocity, object type | Data streaming | Event data |
| Frequency | 24.05–24.25 GHz | | Analytics data with object GPS ^d position and velocity |
| RF transmit power | <100 mW (EIRP) License free. Unharmful radio-waves. | Built-in installation aids | Reference map calibration, sensor for tilt angle, GPS position ^d |
| Recommended | 3.5 m (11 ft) ^a | General | |
| mounting height Detection range | 3-60 m (10–200 ft) when detecting a person | Casing | IP66-, NEMA 4X- and IK08-rated Aluminum and plastic casing Color: White NCS S 1002-B |
| J | 3–85 m (10–280 ft) when detecting a vehicle | Sustainability | PVC free |
| Radial speed | Up to 55 km/h (34 mph) | Memory | 1024 MB RAM, 512 MB Flash |
| Field of detection Horizontal: 180° | | Power | Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4, Typical |
| Distance accuracy | 0.7 m (2.3 ft) | | 11 W, max 15 W Power over Ethernet (PoE) IEEE 802.3bt, Type 3 Class 5 required for PoE Out 8–28 V DC, typical 10 W, max 15 W |
| Angle accuracy | 1° | | |
| Spatial differentiation | 3 m ^b | Connectors | DC input RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE |
| Data refresh rate | 10 Hz | | RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE output to power |
| Coverage | 5600 m ² (61000 sq ft) for persons 11300 m ² (122000 sq ft) for vehicles | | an external PoE device Relay: 2-pin terminal block I/O: 6-pin 2.5 mm terminal block for four configurable |
| Object classification | Humans, vehicles, unknown | | inputs/outputs |
| Radar controls | Multiple detection zones, crossline detections, and exclude zones with filters for short-lived objects, object speed, and object type. | Relays | 1x 1 form A, 1 NO, max 5A, 24 V DC Expected lifetime 25,000 operations |
| | adar transmission on/off, coexistence, reference map with otation and cropping, grid opacity, zone opacity, color scheme, rail lifetime, detection sensitivity, swaying object filter | Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see <i>axis.com</i> | |
| Video | | Operating conditions | -40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing) |
| Video compression | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG | Storage conditions | -40 °C to 65 °C (-40 °F to 149 °F) |
| Resolution | 1920x1080 HDTV 1080p to 640x360 | Approvals | Radio EN 300440, EN 301489-1, EN 301489-51, EN 62311, FCC Part 15 Subpart C EMC EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2, EN 61000-6-4, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), KC KN32 Class A, RCM AS/NZS CISPR 32 Class A, VCCI Class B, EAC Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 |
| Frame rate | Up to 10 fps in all resolutions | | |
| Video streaming | Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 | | |
| Image settings | Compression, rotation: 0°, 90°, 180°, 270° including Corridor Format, dynamic text and image overlay | | |
| Network | | | Environment |
| Security | Password protection, IP address filtering, HTTPS ^c encryption, IEEE 802.1X (EAP-TLS) ^c network access control, digest authentication, user access log, centralized certificate | | IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14 IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK08, NEMA 250 Type 4X |
| | management, brute force delay protection, signed firmware | Dimensions | 285 x 206 x 152 mm (11.2 x 8.1 x 6.0 in) |
| Supported protocols | IPv4/v6, HTTP, HTTP/2, HTTPS ^c , SSL/TLS ^c , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT, Syslog | Weight | 2.4 kg (5.3 lb) |
| | | Included accessories | Installation guide, connector kit, pipe adapters, cable gland, cable gaskets, Windows decoder 1–user license |
| System integra | tion | Optional accessories | AXIS T91R61 Wall Mount AXIS T91B47 Pole Mount |
| Application Programming Interface | Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at <i>axis.com</i> ONVIF® Profile G and ONVIF® Profile S, specification at <i>onvif.org</i> | accessories | AXIS 191847 Fole Would AXIS 194R01B Corner Bracket AXIS 18415 Wireless Installation Tool For more accessories, see axis.com |
| Analytics | Radar Motion Detection (detect, track, and classify objects), Radar autotracking Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap | Supporting software | AXIS Radar Autotracking for PTZ (Slew to Cue) For supported cameras, see axis.com/products/axis-radar-autotracking |
| Event conditions | Analytics, object data, supervised external input, edge storage events, time scheduled Radar data failure | Video management software | AXIS Camera Station, video management software from Axis Application Development Partners available on axis.com/support/downloads |
| Event actions | Casing open, shock detected File upload: FTP, SFTP, HTTPS, network share and email | Languages | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese |
| Event actions | Notification: email, HTTP, HTTPS, network snare and email Notification: email, HTTP, HTTPS and TCP External output activation, relay activation Video recording to edge storage Pre- and post-alarm video buffering Overlay text | go to axís.com | 5-year warranty, see axis.com/warranty ther height affects the detection range. For more information, ce between moving objects. |

meras, see /axis-radar-autotracking on, video management software from evelopment Partners available on rench, Spanish, Italian, Russian, Simplified Korean, Portuguese, Traditional Chinese ee axis.com/warranty he detection range. For more information, bjects.

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c. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).
d. Enter the radar's GPS position manually to get the objects' GPS position in the data stream.

Environmental responsibility: axis.com/environmental-responsibility

