

## **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





## AXIS D2110-VE Security Radar

Radar		System integra	tion	
Settings	Area Monitoring Profile	Application Programming Interface		
	Road Monitoring Profile		Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com	
Sensor	Phased array FMCW (Frequency Modulated Continuous Wave)		One-click cloud connection ONVIF® Profile G, ONVIF® Profile S, ONVIF® Profile T, and	
Object data	Range, direction, velocity, object type		ONVIF® Profile M specification at onvif.org	
Frequency	24.05–24.25 GHz	Analytics	Radar Motion Detection (detect, track, and classify objects),	
RF transmit power	<100 mW (EIRP) License free. Unharmful radio-waves.		Radar autotracking Support for AXIS Camera Application Platform enabling	
Recommended mounting height	3.5 m (11 ft) <sup>a</sup>	Event conditions	installation of third-party applications, see <i>axis.com/acap</i> Analytics, object data, supervised external input, edge storage	
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)	Event actions	events, time scheduled Radar data failure Casing open, shock detected MQTT subscribe File upload: FTP, SFTP, HTTP, HTTPS, network share and email	
Radial speed	Check the user manual for the recommended positioning  Area Monitoring Profile: up to 55 km/h (34 mph)		Notification: email, HTTP, HTTPS and TCP External output activation, relay activation MQTT publish Video recording to edge storage Pre- and post-alarm video buffering	
Field of detection	Road Monitoring Profile: up to 105 km/h (65 mph)			
Speed accuracy	+/- 2 km/h (1.25 mph)		Overlay text	
Distance	0.7 m (2.3 ft)		Status LED activation Send SNMP trap	
accuracy	0.7 III (2.3 It)	Data streaming	Event data	
Angle accuracy	1°	Data streaming	Analytics data with object GPS <sup>d</sup> position and velocity	
Spatial differentiation	3 m <sup>b</sup>	Built-in	Reference map calibration, sensor for tilt angle, GPS position <sup>d</sup>	
Data refresh rate	10 Hz	installation aids	2	
Coverage		General		
	5600 m <sup>2</sup> (61000 sq ft) for persons 11300 m <sup>2</sup> (122000 sq ft) for vehicles	Casing	IP66-, NEMA 4X- and IK08-rated Aluminum and plastic casing	
Object classification	Humans, vehicles, unknown		Color: White NCS S 1002-B	
Radar controls	Multiple detection zones, crossline detections, and exclude zones	Sustainability	PVC free	
	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	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	
System on chip	o (SoC)	Connectors	DC input	
Model	ARTPEC-7		RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE output to power an external PoE device	
Memory	1024 MB RAM, 512 MB Flash			
Video			Relay: 2-pin terminal block	
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		I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs	
Resolution	1920x1080 HDTV 1080p to 640x360	Relays	1x 1 form A, 1 NO, max 5A, 24 V DC Expected lifetime 25,000 operations	
Frame rate	Up to 10 fps in all resolutions	Storage	Support for microSD/microSDHC/microSDXC card	
Video streaming	Motion JPEG Recording to network-att Controllable frame rate and bandwidth For SD card and NAS reco	Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see <i>axis.com</i>		
Image settings	VBR/ABR/MBR H.264/H.265  Compression, rotation: 0°, 90°, 180°, 270° including corridor	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)	
Audio	format, dynamic text and image overlay	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)	
Audio streaming	Audio output via edge-to-edge technology	Approvals	Radio	
Audio input/output	Network speaker pairing		EN 300440, EN 301489-1, EN 301489-51, EN 62311, FCC Part 15 Subpart C	
Network			EMC EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2,	
Security	Password protection, IP address filtering, HTTPS <sup>c</sup> encryption, IEEE 802.1X (EAP-TLS) <sup>c</sup> network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware		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	
Network protocols	IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>c</sup> , TLS <sup>c</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>TM</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)	Dimension	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 IKO8, NEMA 250 Type 4X	
		Dimensions	285 x 206 x 152 mm (11.2 x 8.1 x 6.0 in)	

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2.4 kg (5.3 lb)	Video manag softwa Langua	
Installation guide, connector kit, pipe adapters, cable gland, cable gaskets, Windows® decoder 1-user license		
AXIS T91R61 Wall Mount AXIS T91B47 Pole Mount		
AXIS T94R01B Corner Bracket	Warra	
AXIS T8415 Wireless Installation Tool		
For more accessories, see axis.com	a. Moun	
Radar motion detection (detect, track, and classify objects) AXIS Speed Monitor Radar autotracking	b. Minin c. This p Opens	
Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	d. Enter datas	
AXIS Radar Autotracking for PTZ (Slew to Cue) For supported cameras, see axis.com/products/axis-radar- autotracking	Environm axis.com	
	Installation guide, connector kit, pipe adapters, cable gland, cable gaskets, Windows® decoder 1-user license  AXIS T91R61 Wall Mount AXIS T91B47 Pole Mount AXIS T94R01B Corner Bracket AXIS T94R01B Corner Bracket AXIS T8415 Wireless Installation Tool For more accessories, see axis.com  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  AXIS Radar Autotracking for PTZ (Slew to Cue) For supported cameras, see axis.com/products/axis-radar-	

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

o axis.com immundistance between moving objects. product includes software developed by the OpenSSL Project for use in the product includes software developed by the OpenSSL Project for use in the nSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young @cryptsoft.com). er the radar's GPS position manually to get the objects' GPS position in the a stream.

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