Dorland
System Control
Technology Co., Ltd.

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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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Certificate		Description
Certificate	**Marking**	Ex ib IIC T4 Gb / Ex ibD 21 T130℃
	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

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	Pixel area	8192*6144
	Aperture	F/1.8±5%
	Optical zoom	N/A
	Field of view angle	77°
	Focus mode	AF
	Flash led	Support
Display	**Size & technology**	6.56 inch IPS Blind hole screen 90Hz
	Screen color	16.7M
	Type	in-cell
	resolving power	720*1612 HD+
	Pixel density	269
	Screen aspect ratio	20:9
	Screen-to-body ratio	84%
	Brightness	380 cd/m2(Typ)
	Screen contrast	1500:1
Secondary screen	**Size & technology**	1.54 IPS TFT
	Screen color	262K
	Type	LCD
	Resolution	240*240
	Pixel density	220 PPI
	Aspect Ratio	1:01
	Brightness	400 cd/m2(Typ) LCM
	Screen contrast	1000:1
	Display	Display information such as temperature, humidity, time, date, week, air quality, etc
Transmission function	**navigation**	Support （Beidou,Galileo,Glonass,GPS）
	WIFI	Support 2.4G/5G（802.11ac/a/b/g/n）
	Bluetooth	Support BT5.0
	FM	Support
	OTG	Support
	NFC	Support
Sensor	**G-sensor**	Support
	Proximity sensor	Support
	Ambient light senor	Support
	Compass (magnetic)	Support
	Geomagnetism	Support, support reverse charging
Unlock method fingerprint	**fingerprint location**	Side fingerprint
Physical buttons	**Power button**	Support
	Volume button	Support
	Custom key function	Support, After selecting the corresponding custom

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

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170021131268

CONFORMITY CERTIFICATE
OF EXPLOSION-PROOF

CCRITC

中国认可
检测
TESTING
CNAS L0738

Certificate No.: **CCRI 20.2303**

Company:	**Beijing Dorland System Control Tech Co.,Ltd**
Address:	Room 807,Yingu Plaza, North 4th Ring West Road,Haidian District, Beijing 100080,P.R.China
Name of Product:	**Industrial Intrinsically Safe Smartphone**
Type of Product:	**Unicorn10**
Marking:	**Ex ib ⅡC T4 Gb / Ex ibD 21 T130℃**
Technical Documents:	**Q/DLM 006-2020**
Drawing No.:	**Unicorn10-00**
Note(s):	1.Power supply by dual protection rechargeable lithiumion battery with rated voltage 3.8VDC, nominal napacity:8000mAh; 2.Ambient temperature range:-20℃≤Ta≤+60℃; 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

Date of Issue:	**8.3.2020**
Valid till:	**8.2.2025**
Authorize:	

Test Center Of China Coal Research Institute (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：http://www.ccritc.com.cn/Home