Beijing Dorland
System Control
Technology Co., Ltd.

Room1107, Tower B, Tsinghua
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Dorland Industrial Intrinsically Safe Smartphone Ex handy 05

DORLAND System Control Technology Co., Ltd. recently industrial intrinsically safe smartphone Ex handy 05, using advanced technology, intrinsically safe circuit design, domineering appearance and solid body. The mobile phone adopts 4.5 " main display screen & 1.05 " second screen, rear camera 50+2 MP, and supports face recognition and standard NFC. Its waterproof and dustproof performance meets the international IP68 standard.

In addition, it supports fingerprint one click unlocking, Bluetooth, WiFi and other functions to meet the reading and writing needs of various scenes. We also configure GPS+ beidou+ GLONASS+Galileo+AGPS positioning and other functions suitable for outdoor construction and pipeline inspection in the mobile phone, which can cooperate with OA office system, inspection and positioning system, data acquisition system and other applications. It is especially suitable for the harsh environment of dangerous explosion, such as petroleum, chemical industry, pharmacy, oil depot, tank farm and other dangerous places with combustible and explosive gases, so as to facilitate the timely communication between users and production and dispatching.

IP Grade: IP68
Ex-mark: Ex ib IIC T4 Gb/ Ex ib IIIC T130°C Db
Certificate No.: CCRI 24.2111X

OS: Android 13.0
Screen: support dual screen, main display screen 4.5 inches, 480*1170 QHD+,
second screen 1.05 inches, broken code screen
Memory: 8GB RAM+256GB ROM UFS2.2 / DDR4X（Extended RAM：3GB/5GB/7GB）
Expanded memory: Up to 2TB
CPU: MT6789（NEXT-G）--G99 8 core 2* 2.2Ghz Cortex A76 & 6* 2.0Ghz Cortex A55
Camera: 50MP（rear）+2MP（micro） 16MP (FRONT)
Battery: 3500mAh 3.8VDC
Frequency:

2G：B2/B3/B5/B8
3G：WCDMA：B1/2/4/5/8
4G：TDD：B34/38/39/40/41

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FDD：B1/2/3/4/5/7/8/12/17/18/19/20/25 /26/28A/28B/66

EDGE/GPRS：support

GPS：Support, Beidou, Galileo, Glonass, GPS, AGPS

Bluetooth：Ver 5.2

Unlock method：Fingerprint location + Facial unlocking + Password unlocking

Standby time/calling time：350h/25h



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Authentication parameters		Description	Remarks
Authentication parameters	Marking	Ex ib IIC T4 Gb / Ex ib IIIC T130℃ Db	
	Certificate No.	CCRI 24.2111X	
	IP code	IP68	
Product overview		**Description**	**Remarks**
Product overview	Unit weight	155g(including battery)	
	Dimension(mm)	133*60*13.5mm	
	OS	Android 13	
Hardware configuration		**Description**	**Remarks**
CPU	Model	MT6789(NEXT-G)--G99	
	Feature	8 core 2* 2.2Ghz Cortex A76&6* 2.0Ghz Cortex A55	
	Framework	ARM Cortex A76/Cortex A55	
	Technology	6nm	
GPU	Model	ARM Mali G57 MC2 2M Pixels per MHz	
network	network	Global frequency band	
	frequency	2G:B2/B3/B5/B8 3G:WCDMA:B1/2/4/5/8 4G:TDD:B34/38/39/40/41 FDD:B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28A/28B/66	
	EDGE/GPRS	SUPPORT	
storage	memory	8GB RAM+256GB ROM UFS2.2 / DDR4X (Extended RAM:3GB/5GB/7GB)	
	SIM card type	SUPPORT Nano SIM+Nano SIM OR Nano SIM + TF card	
	memory card type	T-flash card	
	expanded memory	Up to 2TB	
	Front camera 8 MP		
Front camera	Sensor	OmniVision OV8856	
	Sensing area	1/4 inch 4P	
	Pixel area	8M(3264*2448)	
	Aperture	F/1.8±5%	
	Field of view angle	82.7°(Diag)	
	Focus mode	FF	
	Flash led	N/A	
	Software function	Video,Picture,Mirror,Filter,Film mode,Water Mark,Anti flicker,Potrai,Beauty	Facial recognition
	Rear camera 50MP(rear) + 2MP(Macro)		
Rear main	Sensor	Hynix Hi-5022Q	

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camera	**Sensing area**	1/2.8inch 6P	
	Pixel area	50M (8192*6144)	
	Aperture	F/1.75±5%	
	Field of view angle	76.9°(Diag)	
	Focus mode	PDAF	
	Flash led	Support	
	Software function	HDR,AI, Beauty, GIF, Intelligent Scanning, Water Mark, Anti flicker, Night mode, Panorama, Filter, Portrait, Beauty, Time Lapse, slow motion, Pro Mode, Video, Picture, Film mode	Support for underwater cameras
Macro camera	**Sensor**	Omni Vision OV02A10	
	Sensing area	1/5inch 3P	
	Pixel area	1600*1200	
	Aperture	F/2.4±5%	
	Field of view angle	84.3°(Diag)	
	Focus mode	FF	
	Software function	Macro, Filter	
Display	**Size & technology**	4.5inch	
	Screen color	16.7 million colors	
	Type	TFT	
	Resolution	480*1170 QHD+	
	Pixel density	281ppi	
	Screen aspect ratio	22:9	
	Screen-to-body ratio	0.77	
	Brightness	600cd/m2 (TYP)	LCD brightness
	Screen contrast	1000:1	
Touch panel	**Panel technology**	Multi touch	
	material	0.7mm Panda Cover AF	
	fitting method	Full fit	
Rear secondary screen	**Size & technology**	1.05 inch broken code screen	
	type	Break code screen (displaying temperature, humidity, time, date, battery icon, charging icon, customizable on/off display content, setting display duration)	Temperature units can be switched (Celsius, Fahrenheit)
Transmission function	**navigation**	Support GPS+ Beidou+ GLONASS+ Galileo+ AGPS	
	WIFI	Support 2.4G/5G (802.11ac/a/b/g/n)	
	Bluetooth	Support BT5.2	

