

☐ Designed in the EU.

NAVTRON



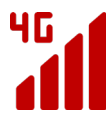
Nav X



**Laser
Measurement**
60m range
2cm@10m accuracy



**Stellar
Cameras**
improved imaging
night vision



**Network
Moduel**
nano-SIM card
NTRIP supportable



**creative
LED Group**
more status
clear indication

Nav X

SPECIFICATIONS



SATELLITE PERFORMANCE

Channels	1,408
GPS	L1C/A, L2C, L2P(Y), L5
GLONASS	L1, L1C/A, L2, L3
BEIDOU	B1i, B2i, B3i, B1C, B2a, B2b
GALILEO	E1, E5a, E5b, E6, AltBOC
QZSS	L1C/A, L2C, L5, L6
SBAS	L1, L5 (WAAS, EGNOS, GAGAN, MSAS)
IRNSS	L1, L5
L-Band	B2b-PPP, E6-HAS
Positioning Rate	1-20Hz

ACCURACY

Code Differential	H: 0.25m (RMS) V: 0.50m (RMS)
Static	H: 2.5mm±0.1 ppm (RMS) V: 3.5mm±0.4 ppm (RMS)
Real-time Kinematic	H: 8mm±1 ppm (RMS) V: 15mm±1 ppm (RMS)
Network PPK	H: 8mm±0.5 ppm (RMS) V: 15mm±0.5 ppm (RMS)
Initialization Time	10s Cold Start 45s, Warm Start 25s
Reliability	99.9%
Tilt Angle	120°
Accuracy	<2cm within 60° Velocity Accuracy 0.025m
Reacquisition	<1.3 s

LASER MEASUREMENT

Range	70m
Distance Accuracy	2mm
Frequency	Normal mode: 10Hz Rapid mode: 20Hz
LaserFix	≤2cm within 5m ≤3cm within 10m
Laser Wavelength	520nm

CAMERA

Optical Format	1/2.8"
Pixel Size	2.9*2.9µm
Active Pixel Array	1,920*1,080
Sensor	CMOS 1080p HDR imaging sensor

DATA STORAGE

Type & Storage	SSD 32GB External USB Pen drive Type-C
Data Transfer	USB Transfer Supports FTP/HTTP download
Differential Format	RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2, NMEA 0183, PJK plane coord., binary code, Trimble GSOF
GPS Output Format	VRS, FKP, MAC
Network Model	Nano-SIMcard LTE FDD, LTE TDD, UMTS, GSM

COMMUNICATION

I/O	Type-C Fast Charge 5/7-pin LEMO
UHF Radio	2W Tx/Rx, 400-470MHz
Protocol	TrimTalk, Satel, etc.
WiFi	2.4G/5G, 802.11a/b/g Hotspot/Data Link
Bluetooth	Bluetooth 2.1 + EDR and 4.0
NFC	Available

INTERFACES

Button	1
LED Indicator	Data Link, Satellite, Bluetooth, Power

POWER SUPPLY

Battery	Internal Li-on Battery 3.6V, 13,600mAh
Operating Time	Static mode 20h Rover mode 16h

PHYSICAL

Dimension	86mm(H), 130mm (W)
Weight	890g
Operating Temp.	-40°C to 65°C
Storage Temp.	-40°C to 80°C
Proof	IP68 water and dust proof Humidity: 100% non-condensing 2m drop on hard surface 40G 10ms sawtooth wave

NAVTRON

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