

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		Network	IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^c , TLS ^c , QoS Laye	
Settings	Area Monitoring Profile Road Monitoring Profile	protocols	3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH,	
Sensor	Phased array FMCW (Frequency Modulated Continuous Wave)		LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)	
Object data	Range, direction, velocity, object type	System integra	rtion	
Frequency	24.05–24.25 GHz	Application	Open API for software integration, including VAPIX® and	
RF transmit power	<100 mW (EIRP) License free. Unharmful radio-waves.	Programming Interface	AXIS Camera Application Platform; specifications at axis.com One-click cloud connection	
Recommended mounting height	3.5 m (11 ft) ^a		ONVIF® Profile G, ONVIF® Profile S, ONVIF® Profile T, and ONVIF® Profile M specification at <i>onvif.org</i>	
Detection range	Area Monitoring Profile: 3–60 m (10–200 ft) when detecting a person 3–85 m (10–280 ft) when detecting a vehicle Road Monitoring Profile: 30–60 m (98–197 ft) at 105 km/h (65 mph) Check the user manual for the recommended positioning	Analytics Event conditions	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 Analytics, object data, supervised external input, edge storage events, time scheduled Radar data failure	
Radial speed	Area Monitoring Profile: up to 55 km/h (34 mph) Road Monitoring Profile: up to 105 km/h (65 mph)		Casing open, shock detected MQIT subscribe	
Field of detection	Horizontal: 180°	Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email	
Speed accuracy	+/- 2 km/h (1.25 mph)		Notification: email, HTTP, HTTPS and TCP	
Distance accuracy	0.7 m (2.3 ft)		External output activation, relay activation MQTT publish Video recording to edge storage	
Angle accuracy	1°		Pre- and post-alarm video buffering	
Spatial differentiation	3 m ^b		Overlay text Status LED activation Send SNMP trap	
Data refresh rate	10 Hz	Data streaming	Event data	
Coverage	5600 m ² (61000 sq ft) for persons 11300 m ² (122000 sq ft) for vehicles	Data streaming	Analytics data with object GPS ^d position and velocity	
Coexistence zone	Frequency band: 24 GHz Radius: 350 m (1148 ft) Recommend number of radars: up to 6	Built-in installation aids	Reference map calibration, sensor for tilt angle, GPS position ^d	
Object	Humans, vehicles, unknown	General	IDOO NEMA W. LUKOO	
classification Radar controls	Multiple detection zones, crossline detections, and exclude zones	Casing	IP66-, NEMA 4X- and IK08-rated Aluminum and plastic casing Color: White NCS S 1002-B	
nadar controls	with filters for short-lived objects, object speed, and object type.	Sustainability	PVC free	
	Radar transmission on/off, coexistence, reference map with rotation and cropping, grid opacity, zone opacity, color scheme, trail lifetime, detection sensitivity, swaying object filter	Power	Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4, typical 11 W, max 15 W Power over Ethernet (PoE) IEEE 802.3bt, Type 3 Class 5 or	
System on chip	(SoC)		Axis Midspan 60 W required for PoE Out	
Model	ARTPEC-7		8-28 V DC, typical 10 W, max 15 W	
Memory	1024 MB RAM, 512 MB Flash	Connectors	DC input	
Video			RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE output to power	
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		an external PoE device Relay: 2-pin terminal block I/O: 6-pin 2.5 mm terminal block for four configurable	
Resolution	1920x1080 HDTV 1080p to 640x360		inputs/outputs	
Frame rate	Up to 10 fps in all resolutions	Relays	1x 1 form A, 1 NO, max 5A, 24 V DC Expected lifetime 25,000 operations	
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	Storage	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	
lmage settings	Compression, rotation: 0°, 90°, 180°, 270° including corridor format, dynamic text and image overlay	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)	
Audio		Storage	-40 °C to 65 °C (-40 °F to 149 °F)	
Audio streaming	Audio output via edge-to-edge technology	conditions	10 2 20 00 2 (40 1 20 140 1)	
Audio input/output	Network speaker pairing	Approvals	Radio	
Network			EN 300440, EN 301489-1, EN 301489-51, EN 62311, FCC Part 15 Subpart C	
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		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	

T10129634/EN/M23.2/2301 www.axis.com

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	Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-1 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)
Weight	2.4 kg (5.3 lb)
Included accessories	Installation guide, connector kit, pipe adapters, cable gland, cable gaskets, Windows® decoder 1-user license
Optional accessories	AXIS T91R61 Wall Mount AXIS T91B47 Pole Mount AXIS T94R01B Corner Bracket AXIS T8415 Wireless Installation Tool For more accessories, see axis.com
Applications	Radar motion detection (detect, track, and classify objects) AXIS Speed Monitor 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		
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		
,	other 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.

