Dorland System Control Tech Co., Ltd.
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DORLAND Industrial high protection explosion-proof camera with circuit protection control

EX Rugged Camera 05

DORLAND System Control Technology Co., Ltd. recently launched Industrial high protection explosion-proof camera with circuit protection control EX Rugged Camera 05, which adopts 13 million pixels, has a digital zoom 18X processor, precise three focusing methods, and presents clear near and far scenes.

In addition, it is also suitable for outdoor construction, pipeline inspection, etc. It can be used in conjunction with various applications such as OA office systems, inspection positioning systems, data collection systems, etc. Especially suitable for harsh environments with hazardous explosions, such as petroleum, chemical, pharmaceutical, oil depots, tank farms, and other hazardous areas with flammable and explosive gases, facilitating timely communication between users, production, and scheduling.

Ex-marking: Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db

Certificate NO.: CLEx25.0254

IP Grade: IP68

High protection level for 5 meters and 30 minutes underwater

18X digital zoom

13 million image sensor

2.88-inch main screen+1.44-inch IPS display screen

2500mAh high-capacity explosion-proof battery

Support setting multiple languages

Built in LED fill light

Built in SOS flashing light

Built in automatic shutdown and automatic screensaver mode

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Certificate parameters		
Ex-marking	Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db	
Certificate No.	CLEx25.0254	
IP Grade	IP68 (5m underwater, 30min)	
	High protection and explosion-proof level (waterproof, dustproof, anti drop, anti impact, explosion-proof)	
Hardware specifications		
Image sensor Type		13 million/MX258/4224 * 3200
Main chip (DSP) Model		V39
Lens parameters	**Type**	AF lens
	Aperture	F/2.2
	Effective Focal Length	f=2.0mm
	AF focusing	Supports over 10CM
	output signal	YUV/YcbCr/RGB
	Color difference count	24 bit true color
	angle	73°
	Chip size	1/3.06 inch
	distortion	≦1%
	focus range	1.8M~infinity
Display	**size**	2.88+1.44" IPS
	resolution	480 * 640 large screen/128 * 128 small screen
LED fill light	**support**	<1.5M
Storage medium	**built-in**	SPI
	External storage	memory card
Interface	**USB**	TYPE-C
	WIFI connection	/
	memory card slot	support
Key	**power button**	Continuous shooting/recording/flash/deletion
	Second level camera button	confirm button
	SOS key	Menu key
	Front and rear screen switch button	Replay key
	Zoom in/out key	/
Memory card capacity		Maximum support for 128GB
Microphone		built-in
Speaker		built-in

Software parameters		
File format	Video	.MOV
	Take a photo	.JPG
Photo	Resolution	3/5/8/12/20/24/32/48/64/70M
Video	Resolution	8K/15 6K/25 5K/30 4K/60 4K/60 2.7K/30 FHD1080/60 1080/30 720/60 720/30
Video Recording Mode		Regular recording/time-lapse recording/loop recording
Photo Mode		support
Digital zoom		Digital zoom 18X
Language		English/Japanese/German/Simplified Chinese/Traditional Chinese/French/Italian/Spanish/Korean/Russian
Date and time		Year/Month/Day/Hour/Minute
Focusing method		Fully automatic/semi-automatic/fixed focus
Auto Shutdown		Off/3/5/8 minutes
Auto Screen Saver		Off/60/90/120S
Horn sound		Close/Low/Medium/High
Brightness level		Off/Auto/Highlight/Always On
Optical frequency		50/60HZ
Format		support
Factory settings		support
Version Information		support
Timestamp watermark		Close/Date/Date and Time
Exposure		-3.0EV~+3.0EV
White balance		automatic
image quality		Ultra high picture quality/High picture quality/Normal
Sharpness		Sharp/Normal/Soft
shooting effect		automatic
Saturation		High/Normal/Low
Sensitivity		Automatic/100/200/400
Debounce		none
Scheduled shooting		Off/5/10/20s
Face Detection		none
Smiling face photo		none
Burst shot		Triple burst/Five burst/Single shot
Photography scene		automatic
Software application		
Software		PC Mode/Removable Disk

