

# Explosion Proof Camera

## Armadex Ex-M OZC 2

### ATEX Zone 2 Certified



Equipment for Hazardous Areas

#### Key Benefits

- Suitable for ATEX Zone 2
- Tough, Lightweight Camera Chassis
- 5X Optical Wide-Angle Zoom Lens
- Digital Microscope Mode
- 6 LED Ring Light
- Movie SR+; Movie Shake Reduction
- Splash-Proof Housing (IP66)

II 3G Ex h ic IIC, IIB, IIA T4 Gc



#### ATEX Certified Digital Camera

The ARMADEX Ex-M OZC 2 is the only explosion proof camera that is equipped with a 5x optical zoom function. The ATEX Camera is suitable for use in ATEX Zone 2 (Gas). The compact yet rugged camera body is shockproof against drops up to 2.1m, splash proof housing (IP66), freezeproof up to -10 degrees Celsius and dustproof.

Only 246 grams including battery and housing suitable for rough outdoor environments. The Wide-Angle Optical Zoom Lens delivers crystal clear pictures. Stabilized images and videos with MovieSR+ software. On a fully charged battery, an estimated 340 still images may be taken on auto mode. Rapid and secure file transfer is achieved through USB-C (Type 3) connectivity. The OZC 2 is specifically optimized for taking up-close shots of precision machinery, such as microchips. In addition to that the Digital Microscope Mode allows for taking pictures of objects from 1cm distance. In combination with 5x optical and 8.1x digital zoom (total 40.5x zoom), the OZC 2 captures the most extreme details of any object. With advanced imaging software the OZC 2 offers great low-light performance. In addition to that the OZC 2 features a 6 LED ring flash. This is especially useful because ATEX cameras may not be equipped with a xenon flash tube due to ATEX regulations.

The ATEX Camera is converted in-house by our experts, as is the case for all our ATEX Equipment.

Please note that due to ATEX Regulations, **the xenon flash tube is disabled**.

#### Explosion Safety Specifications (ATEX)

EU Directive	2014/34/EU (ATEX114)
ATEX marking gas	II 3G Ex h ic IIC T4 Gc
ATEX Zone	2 (3G)
Applied standards	EN 60079-0:2012 +A11:2013 EN 60079-11:2012 EN ISO 80079-36:2016

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## Full ATEX Camera Specifications

These are the specifications of the OEM Ricoh WG-6 product. Please note that the ARMADEx Ex-M OZC 2 comes without flash functionality and has a splash proof housing (IP66).

<b>Lens</b>	<b>Name</b>	RICOH lens, 11 elements in 9 groups (5 aspherical elements)
	<b>Focal length</b>	5 – 25 mm
	<b>In 35mm format equivalent</b>	Approx. 28 – 140mm
	<b>Maximum Aperture</b>	F3.5(W) – F5.5(T)
<b>Zoom</b>	<b>Optical Zoom</b>	5X
	<b>Digital Zoom</b>	approx. 8.1X
	<b>Intelligent zoom</b>	approx. 7X at 10M, approx. 40.5X at 640 (including optical zoom)
<b>Motion Blur Reduction</b>	<b>Still</b>	Pixel Track SR Hi-sensitivity anti-shake mode (Digital SR)
	<b>Movie</b>	Movie shake reduction mode (Movie SR, Movie SR+)
<b>Focus</b>	<b>Type</b>	9-point AF, Spot AF, Auto tracking AF
	<b>Focus range (from lens face)</b>	<ul style="list-style-type: none"> <li>• Standard: 0.5m – infinity / 1.64ft. – infinity (entire zoom range)</li> <li>• Macro: 0.1 – 0.6m / 0.33 – 1.97ft. (entire zoom range)</li> <li>• 1cm Macro: 0.01 – 0.3m / 0.03 – 0.98ft. (middle zoom position)</li> <li>• Infinity-landscape, Pan Focus, Manual Focus: available</li> </ul>
<b>Number of Effective pixels</b>	Approx. 20 megapixels	
<b>Image Sensor</b>	1/2.3" CMOS	

<b>Number of Recorded pixels</b>	<b>Still</b>	Size: L(20M), M(10), S(5M), XS(3M), 2M, 1M, VGA • ( ) in aspect 4:3. • 2M and 1M are available only in the CALS mode. Aspect: 4:3, 3:2, 1:1 • In the CALS mode, the aspect ratio is fixed to 4:3.
	<b>Movie</b>	4K, 1920, 1280
<b>Sensitivity</b>	Standard output sensitivity: AUTO, Manual (ISO 125 – 6400)	
<b>White Balance</b>	Auto, Daylight, Shade, Cloudy, Tungsten light, Fluorescent light(D:Daylight Color, N:Daylight White, W:White Light, L:Warm White), Ring light, Manual	
<b>Display</b>	<b>Type</b>	3.0" (aspect ratio 3:2) LCD, approx. 1040K dots, AR Coating(Cover only)
	<b>Adjustments</b>	Brightness, Outdoor View Setting: ±2 Steps
<b>Exposure Control</b>	<b>Metering System</b>	Multi-segment metering, Center-weighted metering, Spot metering
	<b>Exposure Compensation</b>	± 2EV ( 1/3EV steps)
<b>Scene modes</b>	Auto Picture, Program, HDR, Handheld Night Snap, Movie, High Speed Movie, Digital Microscope, Landscape, Flower, Portrait, Underwater, Underwater Movie, Interval Shot, Interval Movie, Surf & Snow, Kids, Pet, Sport, Night Scene, Fireworks, Digital SR, Report, Green, Depth of field composition	
<b>Face detection</b>	Face Detection AF&AE is available for all modes up to 30 faces. Smile Capture, Self-portrait Assist, Self-portrait Assist + Smile Capture, Blink Detection	
<b>Pet detection</b>	Detect up to 1 pet's face(auto)	



