

U10

Intelligent Visual Layout
RTK Measurement System U10



U10

UNIQUENAV®

INTELLIGENT VISUAL LAYOUT RTK MEASUREMENT SYSTEM U10

U10 is a portable multifunctional GNSS Receiver, It support Tilt Survey with IMU, AR Function, 4G global network, Bluetooth, WIFI and 5W internal radio.



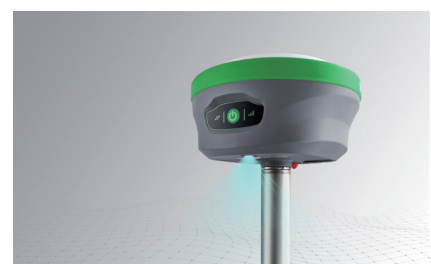
FEATURES ▼

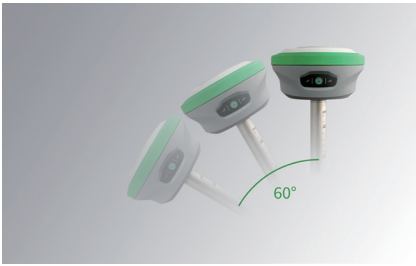
Full satellites system full frequency
Search+Calculating can get 50+
satellites



Built-in 5W internal radio.
The work range by internal radio is 15km.

AR Guide, Vision staking out.





60 degree IMU Tilt survey

IP68 Dustproof and waterproof
Magnesium alloy material



Work with CORS as network RTK

PRODUCT PARAMETERS ▼

	配置	内容	备注
	Hardware platform	Qualcomm Cortex-A7	
	Software platform	Linux	
	Channel	1408	
GNSS	GPS	L1 C/A, L1C, L2P(Y), L2C, L5	IRNSS Support after firmware upgraded
	GLONASS	L1, L2, L3	
	BDS	B1I, B2I, B3I, B1C, B2a, B2b	
	GALILEO	E1, E5a, E5b, E6	
	QZSS	L1, L2, L5	
	SBAS	L1	
	NavIC(IRNSS)*	L5	
	Data format	NMEA-0183	
	I/O protocol	RTCM3.X	
	Data update rate	20Hz max	
	Recapture time	<1s	
	Cold start	<40s	

Accuracy	Single (RMS)	Horizontal: 1.5m Vertical : 2.5m
	DGPS (RMS)	Horizontal : 0.4m Vertical : 0.8m
	RTK (RMS)	Horizontal : ±(8mm+1ppm)
		Vertical : ±(15mm+1ppm)
	Time (RMS)	20ns
	Static (RMS)	Horizontal : ±(2.5mm+1ppm)
		Vertical : ±(5mm+1ppm)
	Speed (RMS)	0.03m/s
System platform	Tilt accuracy	<2cm
	Bluetooth	BR+EDR+BLE
	WIFI	802.11 b/g/n
	Network module	LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28
		LTE TDD: B38/39/40/41
		WCDMA: B1/2/4/5/6/8/19
		GSM: B2/3/5/8
	Internal Radio (Rx/Tx)	Frequency: 410~470MHz
		Power: 5W(37±1dBm) 1W(30±1dBm)
		Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT
		Baud rate: 9600, 19200
	Memory	32GB
Indicator	Camera	Hd ultra wide angle camera, support AR.
	Power indicator	
	Satellite indicator	
	Data link indicator	
Battery	Battery	7.4V, 6500mAh
		At least 20 hours for Data collector network mode
		26 hours for static
	Charge	USB PD 15V/2A
environment		5V/3A
	Working temperature	-20°C~+60°C
	Storage temperature	-20°C~+70°C
	Anti-knock	1.5m
Physical	Dustproof and waterproof	IP68
	Magnesium alloy + ABS	
	Size	Φ140mm*85mm
Accessory	Weight	≤890g
	U10 Receiver	1
	Power adaptor	1
	USB C To C cable	1
	Radio antenan	1

DPO039

HANDHELD TERMINAL DPO039



COLLECT SOFTWARE APP PHOTOS

QM-Survey



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