

TCO-60

Hazardous Area **Inspection Camera**



50 MP Camera

High-resolution imaging

Zone 2/22

ATEX & IECEx certified

3× Optical Zoom

Detailed remote inspection

256 GB

Local image storage

6.36" Display

Bright pOLED touchscreen

USB-C Transfer

Simple offline workflow

The Armadex TCO-60 is a certified hazardous area inspection camera for use in Zone 2 and Zone 22 environments. It combines a professional triple camera system with a large pOLED touchscreen to deliver high-quality image capture for industrial inspections, maintenance and asset documentation.

Images are stored locally and transferred via a standard USB-C connection outside the hazardous area, providing a simple, reliable workflow without the need for cloud services, subscriptions or proprietary software.

General Camera Specifications

Feature	Specification
Rear camera system	Triple camera
Main camera resolution	50 MP
Ultra-wide camera	13 MP
Telephoto camera	10 MP
Front camera	32 MP
Optical zoom	3×
Hybrid zoom	Up to 30×
Optical image stabilisation	Main and telephoto cameras
Autofocus	Phase Detection Autofocus (PDAF)
HDR photography	Supported
Macro photography	Supported
Video recording	Up to 4K UHD



Dimensions	188 × 108 × 22 mm
Weight	502 g

Detailed Camera Specifications

Feature	Main	Ultra-Wide	Telephoto	Front
Resolution	50 MP	13 MP	10 MP	32 MP
Sensor	Sony LYTIA™ 700C	—	—	—
Aperture	f/1.8	f/2.2	f/2.0	f/2.4
Pixel size	1.0 μm	1.12 μm	1.0 μm	0.7 μm
Pixel technology	Ultra Pixel (2.0 μm)	—	—	Quad Pixel (1.4 μm)
Autofocus	Quad PDAF	PDAF	PDAF	—
Optical image stabilisation	Yes	—	Yes	—
Field of view	Standard	120°	Telephoto	Standard
Macro photography	—	Yes	—	—

Explosion Safety Specifications

ATEX Zones	Zone 2 (Gas) and Zone 22 (Dust)	EU Directive	2014/34/EU (ATEX 114)
ATEX Marking – Gas	II 3G Ex nR IIC T6 Gc	IECEx Marking – Gas	Ex nR IIC T6 Gc
ATEX Marking – Dust	II 3D Ex tc IIIC T85°C Dc	IECEx Marking – Dust	Ex tc IIIC T85°C Dc
Type Examination Cert.	OBAC 26ATEX0194X	IECEx Certificate	IECEx OBAC 26.0005X
Applied ATEX Standards	EN IEC 60079-0:2018, EN IEC 60079-15:2019, EN IEC 60079-31:2024	Applied IECEx Standards	IEC 60079-0:2017, IEC 60079-15:2017, IEC 60079-31:2022



TCO-60

Certifications - ATEX and IECEx

The TCO-60 is built on the certified Armadex Ex UniCase enclosure. The ATEX and IECEx certificates shown below are issued under the product name **Armadex Ex UniCase Small, Medium or Large** (OBAC 26ATEX0194X and IECEx OBAC 26.0005X).

