

Dorland Intrinsically Safe Digital Smart-Camera with Circuit Protection Control

EX Camera 01 (18x Digital Zoom)

Dorland System Control Tech Co., Ltd. has recently launched the intrinsically safe digital smart-camera with circuit protection control EX Camera 01, which features 6K ultra-high-definition video recording and 84-megapixel photography, equipped with an 18x digital zoom processor and built-in image stabilization. It captures smooth and clear dynamic footage with precise autofocus, accurately presenting scenes near and far, and supports remote control shooting.

In addition, it is suitable for outdoor construction, pipeline inspection, and other applications, and can be used in conjunction with various systems such as OA office systems, inspection positioning systems, and data collection systems. It is particularly suitable for use in hazardous and explosive environments, such as oil, chemical, pharmaceutical, oil depot, and tank farm areas with flammable and explosive gases, facilitating timely communication between users and production and dispatching teams.



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DORLAND
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Certificate parameters	
Ex-Marking	Ex ib IIC T4 Gb / Ex ib IIIC T130°C Db
Certificate No.	CLEx25.9181
IP Grade	IP54
Specification parameters	
Selling point	<ol style="list-style-type: none"> 1. 6K ultra-high-definition video recording 2. Maximum camera resolution of 84 million pixels 2. With AF (Auto Focus) shooting function 3. Supports webcam (compatible with Windows 7 and above, as well as MAC systems) 4. 3.0-inch high-definition touch display 5. Support simultaneous charging and recording 6. Support external MIC recording 7. Supports WIFI (APP) control functions (shooting/setting/real-time preview/playback) 8. Time-lapse video recording 9. Slow-motion video recording 10. Interval photography 11. Video recording + photography 12. Selfie and continuous shooting functions 13. Support for video pause 14. Equipped with LED fill light function 15. 18X digital zoom 16. Smiling Face Capture 17. Filter 18. Beauty enhancement
Project	Description
Image sensor	SONY CMOS sensor with 48 million pixels, capable of interpolating up to 84 million pixels
Autofocus (AF) range	10CM~infinitely far; when the distance to the object being photographed is 10cm or more, press the camera button (there are two sections, press the first section to focus, press the second section to take a photo or pause the video), and it can automatically focus and form a clear image (this is not optical zoom)
storage medium	Support TF card; the card used must be Class 10 or above and within 256GB (inclusive)
ISO Sensitivity	Auto / ISO100 / ISO200 / ISO400 / ISO800 / ISO1600 / ISO3200 / ISO6400
Lens	AF focusing lens, F/2.4, f=5.04mm
Zoom mode	Auto focus mode: 0.1m to infinity; fixed focal length mode: 2.0m to infinity
Still image	Format: JPG; Resolution: 8M, 12M, 20M, 24M, 30M, 48M, 56M, 64M, 72M, 84M (software interpolation)

Movie clip	Format: MP4, Resolution: 6K_5760*3240 (30FPS), 5K_5120*2880 (30FPS), 4.7K_4608*2592 (30FPS), 4K_3840*2160 (60/30FPS), 2.7K_2688*1520 (30FPS), FHD_1920*1080 (60/30FPS), HD_1280*720 (120/60/30FPS)
Digital zoom	18x digital zoom
Image quality	Standard/High Quality/Ultra High Quality
WIFI (APP) control	support
External MIC recording interface	support
LED fill light	Photographing/video recording and light compensation
White balance	Automatic / Sunny / Cloudy / Fluorescent / Tungsten Lamp
Exposure compensation	-3.0EV~+3.0EV
Metering	Average metering / Center metering / Spot metering / Matrix metering
Camera timer	Settings: 2 seconds/5 seconds/10 seconds/15 seconds/30 seconds
Beauty Filter	support
Filter	Normal/Black and White/Negative Film/Vintage/Brown/Warm Color/Cool Color/Bright/Red/Green/Blue
Computer interface	USB 2.0 Micro Type (High Speed), HDMI Port, TF Card Slot, External Microphone Jack
Automatic shutdown	Off/3 minutes/5 minutes/10 minutes
LCD screen	3.0-inch ultra-high-definition touch IPS screen (16:9)
Language	English (default), Simplified Chinese, Traditional Chinese, Japanese, Korean, Russian, German, French, Italian, Spanish, Portuguese, Thai, (other languages require customized menus)
Battery	1000mAh, 3.7V
Body size (W*H*D)	118.4*82*83 millimeters
Product weight	About 365±5g (with battery) About 337±5g (without battery)



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检测
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))



防爆电气设备
Electrical Apparatus for Explosive Atmospheres

防爆合格证

CERTIFICATE OF CONFORMITY

证书编号 No: **CLEx25.9181**

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	本安型防爆数码相机 Intrinsically Safe Digital Smart-Camera with circuit protection control
型 号 规 格 Type Specification	EX Camera 01 DC3. 7V
防 爆 标 志 Ex-Marking	Ex ib IIC T4 Gb; Ex ib IIIC T130°C Db
产 品 标 准 Product Standards	Q/DLM 012-2025
总 装 图 号 Drawing No	EX Camera 01 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: IP54;
2. 产品采用1节 Ex battery 106 3.7V 1000mAh 锂电池供电, 具有保护电路 The product is powered by one Ex battery 106 3.7V 1000mAh 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.

批 准
Approved by

发 证 日 期
Date of issue 2025-10-27

有 效 期 至
Valid date 2030-10-26



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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