

AXIS F2105-RE Standard Sensor

Discreet standard sensor with 1080p

AXIS F2105-RE offers 1080p at 60 fps or 720p at 180 fps with AXIS F9111, an excellent 108° field of view, and good low-light performance in color. It uses cables (up to 30 m/ 98 ft) from Axis with SMA-FAKRA connectors to withstand vibrations and ensure a ruggedized installation. Based on a divided network camera concept, it offers discreet installation and only a small sensor visible externally. Reliable under rough conditions, this ruggedized sensor unit can withstand temperatures as low as -40 °C and as high as 70 °C intermittently (-40 °F to 158 °F).

- > Up to 60 fps at 1080p
- > Up to 180 fps at 720p
- > Excellent 108° field of view
- > Rugged sensor unit
- > IP66/IP67/IP6K9K-rated



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Camera

Image sensor

1/2.8" progressive scan RGB CMOS

Lens

3.1 mm, F2.0

For 1080p:

Horizontal field of view: 108°

Vertical field of view: 58°

For 720p:

Horizontal field of view: 70°

Vertical field of view: 39°

M12 mount, fixed iris

Minimum illumination

Color: 0.1 lux

Day and night

Fixed IR-cut filter

Frame rate

Up to 60/50 fps (60/50 Hz) in 1080p and up to 180/175 fps (60/50 Hz) in 720p¹

General

Casing

IP66-, IP67-, IP6K9K-², NEMA 4X-rated

Aluminum

Color: black NCS S 9000-N

Sustainability

PVC free

Power

Typical 1 W, max 1.7 W

Connectors

SMA connector

Operating conditions

-40 °C to 60 °C (-40 °F to 140 °F)

Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)

Start-up temperature: -40 °C (-40 °F)

Humidity 10–100% RH (condensing)

Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

Approvals

EMC

EN 55032 Class A, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35, EAC, ECE R10 rev.05 (E-mark)

Safety

IEC/EN/UL 62368-1, CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 60950-22, CAN/CSA-C22.2 No. 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, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9), ISO 21207 (Method B), ISO 20653 IP6K9K

Dimensions

46 mm (1.8 in)

ø 29.8 mm (1.2 in)

Weight

50 g (0.1 lb)

Required hardware

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

Included accessories

Installation guide

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

Optional accessories

For more accessories, see axis.com

Warranty

5-year warranty, see axis.com/warranty

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	1080p: 1920x1080	Without WDR	60/50	1/27000 to 1 s
		WDR	30/25	1/20000 to 1.5 s
	720p: 1280x720 ³	Without WDR	180/175	1/32500 to 1/2 s
AXIS F9114	1080p: 1920x1080	Without WDR	30/25	1/20000 to 1.5 s
		WDR	30/25	1/20000 to 1.5 s
	720p: 1280x720 ³	Without WDR	60/50	1/32500 to 1/2 s
AXIS F9114-R Mk II, AXIS F9114-B Mk II, AXIS F9104-B Mk II	1080p: 1920x1080	Without WDR	30/25	1/20000 s to 1.5 s
		WDR	30/25	1/20000 s to 1.5 s
	720p: 1280x720 ³	Without WDR	60/50	1/32500 s to 1/2 s
AXIS F9111-R Mk II	1080p: 1920x1080	Without WDR	60/50	1/43500 s to 1 s
		WDR	30/25	1/20000 s to 1.5 s
	720p: 1280x720 ³	Without WDR	180/175	1/32500 s to 1/2 s

3. No WDR support for 720p: 1280x720. To get WDR, use 1080p: 1920x1080 and scale down.