System requirements	
Computing system requirements	Win XP/Vista/Win7 and above MAC (OS 10.4.11 only supports MSDC) 6K, 8K video: It is recommended to use Intel Core I5 9th generation or AMD 7 series version CPUs; It is recommended to use DDR4 or DDR5 with at least 16GB of memory; Hard drives use high-speed solid-state drives (SSDs)
Computer interface requirements	USB2.0
Battery	
Capacity	Explosion proof lithium battery 2500mAh, 3.7V
Working environment	Low temperature negative 30 degrees/high temperature 65 degrees
Usage duration	Recording for about 150 minutes, taking photos for 2.5-3 hours (the duration may vary depending on the resolution)
Charge	type-c USB DC5V/1A， Charging time 3-3.2H
Accessories	
Standard accessories	
Optional accessories	

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TESTING
CNAS L0136

防 爆 电 气 设 备
Electrical Apparatus for Explosive Atmospheres

防 爆 合 格 证
CERTIFICATE OF CONFORMITY



沈阳产品质量监督检验院
Shenyang Product Quality Supervision And Inspection Institute
(国家低压防爆电器质量检验检测中心(辽宁))
(National quality inspection and testing center for low voltage explosion-proof electrical apparatus (Liaoning))

正页

CLEx

防 爆 电 气 设 备
Electrical Apparatus for Explosive Atmospheres

防 爆 合 格 证

CERTIFICATE OF CONFORMITY

证书编号 №：CLEx25.0254

制 造 商 Manufacturer	北京德兰系统控制技术有限公司 Beijing Dorland System Control Tech Co., Ltd. 地址：北京市海淀区王庄路 1 号院 2 号楼 10 层 11-A1 Address:11-A1, 10th Floor, Building 2,Yard 1,Wangzhuang Road, Haidian District, Beijing
产 品 名 称 Name of Product	工业级高防护防爆相机 Industrial high protection explosion-proof camera with circuit protection control
型 号 规 格 Type Specification	EX Rugged Camera 05　　DC3.7V
防 爆 标 志 Ex-Marking	Ex ib IIC T4 Gb；Ex ib IIIC T130℃ Db
产 品 标 准 Product Standards	Q/DLM 014-2025
总 装 图 号 Drawing №	EX Rugged Camera 05 ZZ01

经对上述产品图样及技术文件的审查和样品检验，确认符合下列标准：
The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB/T3836.1-2021　爆炸性环境 第 1 部分：设备 通用要求
Explosive atmospheres-Part 1:Equipment-General requirements
GB/T3836.4-2021　爆炸性环境 第 4 部分：由本质安全型“i”保护的设备
Explosive atmospheres-Part 4:Equipment protection by intrinsic safety “i”

说 明 事 项 Explanation

1.外壳防护等级 Enclosure Protection Rating：IP68（5m，30min）；
2.产品采用 1 节 Ex battery108 3.7V 2500mAh 锂电池供电，具有保护电路 The product is powered by one Ex battery108 3.7V 2500mAh lithium battery with a protection circuit;
3.严禁在危险场所对电池进行充电、更换和拆卸 Charging, replacing, or removing the battery in hazardous areas is strictly prohibited;
4.射频发射功率不大于 2W；RF transmission power shall not exceed 2W;
5.在粉尘环境使用时，应采取措施避免外壳表面粉尘覆盖 When used in dusty environments, measures should be taken to avoid dust accumulation on the enclosure surface.
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批 准 Approved by

发 证 日 期 Date of issue　2025-11-11

有 效 期 至 Valid date　2030-11-10

沈阳产品质量监督检验院
ShenYang Product Quality Supervision And Inspection Institute
国家低压防爆电器质量检验检测中心（辽宁）
National quality inspection and testing center for low voltage explosion-proof electrical apparatus (Liaoning)

本证书仅对符合送检样品的产品有效，证书持有人有责任保证产品符合标准规定。
This certificate is only valid for the products which identify with the sample(s) tested and verify certificate have the responsibility to ensure the products complying with relevant standard(s).

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