	FM	Support / Plug in the headphone adapter cable to support external amplifier	
	OTG	Support	Reverse charging not supported
	NFC	Support	
Sensor	**G-sensor**	Support	
	Proximity sensor	Support	
	Ambient light senor	Support	
	Compass (magnetic)	Support	
	Geomagnetism	Support	
Unlock method	**fingerprint location**	Side fingerprint	
	Facial unlocking	Face Unlock	
	Password unlocking	SUPPORT	
	1. Incoming call answering: When receiving a call, long press the fingerprint sensor with any finger to answer the call. 2. Shooting: When taking a photo, long press the fingerprint sensor with any finger to take a photo 3. Mobile screenshot: Long press the fingerprint sensor to capture the device screen 4. Return to desktop: Long press the fingerprint sensor to return to desktop 5. Return to previous level: Click on the fingerprint sensor to return to the previous level operation		
Physical buttons	**Power button**	SUPPORT	
	Volume button	SUPPORT	
	Custom key function	SUPPORT	
	After selecting the corresponding custom function in the settings, click, double-click, and long press to implement the function		
Virtual buttons	**Home button**	SUPPORT	
	Menu button	SUPPORT	
	Return button	SUPPORT	
Electric acoustic devices	**Speaker**	1216 BOX AAC	
	Motor	0827 flat wire bonding motor	
	Receiver	0809 shrapnel type AAC	
	Mic	Support,single MIC	
	Notify light	Support	
Port	**Headphone port**	Yes Type-C turn 3.5mm earphone	
	Charger interface	TYPE-C(USB 2.0 DEVICE,USB 2.0 OTG)	
Battery	**Capacity**	3500mAh	
	Voltage	3.8V	
	Standby time	350h	
	Calling time	25h	

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Software function		Description	Remarks
System function	System navigation	Gesture navigation, 3-button navigation	
	Smart gesture	Three finger screenshots, screen recording, super screenshots	
	FOTA upgrade OTA	Support	
	Supported languages	English,Chinese,etc,It has updated 48 languages	
Accessories		**Description**	**Remarks**
Package Contents (Standard)	Cellphone	x1	
	Type-C Port Cable	x1	
	Charger	x1	
	Gift protective film	x2	Silicone explosion-proof film (blue)
	Packing box	x1	
	manual	x1	
	warranty card	x1	

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CCRITC

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF

Certificate No.: CCRI 24.2111X

Applicant Company:	**Beijing Dorland System Control Tech Co.,Ltd.**
Address:	**Room1107,Tower B,Tsinghua Tongfang Technology Square,No.1 Wangzhuang Road,Beijing,P.R.China**
Name of Product:	**Intrinsically safe intelligent industrial grade explosion-proof mobile phone**
Type of Product:	**Ex handy 05**
Marking:	**Ex ib ⅡC T4 Gb/Ex ib ⅢC T130℃ Db**
Technical Documents:	**Q/DLM 018-2023**
Drawing No.:	**Ex handy 05 ZZ01**
Note(s):	**See attached page for details**

By verifying the drawings and technical documents and checking samples, the product complies with the following standards currently valid in P.R.China:

GB/T 3836.1-2021，GB/T 3836.4-2021，GB/T 4208-2017

Date of Issue: 3. 14. 2024

Valid till: 3. 13. 2029

Authorize:

Coal Science (Beijing) Test Technology Co., Ltd.
(Beijing Test Center of Mine Working Equipment and Mining Oils for National Safe Production)

Note：This certificate is only valid for the products that are in accord with samples tested and verified.
Address: Building 6, No.5, Yulong Street, Caiyu Town, Beijing Economic and Technological Development Area(Daxing), Beijing Tel/fax：010-89268018
The query url of Explosion-proof Certificate：http://www.ccritc.com.cn/Home

CONFORMITY CERTIFICATE OF EXPLOSION-PROOF (APPENDIX)

CCRITC

Certificate No.: CCRI 24.2111X

1.Rated voltage DC 3.8V, powered by rechargeable lithium-ion battery packs with dual protection.

2.Operating environment temperature: -20℃≤Ta≤+60℃.IP code:IP68@1m，1h.

3.The suffix "X" indicates that the use of various cable interfaces in hazardous areas is prohibited, and charging and replacing batteries in hazardous areas is prohibited; When conducting data transmission or charging, it is necessary to use specialized connection devices with energy limiting measures that have been evaluated. Please refer to the instructions for usage precautions.

4.Correlation test report number: 2024550086.

Coal Science (Beijing) Test Technology Co., Ltd.

(Beijing Test Center of Mine Working Equipment and Mining Oils for National Safe Production)

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