Dorland System Control Tech Co., Ltd.
Room1107, Tower B, Tsinghua Tongfang Technology Square, No.1 Wangzhuang Road, Haidian District, Beijing, P.R.China
Tel: +86-10-62198496
Tel: +86-10-62164681
www.dorland-tech.com
tian@dorland.com.cn

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www.dorland-tech.com

Dorland Intrinsically Safe Digital Smart-Camera with Circuit Protection Control

EX Camera 01 (12X Optical Zoom)

Dorland System Control Tech Co., Ltd. has recently launched the intrinsically safe explosion-proof digital camera EX Camera 01, which adopts 4K ultra high definition recording, has a SONY CMOS 13 megapixel sensor, a maximum camera of 75 megapixels, and a 12x optical zoom. Dynamic shooting is smooth and clear, with precise automatic focusing, presenting far and near scenes clearly, and supporting remote control shooting function

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.









Certificate parameters	
Ex-marking	Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db
Certificate No.	CLEx25.9181
IP Grade	IP54
Specification parameters	
Selling point	1. 4K ultra high definition recording, 2. Maximum photography capacity of 75 million pixels 3. Equipped with AF (autofocus) shooting function 4. Support network cameras (compatible with Windows 7 and above systems, compatible with MAC systems) 5. 3.0-inch high-definition touch screen display 6. Support simultaneous charging and recording 7. Support external MIC recording 8. Support WIFI (APP) control function (shooting/setting/real-time preview/playback) 9. Time-lapse recording 10. Slow motion recording 11. Interval photography 12. Video recording+photography 13. Selfie and continuous shooting function 14. Support video pause 15. Equipped with LED fill light function 16. 12x optical zoom 17. Smiling face capture 18. Filters 19. Beautiful appearance 20. Support macro 21. Dual finger touchscreen zoom
Project	**Description**
Image sensor	SONY CMOS 13 megapixel sensor with maximum interpolation of 75 megapixels
Auto focus (AF) range	10CM to infinity; If the distance to the subject is 10cm or more, press the camera button in advance (there are two segments, press the first segment to focus), Pause taking or recording according to the second paragraph), which can automatically focus and produce clear imaging
Storage Medium	Support TF card; To use card speed Class 10 or above and 256GB or less
ISO	Automatic/ISO100/ISO200/ISO400/ISO800/ISO1600/ISO3200/ISO6400
lens	Optical zoom lens, f=4.9-58.8mm 1:2.6-3.9
Focusing method	Auto focus mode 0.1m~infinity

Static image	Format: JPG Resolution: 3M, 5M, 8M, 12M, 20M, 24M.30M, 48M, 56M, 64M, 75M
Film clip	Format: MP4 Resolution: 4 K_3840X2160p(30FPS), 2.7K_2688X1520p(30FPS), FHD_1920X1080p(60/30FPS), HD_1280x720p(120/60/30FPS)
Encoding method	Support H265 H264 encoding
optical zoom	12X optical zoom / 12X OPTICAL ZOOMLENS (supports dual finger touchscreen zoom)
Image quality	Standard/High Quality/Ultra High Quality
Wi-Fi (APP) control	support
External MIC recording interface	support
LED fill light	Shoot/record supplementary light
white balance	Automatic/sunny/cloudy/fluorescent/tungsten filament lamp
Exposure and tasting	–3.0EV～+3.0EV
Metering Mode	Average metering/Center metering/Spot metering/Matrix metering
Timed photo	Settings: 2 seconds/5 seconds/10 seconds/15 seconds/30 seconds
Beauty	support
filter	Normal, Black and White, Negative, Nostalgia, Red, Green, Blue, Purple, Blue, Yellow, Ins1977, Binary Low saturation, high saturation LOMO、Halo、 Cross printing, dark tones, Japanese colors
computer interface	USB 2.0 Micro type (high-speed), HDMI interface, TF card slot, external microphone interface
Auto Shutdown	Off/3 minutes/5 minutes/10 minutes
LCD screen	3.0-inch ultra high definition IPS touch screen (16:9)
language	English (default), Simplified Chinese, Traditional Chinese, Japanese, Korean, Russian, German, French, Italian, Spanish, Portuguese, Thai, (customized menu for other languages)
Battery	1000mAh / 3.7V
Product dimensions	122.7*107.5*76.7mm
Product weight	Without battery: 383.8g with battery: 410.2g

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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))

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CLEx

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CERTIFICATE OF CONFORMITY

证书编号 №：**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℃ Db
产 品 标 准 Product Standards	Q/DLM 012-2025
总 装 图 号 Drawing №	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　2025-10-27

有 效 期 至 Valid date　2030-10-26

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).

地址：中国·辽宁 沈阳经济技术开发区细河四北街 6 号
ADD：No.6, Xihe 4 North Street, Shenyang Economic & technological Development Area, Liaoning, China
电话 TEL：024-62832918 62832910　邮编 P.C：110027
E-mail：gjdyfb@163.com　http://dyfb.syzjy.net

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