



iCAM501 Ultra

Intrinsically Safe Digital Camera



Zone 0 ● Super Bright 4 LED Flash ● Voice Annotations ● Anti Shake ● 3.1 Mega Pixel
1GB Memory ● User Upgradeable ● Rugged Housing ● Compact & Lightweight ● Simple Data Transfer





iCAM501 Ultra

Intrinsically Safe Digital Camera

Create visual and audio records in the hazardous area...

ATEX II 1 G Ex ia IIB T4 Ga, II 2 G Ex ia IIC T4 Gb, $-20^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$

M1 Ex ia I Ma $0^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$

IECEX Ex ia IIB T4 Ga, Ex ia IIC T4 Gb,
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IP65

The iCAM501 Ultra intrinsically safe digital stills camera is the perfect visualisation tool for use in hazardous areas. ATEX and IECEx certified, the iCAM501 Ultra can be used in all sectors of industry including Chemical & Pharmaceutical plants, Oil & Gas production platforms, Refineries, Mining and Emergency Services to name but a few.

Made of rugged injection moulded anti static plastic, the iCAM501 Ultra is IP65 rated and is suitable for use in the most arduous environments. Due to its long slim lightweight enclosure weighing less than 200g, the iCAM501 Ultra lends itself to single handed operation, making it convenient to carry in your pocket.

Equipped with its super bright 4 LED flash array, high performance lens, anti shake and image sharpness technology, the iCAM501 Ultra provides high quality images in all hazardous area environments and in all conditions.

Data transfer to any computer in the safe area is simple and easy to undertake via a USB port utilising Picture Transfer Protocol (PTP) which is initiated automatically.

All images are date and time stamped to create a chronological history and are coupled to the unique function of Voice Annotation Audio records, which are systematically matched to the image filename.



Downloading files is easy - open the rear of the camera using a coin to access the USB port. Then simply connect the camera to any PC and downloading begins automatically.

The iCAM501 Ultra allows you to add audio records to your photographs



Rugged Housing

The iconic injection moulded anti static plastic housing is IP65 rated and suitable for use in the most arduous environments. The removable silicone rubber casing provides additional protection and increased grip, particularly when wearing protective gloves.

Compact and Lightweight

The long slim camera enclosure lends itself to single handed operation and weighing less than 200g is convenient to carry in your pocket.

Super Bright 4 LED Flash Array

The powerful integrated flash allows for picture capture in very poor light conditions, from low light to total darkness.

Voice Annotations

Never forget – record voice notes to store a .wav file with the same filename as the image taken for detailed reports.

Advanced Image Analysis Software

The camera takes 4 images each time it is used and then selects the best image to save to memory. High quality images are produced every time, minimizing the possibility of blurring and the effects of shake.

User Upgradeable

Field upgradeable firmware via USB allows future upgrades to be carried out by the user.

High Performance Lens

High resolution images provide greater detail of equipment or larger areas such as plant rooms and buildings. Allows high quality images to be taken at distances of 30cm upwards.

1GB Memory

Allows for a much higher level of visual/audible data storage. Hold approximately 5,000 JPEG images without any audio recording and additional 960 Kbytes per minute for audio.

Simple Data Transfer

3 Simple Steps – open, connect via a USB port and transfer data utilising the Picture Transfer Protocol (PTP). Certified for direct connection to any PC in the safe area without requiring an external protection barrier.

Powered by Primary Cells

Certified for use with leading brand alkaline cells means the camera is always ready to use any time, any place.

The iCAM501 Ultra fits easily in a top pocket





Extronics – “Making Hazardous Areas Safer”

Founded in 1992, Extronics is a leading global designer and manufacturer of intrinsically safe and explosion proof equipment. From our UK headquarters, we serve customers that work in potentially explosive environments, especially those in the chemical, pharmaceutical, petrochemical, oil and gas industries. As a result of a substantial investment programme in both R&D and technical skills, the company has developed considerable expertise in vision technologies, engineered solutions and wireless technologies for the hazardous area.

Wireless Networks

Over the last few years, Extronics has led the way in helping companies to unlock their data from hazardous areas via standards-based wireless technology. Through innovative product development, technical design capability & technical partnerships with companies such as Cisco® and Aruba®, Extronics has become recognised as a leader in this particular field. Applications once deemed impractical and costly are now a commercial reality.

Vision Technologies

Extronics is a world leader in vision technologies for hazardous areas. This expertise includes the design and production of the world’s first intrinsically-safe digital camera, the iCAM501 Ultra, as well as innovative monitoring solutions, video monitors and HMI’s.

Purge & Explosion Proof Engineering

The Extronics engineering team possesses the expertise and experience necessary to create bespoke engineering solutions based upon the various concepts of protection in hazardous environments. This engineering expertise has enabled Extronics to create a range of innovative Ex d solutions which are available as standard items – dramatically reducing both lead time and production costs. These include the iUPS range of uninterruptible power supplies and the iSTART range of motor starters. Every application, regardless of complexity, is supported by comprehensive documentation.

Personnel & Asset Tracking

Personnel and asset tracking solutions are of particular importance to companies with designated hazardous areas. Extronics wireless expertise provides the framework for the delivery of a range of Active & Passive RFID based tracking solutions. Solutions designed to dramatically improve worker safety, production efficiency and asset management.



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