

# TECHNICAL DATASHEET



## iCAM 502



### Intrinsically Safe Autofocus Handheld Digital Camera

Take high quality images in your hazardous areas for improved inspection, compliance, and maintenance

ATEX & IECEx Zone 0, 1, 2, and M1 mining certified

US & Canada Class I Division 1 certified

Highly rugged, designed for harsh environments

Advanced autofocus lens for pin-sharp images

Add voice annotations for more information

Suitable for varied light conditions with powerful LED flash array

Large storage memory and easy transfer of data to any computer

Easy to use with image sharpness analysis and anti-shake

Lightweight, ergonomic, and IP65 rated

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Extronics Released

# SPECIFICATION



Certification	<p>Ⓔ II 1 G Ex ia IIB T4/T3 Ga, II 2 G Ex ia IIC T4/T3 Gb, -20°C ≤Ta≤ +60°C I M1 Ex ia I Ma 0°C ≤Ta≤ +60°C cMETus Intrinsically Safe for Class I, Division 1, Groups A, B, C, D T4/T3C -20°C ≤Ta≤ 55/50°C</p>
Compliance	<p><b>EMC:</b> EN 55022 1998 class B, EN 55024 1999 <b>LV:</b> EN 60950 2002 <b>FCC:</b> Class A device, compliance through verification route</p>
Ingress protection	IP65
Dimensions	132 x 32 x 22 mm (5.20 x 1.26 x 0.87 in)
Weight	Approximately 200g, including batteries
Operating temperature	Group II -20°C to +60°C / Group I 0°C to +60°C
Relative humidity	95% non-condensing
Housing	Injection moulded antistatic plastic housing, supplied with antistatic silicone rubber boot for additional shock protection
Power	<p>2 x Alkaline AA batteries. <b>Note:</b> please refer to Certificates and Safety Instructions for details on range of approved batteries. Batteries may not be carried or changed in Group I (mining) hazardous areas.</p>
Power modes	Operate and auto power-down (after 3 mins)
Battery life	<p>Up to 600 shots without flash and up to 100 shots with flash taken one after the other. 170 shots as per the CIPA DC-002 standard (mixed mode shots with and without flash) <b>Note:</b> this is an estimate, other factors should be considered such as ambient temperature, how long the camera is powered up, number of voice recordings made, or how long and often it is connected for data transfer.</p>
Memory	On board 1GB NAND Flash (holds approx. 5,000 JPEG images without any audio recording and additional 960Kbytes per min for audio)
Image	3.1 Mega-Pixel (2048 x 1536 resolution)
Lens	Autofocus lens, effective focal length 3.39mm, F2.8, 68° diagonal field of view
Focal distance	5cm to infinity
View finder	Two element optical view finder
Flash	4 LED flash giving 131 lux.seconds of energy at 67ms exposure
Connectivity	USB 1.1 via mini-USB socket for use in the safe area only. Certified for direct connection to a PC without requiring an external protection barrier

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OS support	PTP imaging device in Windows XP/Vista/7-32/64, 8-32/64, 8.1 32/64, 10-32/64 and most versions of Linux. USB firmware upgrade utility for Windows XP/Vista/7-32/64, 8-32/64, 8.1-32/64, 10-32/64 only.
Audio recording format	wav
Image format	jpeg
Time and date	Time and date stamping of stored images and file names Time and date set via Picture Transfer Protocol (PTP) automatically

## ORDERING INFORMATION

ICAM502	iCAM502 Intrinsically safe zone 0 digital camera including rubber casing, lanyard, and 2 x AA batteries
A250084	Additional removable silicon rubber casing