



## PDS Design Solutions Ltd

tel: 01279 219175, email, [sales@whatpowersupply.com](mailto:sales@whatpowersupply.com)

### PDSiCAM501 Intrinsically Safe Zone 0 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***

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

***Group 1 M1 mining certification pending***

***-20°C to +60°C***

***IP65***

#### Overview

The PDSiCAM501 intrinsically safe digital camera is the perfect visualisation tool for use in hazardous areas. ATEX and IECEx certified the PDSiCAM501 can be used in all sectors of industry including Chemical & Pharmaceutical plants, Oil & Gas production platforms, Refineries and Mining to name but a few.

Manufactured from rugged injection moulded anti static plastic, the PDSiCAM501 is IP65 rated and is suitable for use in the most arduous environments. Its long slim lightweight enclosure, weighing less than 200g, lends itself to single handed operation, making it convenient to carry in your pocket.

Equipped with its super bright 4 LED flash, anti shake technology and 3.1 mega pixel resolution, the iCAM501 provides high quality images in all Hazardous Area environments.

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.

#### Features and Benefits

##### **Rugged Housing**

The iconic injection moulded Anti static plastic housing is IP65 rated and suitable for use in the most arduous environments

##### **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**

The powerful integrated flash allows for picture capture in very poor light conditions

##### **Voice Annotations**

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

##### **Anti Shake**

High quality images are produced every time, minimising the possibility of blurring.

##### **User Upgradeable**

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

##### **3.1 Mega Pixel**

High resolution images provide greater detail of equipment or larger areas such as plant rooms and buildings

##### **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 960Kbytes 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.



## Specification

<b>Certification Number</b>	ITS09ATEX26868X, IECEx ITS 09.0027X
<b>ATEX Certification</b>	II 1 G Ex ia IIB T4 Ga, II 2 G Ex ia IIC T4 Gb
<b>IECEx Certification</b>	II 1 G Ex ia IIB T4 Ga, II 2 G Ex ia IIC T4 Gb
<b>FM Certification</b>	Class 1 Div 1 ABCD T4 - Pending
<b>Compliance</b>	EMC: EN 55022 1998 class B, EN 55024 1999 LV: EN 60950 2002 FCC: FCC: Class A device, compliance through verification route
<b>Dimensions</b>	132mm x 32mm x 22mm (5.20" x 1.26" x 0.87")
<b>IP Rating</b>	IP65
<b>Operating Temperature</b>	-20°C to +60°C
<b>Weight</b>	Approx 200g including batteries
<b>Housing</b>	Injection moulded anti static plastic housing
<b>Relative humidity</b>	95% RH non condensing
<b>Power</b>	2 x Alkaline AA batteries, refer to Ex Certificate for details on range of approved batteries
<b>Memory</b>	On board 1Gbyte NAND Flash (holds approx 5,000 JPEG images without any audio recording and additional 960Kbytes per min for audio)
<b>Image</b>	3.1 Mega-Pixel (2048 x 1536 resolution)
<b>Lens</b>	Fixed focus 1/4" format lens in plastic holder
<b>Focal Distance</b>	30 cm to infinity
<b>View Finder</b>	Two element optical view finder
<b>Power Modes</b>	Operate and auto power-down (after 2 mins)
<b>Battery Life</b>	Up to 800 shots without flash and up to 150 shots with flash taken one after the other. 310 shots as per the CIPA DC-002 standard (mixed mode shots with and without flash) Note it is very difficult to be precise about exact numbers as there are many factors that can influence this such as the ambient temperature, how long the camera is powered up, number of voice recordings made and the number and length of time it is connected to a PC for transferring picture and voice data.
<b>Connectivity</b>	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
<b>OS Support</b>	PTP imaging device in Windows 2000/XP/Vista/7, Mac OsX 10.x and most versions of Linux. USB firmware upgrade utility for Windows XP/2000/Vista/7 only.
<b>Flash</b>	4 LED flash giving 43.7 lux.seconds of energy at 67ms exposure
<b>Audio recording format</b>	wav
<b>Image format</b>	jpeg
<b>Time and Date</b>	Time and date stamping of stored images Time and date set via Picture Transfer Protocol (PTP) automatically

## Ordering Information

### Description

Intrinsically safe zone 0 digital camera including lanyard and 2 x AA batteries

### Part Number

PDSICAM501