

AXIS F2107-RE Standard Sensor

5 MP discreet standard sensor

This sensor unit delivers 5 MP and a 110° horizontal field of view. With a small cylinder-shaped form factor, AXIS F2107-RE offers discreet installation. Designed to work with AXIS F91 Main Units, it can be combined with up to three other sensor units for maximum flexibility. Reliable under rough conditions, it has an operating temperature range from -40 °C to 60 °C (-40 °F to 140 °F). It's compatible with the same accessories as other F21 sensors to simplify procurement, installation, and upgrade. Furthermore, this rugged sensor features SMA connectors and can withstand shock and vibration.

- > **High-quality 5 MP resolution**
- > **110° horizontal field of view**
- > **Rugged sensor unit with SMA connector**
- > **Can be installed in vehicles and machinery**
- > **IP66-/IP67-/IP6K9K-rated**



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Camera

Image sensor

1/2.78" progressive scan RGB CMOS
Pixel size 2.0 µm

Lens

Fixed focal, 2.8 mm, F2.2
Horizontal field of view: 110°
Vertical field of view: 80°
Minimum focus distance: 0.5 m (1.6 ft)
M12 mount, fixed iris

Day and night

Fixed IR-cut filter

Minimum illumination

Color: 0.25 lux at 50 IRE, F2.2

Resolution

2592x1944 5Mp
2560x1940 QuadHD

Frame rate

Up to 30/25 fps (60/50 Hz) in 5MP and up to 60/50 fps (60/50 Hz) in quad HD¹

WDR

Forensic WDR: Up to 120 dB depending on scene

Approvals

EMC

CISPR 35, CISPR 32 Class A, EN 55035,
EN 55032 Class A, EN 61000-6-1, EN 61000-6-2
Japan: VCCI Class A
Korea: KS C 9835, KS C 9832 Class A
USA: FCC Part 15 Subpart B Class A

Safety

CAN/CSA C22.2 No. 62368-1 ed. 3,
IEC/EN 62368-1 ed. 3, IEC/EN 60950-22, UN ECE R118

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14,
IEC 60068-2-27, IEC 60068-2-64, IEC 60068-2-78,
IEC TR 60721-4-5 Class 5M3 (Vibration Shock),
IEC/EN 60529 IP66/IP67,
IEC/EN 61373 Category 1 Class B,
ISO 21207 (Method B), ISO 20653 IP6K9K, NEMA 250
Type 4X

Cybersecurity

Documentation

AXIS OS Hardening Guide

Axis Vulnerability Management Policy

Axis Security Development Model

AXIS OS Software Bill of Material (SBOM)

To download documents, go to axis.com/support/cybersecurity/resources

To read more about Axis cybersecurity support, go to axis.com/cybersecurity

General

Casing

IP66-, IP67-, IP6K9K-², and NEMA 4X-rated
Aluminum casing
Color: black NCS S 9000-N

Power

Typical 1 W, max 1.8 W

Sustainability

PVC and BFR/CFR free

Connectors

SMA connector

Operating conditions

Temperature: -40 °C to 60 °C (-40 °F to 140 °F)
Humidity: 10–100% RH (non-condensing)

Storage conditions

Temperature: -40 °C to 65 °C (-40 °F to 149 °F)
Humidity: 5–95% RH (non-condensing)

1. For sensor units and main units capture mode specifications, see capture mode table.
2. In combination with a cable that has the same IP-rating

Dimensions

For the overall product dimensions, see the dimension drawing in this datasheet.

59 mm (2.3 in)

ø 29.8 mm (1.2 in)

Weight

54 g (0.1 lb)

Box content

Sensor, installation guide

Required hardware

AXIS TU6004-E Cable, AXIS TU6005 Plenum Cable, AXIS F91 Main Unit, AXIS TU6007-E Cable

Optional accessories

AXIS TU6002 Right-angle SMA adaptor

For more accessories, go to axis.com/products/axis-f2107-re-standard-sensor#accessories

System tools

AXIS Site Designer, AXIS Device Manager, product selector, accessory selector, lens calculator

Available at axis.com

Languages

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

Warranty

5-year warranty, see axis.com/warranty

Part numbers

Available at axis.com/products/axis-f2107-re-standard-sensor#part-numbers

Sustainability

Substance control

PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709

RoHS in accordance with EU RoHS Directive 2011/65/EU and 2015/863, and standard EN IEC 63000:2018

REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu

Materials

To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

Environmental responsibility

axis.com/environmental-responsibility

Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

Capture mode

Capture mode includes frame rate and shutter speed for the sensor unit in combination with different main units.

Main unit	Resolution	Exposure	Frame rate (fps) (60/50Hz)	Shutter speed (seconds)
AXIS F9111, AXIS F9111-R Mk II	5 MP: 2592x1944	Without WDR	30/25	1/16000 to 1 s
		WDR	20/20	1/18000 to 1 s
	Quad HD: 2560x1440	Without WDR	60/50	1/27000 to 1/2 s
		WDR	30/25	1/18000 to 1 s
AXIS F9114	5 MP: 2592x1944	Without WDR	10/10	1/16000 to 1 s
		WDR	10/10	1/11000 to 2 s
	Quad HD: 2560x1440	Without WDR	15/12.5	1/15000 to 1 s
		WDR	15/12.5	1/11000 to 2 s
AXIS F9114-R Mk II, AXIS F9114-B Mk II, AXIS F9104-B Mk II	5 MP: 2592x1944	Without WDR	20/20	1/18000 s to 1 s
		WDR	20/20	1/18000 s to 1 s
	Quad HD: 2560x1440	Without WDR	30/25	1/18000 s to 1 s
		WDR	30/25	1/18000 s to 1 s

Highlighted capabilities

IP69

IP ratings (ingress protection) are defined as a two-digit code where the first digit is the level of protection against the intrusion of solid foreign objects and the second digit is the level of protection against the intrusion of water.

IP69 – the product is dust-tight and hot pressure water can't harm the product.

Rugged

Rugged is a term that for Axis modular and onboard products describes a device's endurance and stability in high vibration environments – over time. High vibration environments could be inside or close to machinery or inside vehicles. Rugged products from Axis are constructed to keep operating in these challenging conditions for the entire lifetime of the product.

For more information, see [axis.com/glossary](https://www.axis.com/glossary)