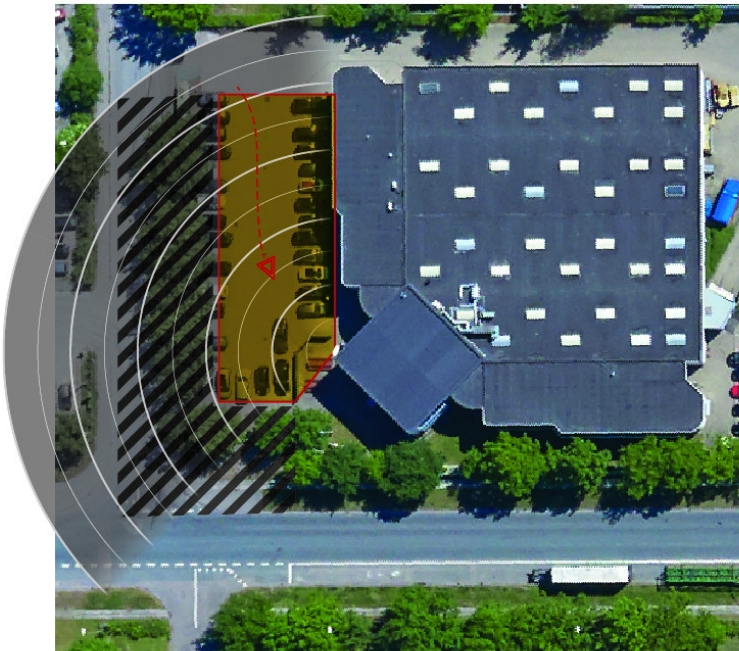


# AXIS D2050-VE Network Radar Detector

## Accurate breach detection

AXIS D2050-VE Network Radar Detector is a reliable and accurate radar which detects approaching trespassers on your premises and provides accurate incident notifications in all weather conditions around the clock. With 120 degrees horizontal detection coverage and up to 50 meter/164 feet range, AXIS D2050-VE delivers exact position, angle of movement, and velocity of a moving object. Vandal protected and robust in outdoor environments, AXIS D2050-VE minimizes false alarms triggered by rain, snow, insects, or shadows. AXIS D2050-VE serves as a complement to video surveillance and enables filtering on distance, customizable detection zones, and AXIS Radar Autotracking for PTZ cameras.

- > **Accurate incident notifications at night and in all weather conditions**
- > **Ability to filter on distance**
- > **120 degrees horizontal detection and up to 50 meter/164 feet range**
- > **Compatible with major VMS suppliers**
- > **Power over Ethernet Plus (PoE+)**



