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Dorland Industrial Intrinsically Safe 5G Smartphone Versatile_5G PRO

Beijing DORLAND System Control Technology Co., Ltd. recently industrial intrinsically safe 5G smartphone Versatile_5G PRO, using 5g advanced technology, intrinsically safe circuit design, domineering appearance and solid body. The mobile phone adopts 6.583 "high-definition screen, rear three camera 50 + 24 + 8MP, and supports thermal imaging 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 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, military industry, 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℃ Db

Certificate No.: CCRI 23.7008

OS: Android 13.0

Screen: 6.583 inches IPS, 20:9 1080*2408 FHD+, waterdrop screen
Memory: 12GB RAM（Extended RAM：3GB/5GB/8GB）+256GB ROM   UFS2.2+LPDDR4X

Expanded memory: Up to 2TB

CPU: MTK Dimensity 1080   Octa Core 2.6GHz

      2 x Cortex A78 2.6GHz + 6 x Cortex A55 2.0GH   ARM Cortex A78/Cortex A55   6nm

Camera: Rear Camera 50MP(main camera) + 24MP(night vision camera) + 8MP(fusion camera)

      Front Camera 32 MP

Battery: 10800mAh

Frequency: GSM:（B2/3/5/8）   WCDMA:（B1/2/4/5/6/8/19）   CDMA：BC0/BC1/BC10

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

      TDD: B34/38/39/40/41

      NR: N1/N3/N7/N28/N38/N41/N77/N78/N79

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EDGE/GPRS: support

Unit weight (including battery): 390g

Dimensions (mm): 178.46*83.1*17.89mm

NFC: support

GPS: support, Beidou, Galileo, Glonass, GPS, four out of four

Bluetooth: Ver 5.2

Unlock method: Side fingerprint identification, face recognition

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Authentication parameters		Description
parameters	**Marking**	Ex ib IIC T4 Gb/ Ex ib IIIC T130℃ Db
	Certificate No.	CCRI 23.7008
	IP code	IP68
Product overview		**Description**
Product overview	**Unit weight (including battery)**	390g
	Dimensions (mm)	178.46*83.1*17.89mm
	Operating system	Android 13.0
Hardware configuration		**Description**
CPU	**Model**	MTK Dimensity 1080 Octa Core 2.6GHz
	Feature	Octa Core 2 x Cortex A78 2.6GHz + 6 x Cortex A55 2.0GH
	Framework	ARM Cortex A78/Cortex A55
	Technology	6nm
GPU	**GPU model**	Arm Mali-G68 MC4
Video	**Video encode**	FHD+(21:9)@120fps MPEG-4 : 720 x 480@30 fps H.263 : 640 x 480@30 fps H.264/265 : 4K/2K 30fps
	Video decode	MPEG-4 : 1080p@60 fps/60 Mbps H.263 : 1080p@60 fps/60 Mbps H.264/265/VP-9 : 4K2K@30 fps/100Mbps
network	**Network**	Global frequency band
	Frequency	GSM（B2/3/5/8） WCDMA（B1/2/4/5/6/8/19） CDMA：BC0/BC1/BC10 FDD：B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28A/28B/66） TDD：B34/38/39/40/41 NR: N1/N3/N7/N28/N38/N41/N77/N78/N79
	EDGE/GPRS	Support
Storage	**memory**	12GB RAM（Extended RAM：3GB/5GB/8GB）+256GB ROM UFS2.2+LPDDR4X
	SIM card type	SUPPORT Nano Sim card+Nano Sim card+T card（three choose two）
	Memory card type	T-flash card
	Expanded memory	Up to 2TB
Front Camera 32 MP		
Front Camera	**Sensor**	SONY IMX616-AAJH5-CM
	Sensing area	1/2.7inch 5P

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	Pixel area	32M (6560*4928)
	Aperture	F/2.0±5%
	Optical zoom	N/A
	Field of view angle	83.84°
	Focus mode	FF
	Flash led	N/A
	Software function	Video、Picture、UHD、Gif、Filter、Beauty、Brand watermark、Mirror
Rear Camera 50MP(main camera) + 24MP(night vision camera) + 8MP(fusion camera)		
Rear Main Camera	Sensor	SONY　IMX766
	Sensing area	1/1.5 inch 7P
	Pixel area	8192 ×6144　50MP
	Aperture	F/1.8±5%
	Optical zoom	N/A
	Field of view angle	85.5°(Diag)
	Focus mode	PDAF
	Flash led	Support
	Software function	HDR、AI、(Water Mark)、（Night Vision）、(Video)、(Picture)、(UHD)、(Night Mode)、(Pro Mode)、（Potrait）、(Gif)、(Panorama)、(Intelligent Scanning)
Fusion camera	Sensor	Samsung S5K4H8YX
	Sensing area	1/4inch 5P
	Pixel area	3264*2448　8M
	Aperture	F/1.8±5%
	Optical zoom	NA
	Field of view angle	81.5°(Diag)
	Focus mode	NA
	Flash led	NA
	Software function	(Global temperature measurement), temperature measurement parameters, image mode, regional temperature measurement, temperature ruler, photography, video recording, delayed photography, thermometer mode
Night vision camera	Sensor	OmniVision　OV24A1B-rev-1B
	Sensing area	1/2.83inch　6P
	Pixel area	24MP　5664*4248
	Aperture	F/1.8±5%
	Optical zoom	NA
	Field of view angle	78°(Diag)
	Focus mode	AF
	Flash led	Support
	Software function	Video、Picture

