

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			Support for AXIS Camera Application Platform enabling
Sensor	Phased array FMCW (Frequency Modulated Continuous Wave)		installation of third-party applications, see axis.com/acap
Object data	Range, direction, velocity, object type		Analytics, object data, supervised external input, edge storage events, time scheduled Radar data failure Casing open, shock detected MQTT subscribe
Frequency	24.05–24.25 GHz		
RF transmit power	<100 mW (EIRP) License free. Unharmful radio-waves.		
Recommended mounting height			File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP
Detection range	3–60 m (10–200 ft) when detecting a person 3–85 m (10–280 ft) when detecting a vehicle	External output activation, relay activation MQTT publish Video recording to edge storage	
Radial speed Up to 55 km/h (34 mph)			Pre- and post-alarm video buffering
Field of detection	Horizontal: 180°		Overlay text Status LED activation
Distance	0.7 m (2.3 ft)		Send SNMP trap
accuracy	1°	Data streaming	Event data Analytics data with object GPS ^d position and velocity
Angle accuracy	·	Duilé in	
Spatial differentiation	3 m ^b	Built-in installation aids	Reference map calibration, sensor for tilt angle, GPS position ^d
Data refresh rate		General	IDCC NEMA AV and IVOC mated
Coverage	5600 m ² (61000 sq ft) for persons 11300 m ² (122000 sq ft) for vehicles	Casing	IP66-, NEMA 4X- and IK08-rated Aluminum and plastic casing Color: White NCS S 1002-B
Object classification	Humans, vehicles, unknown	Sustainability	PVC free
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	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 (SoC)		Connectors	DC input RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE
Model	ARTPEC-7		RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE output to power
Memory	1024 MB RAM, 512 MB Flash	Relays	an external PoE device Relay: 2-pin terminal block I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs 1x 1 form A, 1 NO, max 5A, 24 V DC
Video			
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		
Resolution	1920x1080 HDTV 1080p to 640x360		Expected lifetime 25,000 operations
Frame rate	Up to 10 fps in all resolutions	Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS)
Video streaming	Multiple, individually configurable streams in H.264, H.265 and		
·····g	Motion JPEG		For SD card and NAS recommendations see axis.com
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)
Image settings	Compression, rotation: 0°, 90°, 180°, 270° including corridor format, dynamic text and image overlay	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Audio		Approvals	Radio
	Audio output via edge-to-edge technology		EN 300440, EN 301489-1, EN 301489-51, EN 62311, FCC Part 15 Subpart C EMC
Audio input/output	Network speaker pairing		
Network			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,
Security	Password protection, IP address filtering, HTTPS ^C encryption,		ICES-3(A)/NMB-3(A), KC KN32 Class A,
,	IEEE 802.1X (EAP-TLS) ^C network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware		RCM AS/NZS CISPR 32 Class A, VCCI Class B, EAC Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22
Supported	IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^c , TLS ^c , QoS Layer		Environment
protocols	3 DiffServi, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)		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
		Dimensions	285 x 206 x 152 mm (11.2 x 8.1 x 6.0 in)
System integration		Weight	2.4 kg (5.3 lb)
Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF® Profile G, ONVIF® Profile S, and ONVIF® Profile T, specification at onvif.org	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
		Radar autotracking	

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	For more accessories, see axis.com
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

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