# AXIS D2050-VE Network Radar Detector

<b>Radar</b>		Status LED activation Send SNMP trap
<b>Sensor</b>	Phased array FMCW (Frequency Modulated Continuous Wave)	
<b>Object data</b>	Range, direction, velocity, object type	
<b>Frequency</b>	24.05–24.25 GHz (channels 1 and 2)	<b>Data streaming</b> Event data Analytics data with object GPS <sup>e</sup> position and velocity
<b>RF transmit power</b>	<100 mW (EIRP) License free. Unharmful radio-waves.	<b>Built-in installation aids</b> Reference map calibration
<b>Recommended mounting height</b>	3.5 m (11 ft) <sup>a</sup>	<b>General</b>
<b>Detection range</b>	Min: 4.5 m (15 ft) <sup>b</sup> Max: up to 50 m (164 ft) <sup>b</sup>	<b>Casing</b> IP66-, NEMA 4X- and IK08-rated Aluminum and plastic casing Color: White NCS S 1002-B
<b>Radial speed</b>	Up to 55 km/h (34 mph)	<b>Sustainability</b> PVC free
<b>Field of detection</b>	Horizontal: 120°	<b>Memory</b> 1024 MB RAM, 512 MB Flash
<b>Distance accuracy</b>	0.9 m (3 ft)	<b>Power</b> Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4, typical 9 W, max 15 W
<b>Angle accuracy</b>	± 0.5°	<b>Radar angle adjustment</b> Horizontal positions: 0° (default), -25°, +25° <sup>f</sup>
<b>Spatial differentiation</b>	2.5 m <sup>c</sup>	<b>Connectors</b> RJ45 10BASE-T/100BASE-TX PoE Relay: 2-pin terminal block I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs
<b>Data refresh rate</b>	10 Hz	<b>Relays</b> 1x 1 form A, 1 NO, max 5A, 24 V DC Expected lifetime 25,000 operations
<b>Coverage</b>	2500 m <sup>2</sup> (27000 sq ft)	<b>Storage</b> 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 <a href="http://axis.com">axis.com</a>
<b>Object classification</b>	Small object, human, vehicle	<b>Operating conditions</b> -40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)
<b>Radar controls</b>	Filter, multiple detection areas, reference map, grid opacity, color scheme, trail lifetime, detection sensitivity	<b>Storage conditions</b> -40 °C to 65 °C (-40 °F to 149 °F)
<b>Video</b>		<b>Approvals</b> Radar EN 300440 EMC EN 55032 Class A, EN 301489-1, EN 301489-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC 47 CFR PT 15.249 and RSS-310 issue 4, FCC 47CFR 15B Class A, ICES-003 Class A <b>Safety</b> IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 <b>Environment</b> 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
<b>Video compression</b>	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG	<b>Dimensions</b> 285 x 206 x 152 mm (11.2 x 8.1 x 6.0 in)
<b>Resolution</b>	1920x1080 HDTV 1080p to 640x360	<b>Weight</b> 2.5 kg (5.5 lb)
<b>Frame rate</b>	Up to 30 fps in all resolutions	<b>Included accessories</b> Installation guide, connector kit, pipe adapters, cable gland, cable gaskets, Windows decoder 1-user license
<b>Video streaming</b>	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/ABR/MBR H.264	<b>Optional accessories</b> AXIS T91R61 Wall Mount AXIS T91B47 Pole Mount AXIS T94R01B Corner Bracket AXIS T8415 Wireless Installation Tool For more accessories, see <a href="http://axis.com">axis.com</a>
<b>Image settings</b>	Compression, rotation: 0°, 90°, 180°, 270° including Corridor Format, dynamic text and image overlay	<b>Supporting software</b> AXIS Radar Autotracking for PTZ (Slew to Cue) For supported cameras, see <a href="http://axis.com/products/axis-radar-autotracking">axis.com/products/axis-radar-autotracking</a>
<b>Audio</b>		<b>Video management software</b> AXIS Camera Station, video management software from Axis Application Development Partners available on <a href="http://axis.com/support/downloads">axis.com/support/downloads</a>
<b>Audio streaming</b>	Audio output via edge-to-edge technology	<b>Languages</b> English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
<b>Audio input/output</b>	Network speaker pairing	<b>Warranty</b> 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>
<b>Network</b>		
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>d</sup> encryption, IEEE 802.1X (EAP-TLS) <sup>d</sup> network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware	
<b>Supported protocols</b>	IPv4/v6, HTTP, HTTP/2, HTTPS <sup>d</sup> , SSL/TLS <sup>d</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>TM</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQTT v3.1.1, Syslog	
<b>System integration</b>		
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a> ONVIF <sup>®</sup> Profile G and ONVIF <sup>®</sup> Profile S, specification at <a href="http://onvif.org">onvif.org</a>	
<b>Analytics</b>	Radar Motion Detection, Autotracking, Crossline, Speed filter Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://axis.com/acap">axis.com/acap</a>	
<b>Event conditions</b>	Analytics, object data, external input, edge storage events, time scheduled Radar motion detection Casing open	
<b>Event actions</b>	File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP External output activation, relay activation Video recording to edge storage Pre- and post-alarm video buffering Overlay text	

- Mounting at another height affects the detection range. For more information, go to [axis.com](http://axis.com)
- Measured at 3.5 m (11 ft) mounting height, when detecting a person.
- Minimum distance between moving objects.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](http://openssl.org)), and cryptographic software written by Eric Young ([eyay@cryptsoft.com](mailto:eyay@cryptsoft.com)).
- Enter the radar's GPS position manually to get the objects' GPS position in the data stream.
- Internal radar module

Environmental responsibility:

[axis.com/environmental-responsibility](http://axis.com/environmental-responsibility)