Beijing Dorland
System Control
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DORLAND
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Dorland Industrial Intrinsically Safe Smart Pocket Infra Imager EX Ti50F

Dorland System Control Technology Co., Ltd. has recently launched the industrial intrinsically safe smart pocket infra imager EX Ti50F, which has a 120 * 90 high infrared resolution, a 640 * 480 high-definition 3.5-inch screen IPS display, and is clearly visible under strong light.

In addition, it is also suitable for outdoor construction, pipeline inspection, etc., and 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 areas, and other hazardous areas with flammable and explosive gases, facilitating timely communication between users and production and scheduling.

IP Grade: IP54

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

Certificate No.: SYEx24.0286X

- QR code scanning(optional)
- Design of 120 * 90, 50Hz infrared sensor
- 3.5-inch touch screen display
- 640 * 480 high-definition screen IPS display, clear and visible strong light
- Automatic Fusion of AUF Visible and Infrared Images
- Double injection molding machine casing
- Wi Fi transmission, timely transmission of on-site measurement data and scenarios



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Explosion proof certificate parameters	
Ex Marking	Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db
Certificate No.	SYEx24.0286X
Protection level	IP54
Thermal imaging technical parameters	
Resolving power	120*90
Field of view angle	50°*37°/0.5m
Like element size	17μm
Range	-20 ℃ to 150 ℃/0 ℃ to 550 ℃
Thermal sensitivity	＜ 0.05 ℃ @+30 ℃/50mk
Visible light pixels	2 million pixels
Display screen	3.5” 640 * 480 pixels, touch screen
Image display mode	Infrared image, visible light image, picture in picture function, AUF automatic fusion
Palette	Iron Red, Rainbow, Grey White, White Grey, Blue Red, Hot Cold, Feather Red, Brown
Image frame rate	50 Hz
Focusing method	No focusing
General parameters	
Point analysis	Center point, three manual points
High and low temperature detection and alarm	Automatically capture the highest and lowest temperatures within the area
Regional analysis	Three region analysis
Set command	Unit, Language, Date, Time, Information/Multiple Languages
Language selection	English, Chinese, French, German, Spanish
Storage	Built in 4GB
Video storage format	Standard MPEG-4640X480 @ 30fps
Image storage format	Standard bpm file, can store more than 6000 sheets
USB connection	USB type C, can connect to a computer
WIFI	Connect to the app, transfer pictures and videos
Battery	2180mAh, 3.85VDC rechargeable lithium battery, available for 4 hours
Product Information	
Size	80*52*18mm
Weight	130g
Packaging/Accessories	Packaging box, instruction manual, warranty card, rechargeable lithium battery, USB data cable

CMA 210008349143

防爆电气设备
Explosion-proof electrical apparatus

CNAS 中国认可 检测 TESTING CNAS L1016

防爆合格证

Conformity certificate of Explosion-proof

证书编号 Certificate No. SYEx24.0286X

制造商 Manufacturer	北京德兰系统控制技术有限公司
地址 Address	北京市海淀区王庄路 1 号院 2 号楼 10 层 11-A1
生产企业 Factory	北京德兰系统控制技术有限公司
地址 Address	北京市海淀区王庄路 1 号院 2 号楼 10 层 11-A1
产品名称 Name of product	防爆智能便携式口袋红外热成像仪
型号规格 Type specification	EX Ti50F
防爆标志 Ex-marking	Ex ib ⅡC T4 Gb; Ex ib ⅢC T130℃ Db
产品标准 Product standards	Q/DLM 011-2023
图样编号 Drawing No.	BZ01
备注 Note	1. 产品由单节 664641 聚合物锂离子电池（DC3.85V，2180mAh）供电，电池与保护板及内部电路浇封一体。 2. 外壳防护等级：IP54。 3. 严禁在危险场所拆卸及更换电池。

经对上述产品图样及技术文件的审查和样品检测，确认符合下列标准：
According to the above examination of product designs drawings and technical documents, and sample inspection, it has been confirmed that the following standards are met:

GB/T 3836.1-2021 爆炸性环境 第 1 部分：设备 通用要求
GB/T 3836.4-2021 爆炸性环境 第 4 部分：由本质安全型“i”保护的设备

批准 Approved by

发证日期 Date of issue 2024-04-22

证书有效期至 Valid date 2029-04-21

机械工业低压防爆电器产品质量监督检测中心
Machinery Industry Product Quality Supervisory and Test Center of Low-Voltage Explosion-proof Electrical Product
沈阳电气传动研究所（有限公司）
Shenyang Electrical Driving Research Institute(Co.,Ltd)

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注：本证书仅对与审查认可文件及检测样品一致的产品有效。Note: This certificate is valid only for products which are in agreement with the review and approval documents and test samples.