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<b>Playback modes</b>	Slideshow, Image Rotation, Small Face Filter, Ink Rubbing Filter, Digital Filter(B&W / Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature), HDR Filter, Movie Edit, Red-eye Edit, Resize, Cropping, Image Copy, Protect, Start-up Screen, Recover File, Auto Image Rotation
<b>Shutter speed</b>	1/4000 – 1/4sec.(Mechanical and electronic shutter), 4sec at most. (Night Scene mode setting)
<b>Drive modes</b>	One shot, Self-timer, Continuous Shooting, Burst Shooting, M Continuous, S Continuous, Remote Control, Auto Bracketing
<b>Storage media</b>	Built-in Memory (approx. 27MB), SD/SDHC/SDXC Memory Card, FlashAir™ Card
<b>Power source</b>	Rechargeable Battery DB-110, AC Adapter Kit K-AC166(Optional)
<b>Battery life</b>	Still*1: approx. 340 shots (Rechargeable Battery) Playback*2: approx. 260 min. (Rechargeable Battery)
<b>Interfaces</b>	USB3.0(Type-C), HDMI output terminal(Type D)
<b>Water proof / DustDust-proof</b>	Equivalent to JIS Class 8 waterproof and JIS Class 6 dustproof capabilities

<b>Dimensions</b>	Approx. 118.2 (W)x65.5 (H)x33.1 (D)mm /4.7 (W) x2.6 (H)x1.3 (D) inches (including lens depth)
<b>Weight</b>	Approx. 246g / 8.6 oz. (Included dedicated battery and SD memory card),Approx. 219g / 7.7 oz.(Body only)
<b>Included accessories</b>	Rechargeable Battery DB-110, USB Power Adapter, Power Plug, USB Cable I-USB173, Hand Strap
<b>Languages</b>	English, French, Germany, Spanish, Portuguese, Italy, Dutch, Japanese, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkey, Greek, Russian, Thai, Korean, Simplified Chinese, Traditional Chinese
<b>GPS</b>	<ul style="list-style-type: none"> <li>• GPS, GLONASS, QZSS+ SBAS</li> <li>• GPS display mode: LAT/LON, UTM, MGRS</li> <li>• GPS log, GPS lock, GPS time adjustment, GPS data imprint, UTC data imprint</li> </ul>
<b>Electronic compass</b>	Compass heading: Cardinal, Degrees, Cardinal/Degrees Declination, Compass data imprint

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#### EU Declaration of Conformity

##### ATEX DIRECTIVE 2014/34/EU



No. EX-M22ATEX2321X.EU

#### The product:

Model: ATEX Zone 2 Explosion Proof Camera with Optical Zoom  
Type: Armadex EX-M OZC 2  
Consisting of: Camera PCB, Optical Zoom Motor, LED Ring Flash, Lens Actuator and Battery  
Supply: Rechargeable Battery 3.6 VDC, rated current max. 312 mA,

Marking affixed:   II 3G Ex h ic IIC T4 Gc

#### The manufacturer:

Ex-Machinery Explosion Proof Equipment B.V., Tinstraat 33, 2984 AN, Ridderkerk, The Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

**ATEX DIRECTIVE 2014/34/EU: "Concerning equipment and protective systems intended for use in potentially explosive atmospheres"**

#### References to the relevant harmonized standards:

The following harmonized standards are applied in relation to which conformity is declared:

EN 60079-0:2012 + A11:2013 EN 60079-11:2012 EN ISO 80079-36:2016

#### Additional information considered relevant to this declaration:

(X) Specific conditions of use are specified in the accompanying user manual of the product

#### Signed for and on behalf of

Ex-Machinery,

  
G.A. van Tienhoven M.Sc. Engineering  
Managing Director

Ex-Machinery  
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Ridderkerk, 14-04-2022

THIS DECLARATION IS NOT A WARRANTY OF ATTRIBUTES WITHIN THE MEANING OF THE LAW CONCERNING PRODUCT LIABILITY. THE SAFETY INSTRUCTIONS GIVEN IN THE INSTALLATION MANUAL MUST BE OBSERVED. THE APPARATUS SHALL ONLY BE OPERATED UNDER THE CONDITIONS AS DESCRIBED IN THE USER MANUAL

