

## **DORLAND Industrial Intrinsically Safe Smartphone Unicorn10 PRO**

DORLAND System Control Technology Co., Ltd. recently introduced the intrinsically safe smartphone Unicorn10 PRO. It adopts advanced technology, intrinsically safe circuit design, domineering appearance and solid body. The mobile phone adopts 6.56 inch full screen (20:9) design, equipped with 8MP front and 50MP + 0.3MP pixel high-definition camera at the rear. Its waterproof and dustproof performance meets the international IP68 standard.

In addition, the phone supports NFC, fingerprint unlocking and other functions. This is equipped with GPS positioning, compass and other functions suitable for outdoor construction and pipeline inspection. It can cooperate with OA office system, patrol positioning system, data acquisition system and other applications. Especially suitable for hazardous explosion environment, such as petroleum, chemical, pharmaceutical, oil depot, tank farm and other dangerous places with combustible and explosive gas, which is convenient for users to communicate with production and scheduling in time.

**Protection Grade:** IP68

**Marking:** Ex ib IIC T4 Gb / Ex ibD 21 T130°C

**Certificate No.:** CCRI 20.2303

**OS:** Android 14.0

**Screen:** 6.56inches (20:9) 720\*1612 HD+

**Secondary screen:** 1.54" IPS TFT

**Memory:** 8GB+256GB (RAM expansion 4GB/8GB/12GB with three levels of over clocking)

**Storage Card:** support T-flash card, Up to 2TB

**CPU:** 8cores T606 2 x A75@1.6GHz + 6xA55 1.6GHz

**Cameras:** Rear camera 50MP + 0.3MP

Front camera 8MP

**Battery:** 8000mAh

**Battery voltage:** 3.8V

**Frequency:** GSM:B2/3/5/8

WCDMA: B1/2/4/5/8

TDD:B34/38/39/40/41

FDD:1/2/3/4/5/7/8/18/19/20/25/26/28AB/66

EDGE/GPRS: Yes

**GPS:** Beidou, Galileo, Glonass, GPS

**Bluetooth:** BT5.0

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**DORLAND**

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Certificate		Description
Certificate	Marking	Ex ib IIC T4 Gb / Ex ibD 21 T130°C
	Certificate No.	CCRI 20.2303
	Protection Grade	IP68
Items		Description
Product overview	Dimension (mm)	174*81.2*15.8mm
	Weight (g)	326g
Hardware configuration		Description
CPU	OS	Android 14.0
	Feature	8cores T606 2 x A75@1.6GHz + 6xA55 1.6GHz
	Framework	Mali G57 1core
	Technology	12nm
GPU	GPU model	Mali-G57 GPU
Video	Video encode	FHD 60fps H.263/264/265/VP8/VP9
	Video decode	FHD 60fps H.263/264/265/VP8/VP9
network	Network	GSM/WCDMA/FDD/TDD
	Frequency	GSM:B2/3/5/8 WCDMA: B1/2/4/5/8 TDD:B34/38/39/40/41 FDD:1/2/3/4/5/7/8/18/19/20/25/26/28AB/66
	EDGE/GPRS	Support
Storage	memory	8GB+256GB (RAM expansion 4GB/8GB/12GB with three levels of over clocking) LPDDR4X + UFS
	SIM card type	SUPPORT Nano SIM+Nano SIM+TF card
	Memory card type	T-flash card
	Expanded memory	Up to 2TB
Front Camera 8MP		
Front Camera	Sensor	Hynix Hi-842
	Sensing area	1/4 inch 4P
	Pixel area	3264*2448 8MP
	Aperture	F/2.2±5%
	Field of view angle	78°
	Focus mode	FF
Rear Camera 50MP+0.3MP(Without function)		
Rear Camera	Sensor	Omnivision OV50C40
	Sensing area	1/2.5 inch 5P
	Pixel area	8192*6144

