

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			Casing open, shock detected
Sensor	Phased array FMCW (Frequency Modulated Continuous Wave)	Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email
Object data	Range, direction, velocity, object type		Notification: email, HTTP, HTTPS and TCP
Frequency	24.05-24.25 GHz		External output activation, relay activation Video recording to edge storage Pre- and post-alarm video buffering Overlay text Status LED activation Send SNMP trap
RF transmit power	<100 mW (EIRP) License free. Unharmful radio-waves.		
Recommended mounting height	3.5 m (11 ft) ^a		
Detection range	3–60 m (10–200 ft) when detecting a person 3–85 m (10–280 ft) when detecting a vehicle	Data streaming	Event data Analytics data with object GPS ^d position and velocity
Radial speed	Up to 55 km/h (34 mph)	Built-in installation aids	Reference map calibration, sensor for tilt angle, GPS position ^d
Field of detection	Horizontal: 180°	General	
Distance accuracy	0.7 m (2.3 ft)	Casing	IP66-, NEMA 4X- and IK08-rated Aluminum and plastic casing
Angle accuracy	1°		Color: White NCS S 1002-B
Spatial	3 mb	Sustainability	PVC free
differentiation	3 111	Memory	1024 MB RAM, 512 MB Flash
Data refresh rate	10 Hz	Power	Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4, typical
Coverage	5600 m ² (61000 sq ft) for persons 11300 m ² (122000 sq ft) for vehicles		11 W, max 15 W Power over Ethernet (PoE) IEEE 802.3bt, Type 3 Class 5 or Axis Midspan 60 W required for PoE Out
Object classification	Humans, vehicles, unknown		8–28 V DC, typical 10 W, max 15 W
Radar controls	Multiple detection zones, crossline detections, and exclude zones with filters for short-lived objects, object speed, and object type. Radar transmission on/off, coexistence, reference map with rotation and cropping, grid opacity, zone opacity, color scheme, trail lifetime, detection sensitivity, swaying object filter	Connectors	DC input RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE output to power an external PoE device Relay: 2-pin terminal block I/O: 6-pin 2.5 mm terminal block for four configurable
Video			inputs/outputs
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	Relays	1x 1 form A, 1 NO, max 5A, 24 V DC Expected lifetime 25,000 operations
Resolution	1920x1080 HDTV 1080p to 640x360	Su Re	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
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	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)
Image settings	VBR/ABR/MBR H.264/H.265 Compression, rotation: 0°, 90°, 180°, 270° including corridor	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
image sectings	format, dynamic text and image overlay	Approvals	Radio
Audio			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, IN 150 (1000-1000-1000-1000-1000-1000-1000-10
Audio streaming	Audio output via edge-to-edge technology		
Audio input/output	Network speaker pairing		
Network			ICES-3(A)/NMB-3(A), KC KN32 Class A, RCM AS/NZS CISPR 32 Class A, VCCI Class B, EAC
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 management, brute force delay protection, signed firmware		Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14,
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, IGMPv1/v2/v3, DNS, DNS, DNS, DNS, COSCO, C		IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK08, NEMA 250 Type 4X
		Dimensions	285 x 206 x 152 mm (11.2 x 8.1 x 6.0 in)
	RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1, Syslog	Weight	2.4 kg (5.3 lb)
System integra	tion	Included accessories	Installation guide, connector kit, pipe adapters, cable gland,
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>	Optional accessories	cable gaskets, Windows® decoder 1-user license AXIS T91R61 Wall Mount AXIS T91B47 Pole Mount AXIS T94R01B Corner Bracket AXIS T94R5 Wireless Installation Tool For more accessories, see axis.com
Analytics	Radar Motion Detection (detect, track, and classify objects), Radar autotracking		
Event conditions	Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap Analytics, object data, supervised external input, edge storage	Supporting software	AXIS Radar Autotracking for PTZ (Slew to Cue) For supported cameras, see axis.com/products/axis-radar-autotracking
	events, time scheduled Radar data failure		ans.com/products/unis-radar-adtotracking

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Video management software	AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

a. Mounting at another height affects the detection range. For more information, go to axis.com

b. Minimum distance between moving objects.
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

