Dorland   Room1107, Tower B, Tsinghua   Tel: +86-10-62198496   www.dorland-tech.com
System Control   Tongfang Technology Square,   Tel: +86-10-62164681   tian@dorland.com.cn
Tech Co., Ltd.   No.1 Wangzhuang Road,
Haidian District, Beijing, P.R.China

DORLAND
www.dorland-tech.com

DORLAND Industrial Intrinsically Safe Smartphone Unicorn9

DORLAND System Control Tech Co., Ltd. recently introduced the industrial intrinsically safe smartphone Unicorn9. It adopts advanced technology, intrinsically safe circuit design, domineering appearance and solid body. The mobile phone adopts 6.56 inch HD+ screen (20:09) design, equipped with 8MP front and 50MP+ 8MP+ thermal imaging camera at the rear. Its waterproof and dustproof performance meets the international IP68 standard.

In addition, the phone 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.

Ex-marking: Ex ib IIC T4 Gb / Ex ibD 21 T130°C
Certificate No.: CCRI 21.2044
IP Grade: IP68

OS: Android 14.0
CPU: T606, Octa core, 2 * A75@1.6GHz + 6 * A55 @1.6GHz
Cameras:

     Rear camera 50MP+8MP+Thermal imaging module

     Front camera 8MP

Screen: 6.56 inch, (20:9), 720*1612 HD+
Memory: 6GB+256GB (RAM expansion 6GB/8GB/10GB with three levels of overclocking)
Storage Card: up to 2TB
Battery: 5000/10000mAh, 3.8V
Frequency: GSM: B2/3/5/8

         WCDMA: B1/2/4/5/8

         TDD: B34/38/39/40/41

         FDD: B1/2/3/4/5/7/8/18/19/20/25/26/28AB/66

         EDGE/GPRS: Support

Navigation: Support, Beidou, Galileo, Glonass, GPS
WIFI: Support, 2.4G/5G（802.11ac/a/b/g/n）
Bluetooth: Support, BT5.0

Dorland
System Control
Tech Co., Ltd.

Room1107, Tower B, Tsinghua
Tongfang Technology Square,
No.1 Wangzhuang Road,
Haidian District, Beijing, P.R.China

Tel: +86-10-62198496
Tel: +86-10-62164681

www.dorland-tech.com
tian@dorland.com.cn

DORLAND
www.dorland-tech.com

DORLAND
Your safety is our mission

DORLAND   Unicorn9   Ex
Industrial Intrinsically Safe Smartphone
Ex-mark: Ex ib IIC T4 Gb / Ex ibD 21 T130℃
IP Grade: IP68   Certification No.: CCRI 21.2044
VBATT: 3.8VDC   Battery Capacity: 5000mAh
Don't disassemble or replace battery in dangerous areas

Dorland
System Control
Tech Co., Ltd.

Room1107, Tower B, Tsinghua
Tongfang Technology Square,
No.1 Wangzhuang Road,
Haidian District, Beijing, P.R.China

Tel: +86-10-62198496
Tel: +86-10-62164681

www.dorland-tech.com
tian@dorland.com.cn

DORLAND
www.dorland-tech.com

Authentication parameters		Description
Authentication parameters	**Ex-marking**	Ex ib IIC T4 Gb / Ex ibD 21 T130℃
	Certificate No.	CCRI 21.2044
	IP Grade	IP68
Product overview		**Description**
Product overview	**Unit weight**	343g(including battery)
	Dimensions (mm)	174*81.2*15.8mm
	OS	Android 14.0
Hardware configuration		**Description**
CPU	**Model**	T606
	Feature	Octa core 2 * A75@1.6GHz + 6 * A55 @1.6GHz
	Framework	Mali G57 1core
	Technology	12nm
GPU	**GPU model**	Mali-G57 GPU
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: B1/2/3/4/5/7/8/18/19/20/25/26/28AB/66
	EDGE/GPRS	Support
Storage	**memory**	6GB+256GB (RAM expansion 6GB/8GB/10GB with three levels of overclocking)
	SIM card type	SUPPORT Nano SIM+Nano SIM+TF card（three out of three）
	Memory card type	T-flash card
	Expanded memory	Up to 2TB
Front Camera 8MP		
Front Camera	**Sensor**	Omnivision OV8856
	Pixel area	3264*2448 8MP
Rear Camera 50MP+8MP		
Rear Camera	**Sensor**	Omnivision OV50C40
	Pixel area	50MP（8192*6144）
	Flash led	Support
Fusion camera	**Sensor**	Sumsung S5K4H5-YC
	Pixel area	3264*2448 8MP
Thermal	**Sensor**	ECO160
	Spectral range	8～14 μm
	pixel size	160*120

Dorland
System Control
Tech Co., Ltd.

Room1107, Tower B, Tsinghua
Tongfang Technology Square,
No.1 Wangzhuang Road,
Haidian District, Beijing, P.R.China

Tel: +86-10-62198496
Tel: +86-10-62164681

www.dorland-tech.com
tian@dorland.com.cn

DORLAND
www.dorland-tech.com

imaging camera	**Pixel spacing**	12μm
	NETD	＜50mK @25℃，F#1.0，25Hz
	Thermal time constant	＜10ms
	Detector frame rate	≤25Hz
	Image output	8-bit standard parallel output, line by line readout, black hot, Raw 14bit
	Thermometric range	Temperature measurement range: -15 ℃~150 ℃（high image quality） 50 ℃~550 ℃（wide range）
	Thermometric accuracy	2% or ± 2 ℃
Mobile phone display	**Size & technology**	6.56 inch IPS, 20:9, 90Hz
	resolving power	720*1612 HD+
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
	Gyroscope	Support
Unlock method fingerprint	**Front lens**	Face recognition
	Fingerprint location	Side fingerprint
Port	**Headphone port**	Type-C to 3.5mm headphone jack
	Charger interface	Type-C
Battery	**Capacity**	5000/10000mAh
	Voltage	3.8V
Software function		**Description**
System function	**System navigation**	Gesture navigation, "three button" navigation
	Smart gesture	Three finger screenshot, three finger camera entry
	FOTA upgrade OTA	Support
	Supported languages	English, Simplified Chinese, Traditional Chinese.（It has updated 48 languages）

Dorland
System Control
Tech Co., Ltd.

Room1107, Tower B, Tsinghua
Tongfang Technology Square,
No.1 Wangzhuang Road,
Haidian District, Beijing, P.R.China

Tel: +86-10-62198496
Tel: +86-10-62164681

www.dorland-tech.com
tian@dorland.com.cn

DORLAND
www.dorland-tech.com

CNAS
中国认可
检测
TESTING
CNAS L0738

170021131268

CONFORMITY CERTIFICATE

OF EXPLOSION-PROOF

CCRITC

Certificate No.:   **CCRI 21.2044**

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:	**Unicorn9**
Marking:	**Ex ib ⅡC T4 Gb / Ex ibD 21 T130℃**
Technical Documents:	**Q/DLM 001-2021**
Drawing No.:	**Unicorn9-00**
Note(s):	1.Power supply by dual protection rechargeable lithiumion battery with rated voltage 3.8VDC, nominal capacity:5000mAh; 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：	1.21.2021
Valid till：	1.20.2026
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