

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 Settings	Area Monitoring Profile		SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)
Settings	Road Monitoring Profile	System integra	rtion
Sensor	Phased array FMCW (Frequency Modulated Continuous Wave)	Application	Open API for software integration, including VAPIX® and
Object data	Range, direction, velocity, object type	Programming Interface	AXIS Camera Application Platform; specifications at axis.com
Frequency	24.05-24.25 GHz	interrace	One-click cloud connection ONVIF® Profile G, ONVIF® Profile S, ONVIF® Profile T, and
RF transmit power	<100 mW (EIRP) License free. Unharmful radio-waves.	Analytics	ONVIF® Profile M specification at <i>onvif.org</i> Radar Motion Detection (detect, track, and classify objects),
Recommended mounting height	3.5 m (11 ft) ^a	, , , , ,	Radar autotracking Support for AXIS Camera Application Platform enabling
Detection range	Area Monitoring Profile: 3-60 m (10-200 ft) when detecting a		installation of third-party applications, see axis.com/acap
	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	Event conditions	Analytics, object data, supervised external input, edge storage events, time scheduled Radar data failure Casing open, shock detected MQTT subscribe
Radial speed	Area Monitoring Profile: up to 55 km/h (34 mph) Road Monitoring Profile: up to 105 km/h (65 mph)	Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP External output activation, relay activation
Field of detection	Horizontal: 180°		MQTT publish
Speed accuracy	+/- 2 km/h (1.25 mph)		Video recording to edge storage
Distance accuracy	0.7 m (2.3 ft)		Pre- and post-alarm video buffering Overlay text Status LED activation
Angle accuracy	1°		Send SNMP trap
Spatial differentiation	3 m (9 ft) ^b	Data streaming	Event data Analytics Analytics CRSC position and valority
Data refresh rate	10 Hz	Built-in	data with object GPS ^c position and velocity
Coverage	5600 m ² (61000 sq ft) for persons 11300 m ² (122000 sq ft) for vehicles	installation aids	Reference map calibration, sensor for tilt angle, GPS position ^c
Coexistence zone	Frequency band: 24 GHz	General	IP66-, NEMA 4X- and IK08-rated
	Radius: 350 m (1148 ft) Recommend number of radars: up to 6	Casing	Aluminum and plastic casing Color: White NCS S 1002–B
Object classification	Humans, vehicles, unknown	Sustainability	PVC free
Radar controls	Multiple detection zones, line crossing detection with one or two lines, 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,	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 Axis Midspan 60 W required for PoE Out 8–28 V DC, typical 10 W, max 15 W
	trail lifetime, detection sensitivity, swaying object filter	Connectors	DC input
System on chip			RJ45 1000BASE-T PoE RJ45 1000BASE-T PoE output to power an external PoE device
Model	ARTPEC-7		Relay: 2-pin terminal block
Memory	1024 MB RAM, 512 MB Flash		I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs
Video Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile	Relays	1x 1 form A, 1 NO, max 5A, 24 V DC Expected lifetime 25,000 operations
compression	Motion JPEG	Storage	Support for microSD/microSDHC/microSDXC card
Resolution	1920x1080 HDTV 1080p to 640x360		Support for SD card encryption (AES-XTS-Plain64 256bit)
Frame rate	Up to 10 fps in all resolutions		Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
lmage settings	Compression, rotation: 0° , 90° , 180° , 270° including corridor format, dynamic text and image overlay	Approvals	Radio EN 300440, EN 301489-1, EN 301489-51, EN 62311,
Audio			FCC Part 15 Subpart C
Audio streaming	Audio output via edge-to-edge technology		EMC EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2,
Audio input/output	Network speaker pairing		EN 61000-6-4, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), KC KN32 Class A,
Network	IDIANG ICMBANICMBAG HTTD HTTD/2 HTTDC TIC Occious 2		RCM AS/NZS CISPR 32 Class A, VCCI Class B, EAC
Network protocols	IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS, TLS, QoS Layer 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,		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 IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66, IEC/EN 62262 IK08, NEMA 250 Type 4X

T10129634/EN/M28.2/2309 www.axis.com

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, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty

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 b. Minimum distance between moving objects.
 c. Enter the radar's GPS position manually to get the objects' GPS position in the data stream.