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Thermal imaging camera	**Sensor**	Tiny1-C
	Spectral range	8～14 µm
	pixel size	256×192
	Pixel spacing	12µm
	NETD	＜50mK @25℃，F#1.0，25Hz
	Thermal time constant	＜10ms
	Detector frame rate	≤25Hz
	Image output	10bit/14bit
	Measuring range	Industrial temperature measurement: -10 ℃~+150 ℃ (high gain) 100 ℃~+550 ℃ (low gain) Biological temperature measurement: 30 ℃~45 ℃
	Thermometric accuracy	Industrial temperature measurement: ± 2 ℃ or ± 2% of reading Biological temperature measurement: ± 0.5 ℃
	Temperature measuring distance	Industrial temperature measurement: ≤ 5m (3.2mm lens) Biological temperature measurement: ≤ 3m (3.2mm lens)
Mobile phone display	**Size & technology**	6.583inch IPS Waterdrop screen 90Hz refresh rate
	Screen color	16.7 million colors
	Type	in-cell
	Resolution	1080*2408 FHD+
	Pixel density	401PPI
	Screen aspect ratio	20:9
	Screen-to-body ratio	85%
	Brightness	400cd/m2/(TYP) Peak Brightness 480cd/m2
	Screen contrast	1500:1(TYP)
Touch panel	**Panel technology**	Capacitive touch
	IC	FT8722
	Sensor technology	Excel Architecture
	Material	GG3
	Fitting method	Full fit
Transmission function	**navigation**	Support (Beidou, Galileo, Glonass, GPS) Four out of four
	WIFI	Support Wi Fi 6 (ax/ac/a/b/g/n)
	Bluetooth	Support BT5.2
	FM	Support
	OTG	Support (supports reverse charging)
	NFC	Support
Sensor	**Hall switch**	N/A
	Infrared remote control	N/A
	HotKnot	N/A
	G-sensor	Support
	Proximity sensor	Support
	Ambient light senor	Support

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	Compass (magnetic)	Support
	Geomagnetism	Support
	Gyroscope	Support
Unlock method	**fingerprint location**	Side fingerprint
	face recognition	YES
	sensor	SW9022
	Coating	Fuel injection
	With or without metal ring	Yes
	responding speed	<0.2s
	Recognition angle	360 ° recognizable
	Induction method	Capacitive sensor
	Spatial resolution	508DPI
Hardware features	**Wireless charge**	N/A
	Hard coulometer	Support
	Sound Amplifier	Smart PA AW88261
Physical buttons	**Power button**	Support
	Volume button	Support
	Custom key function	Support
Virtual buttons	**Home button**	Support
	Menu button	Support
	Return button	Support
Electric acoustic devices	**Speaker**	1216 speaker BOX, dual speaker, stereo surround sound
	Motor	1027 flat motor
	Receiver	0809 cartridge earpiece
	Mic	Silicon MIC, dual mic noise reduction
	Notify light	Support
	Buttun LED	N/A
Port	**Headphone port**	Yes Type-c
	Charger interface	Type-c
Battery	**Capacity**	10800mAh
	Fully charge and discharge frequency	500 times
	Material	Lithium cobalt oxide
	Voltage	4.4V
	Discharge coefficient	MAX 1.2C
	Battery density ratio	680Wh/L
Housing	**Housing structure**	Two shot injection
	Housing material	PC+10% fiber+TUP90 degree+aluminum alloy
	Housing color	Wood grain+vermilion color, vermilion color
Software function		**Description**

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System function	**System navigation**	Gesture navigation, "three button" navigation
	Smart gesture	Three finger screenshot, three finger access to camera, two finger adjustment of volume, double tap to wake up, unlock, alarm clock flipping mute, sliding to unlock bright screen, palm shaking at the distance sensor position of the phone to unlock
	Air gesture	N/A
	Communication somatosensory	N/A
	System somatosensory	N/A
	Supported languages	Supports multiple languages
Entertainment features	**Video playback**	. avi.mp4,. 3gp,. 3g2,. 3gpp,. 3gpp2,. m4v.flv,. f4v.webm.wmv,. asf.mov,. qt.ts,. m2ts,. mts.mkv
	Video produce	Highest support @ 30fps video shooting
	Audioplayer	Support MP3, M4A, AAC, MKA, AMR, WMA/RA
	Graphic format	Support JPEG, BMP, GIF, PNG, etc
	Game	Support
	Applications	Support
Other software	**Market**	Support
	Share	Support
	Software Toolbox	(Compass)、(Noise test)、(Pic Hanging)、(Gradienter)、(HeightMeasure)、(Magnifier)、(Protractor)、(Plumb Bob)、(Alarm bell)、(Flashlight)、（Pedometer）
	Privacy protection, visitor mode	N/A
Accessories		**Description**
Package Contents （Standard)	**Cellphone**	x1
	Type-C Port Cable	x1
	Charger	x1
	Tempered film（Posted on the screen）	x1
	Card Slot Opener	x1
	Packing box	x1
	manual	x1