	<b>Aperture</b>	F/1.8±5%
	<b>Optical zoom</b>	N/A
	<b>Field of view angle</b>	77°
	<b>Focus mode</b>	AF
	<b>Flash led</b>	Support
<b>Display</b>	<b>Size &amp; technology</b>	6.56 inch IPS Blind hole screen 90Hz
	<b>Screen color</b>	16.7M
	<b>Type</b>	in-cell
	<b>resolving power</b>	720*1612 HD+
	<b>Pixel density</b>	269
	<b>Screen aspect ratio</b>	20:9
	<b>Screen-to-body ratio</b>	84%
	<b>Brightness</b>	380 cd/m2(Typ)
	<b>Screen contrast</b>	1500:1
<b>Secondary screen</b>	<b>Size &amp; technology</b>	1.54 IPS TFT
	<b>Screen color</b>	262K
	<b>Type</b>	LCD
	<b>Resolution</b>	240*240
	<b>Pixel density</b>	220 PPI
	<b>Aspect Ratio</b>	1:01
	<b>Brightness</b>	400 cd/m2(Typ) LCM
	<b>Screen contrast</b>	1000:1
	<b>Display</b>	Display information such as temperature, humidity, time, date, week, air quality, etc
<b>Transmission function</b>	<b>navigation</b>	Support (Beidou, Galileo, Glonass, GPS)
	<b>WIFI</b>	Support 2.4G/5G (802.11ac/a/b/g/n)
	<b>Bluetooth</b>	Support BT5.0
	<b>FM</b>	Support
	<b>OTG</b>	Support
	<b>NFC</b>	Support
<b>Sensor</b>	<b>G-sensor</b>	Support
	<b>Proximity sensor</b>	Support
	<b>Ambient light sensor</b>	Support
	<b>Compass (magnetic)</b>	Support
	<b>Geomagnetism</b>	Support, support reverse charging
<b>Unlock method fingerprint</b>	<b>fingerprint location</b>	Side fingerprint
<b>Physical buttons</b>	<b>Power button</b>	Support
	<b>Volume button</b>	Support
	<b>Custom key function</b>	Support, After selecting the corresponding custom function in the settings, click and long press to

		achieve the function
<b>Virtual buttons</b>	<b>Home button home</b>	Support
	<b>Menu button</b>	Support
	<b>Return button</b>	Support
<b>Port</b>	<b>Headphone port</b>	TYPE-C to 3.5mm headphone jack interface
	<b>Charger interface</b>	Type-c
<b>Battery</b>	<b>Capacity</b>	8000mAh
	<b>Safe charging and discharging frequency</b>	500 times
	<b>Material</b>	Lithium cobalt oxide
	<b>Voltage</b>	3.87V
	<b>discharge coefficient</b>	MAX 0.5C
	<b>Battery density ratio</b>	685Wh/L
<b>Software function</b>		<b>Description</b>
<b>System function</b>	<b>System navigation</b>	Gesture navigation, "three-button" navigation
	<b>Smart gesture</b>	Three finger screenshot, intelligent motion sensing
	<b>FOTA upgrade OTA</b>	Support
	<b>Supported languages</b>	English, Spanish, Simplified Chinese, Traditional Chinese. (It has updated 48 languages)
<b>Entertainment features</b>	<b>Video playback</b>	Support MP4、AVI、MKV、MOV、FLV、M4V and other video formats, up to 1080P / 30fps
	<b>Video produce</b>	Highest Support 1080P@30fps video shooting
	<b>Audioplayer</b>	Support MP3, M4A, AAC, MKA, AMRAnd other video formats
	<b>Graphic format</b>	Support JPEG, BMP, GIF,PNG etc.
	<b>Game</b>	Support

 170021131268	
<b>CONFORMITY CERTIFICATE OF EXPLOSION-PROOF</b>	
Certificate No.: CCRI 20.2303	
<b>Company:</b>	Beijing Dorland System Control Tech Co.,Ltd
<b>Address:</b>	Room 807,Yingu Plaza, North 4th Ring West Road,Haidian District, Beijing 100080,P.R.China
<b>Name of Product:</b>	Industrial Intrinsically Safe Smartphone
<b>Type of Product:</b>	Unicorn10
<b>Marking:</b>	Ex ib II C T4 Gb / Ex ibD 21 T130°C
<b>Technical Documents:</b>	Q/DLM 006-2020
<b>Drawing No.:</b>	Unicorn10-00
<b>Note(s):</b>	1.Power supply by dual protection rechargeable lithiumion battery with rated voltage 3.8VDC, nominal napacity:800mAh; 2.Ambient temperature range:-20°C≤Ta≤+60°C; 3. IP code:IP68 @1.5m,30min.
By verifying the drawings and technical documents and checking samples,the product complies with the following standards currently valid in P.R.China: GB 3836.1-2010, GB 3836.4-2010, GB/T 4208-2017 GB 12476.1-2013, GB 12476.4-2010	
<b>Date of Issue:</b>	8.3.2020
<b>Valid till:</b>	8.2.2025
<b>Authorize:</b>	 
<b>Test Center Of China Coal Research Institute</b> (煤炭科学技术研究院有限公司检测中心)	
(The test center of the national safety production of mining equipment and mining oil in Beijing)	
Note: This certificate is only valid for the products that are in accord with samples tested and verified. Center Add: No.5 Qingniangou Road,Hepingli,Beijing,100013 Tel/fax: 010-89268018 The query url of Explosion-proof Certificate: <a href="http://www.ccritc.com.cn/Home">http://www.ccritc.com.cn/Home</a>	