CORS-GNSS REFERENCE STATION RECEIVER
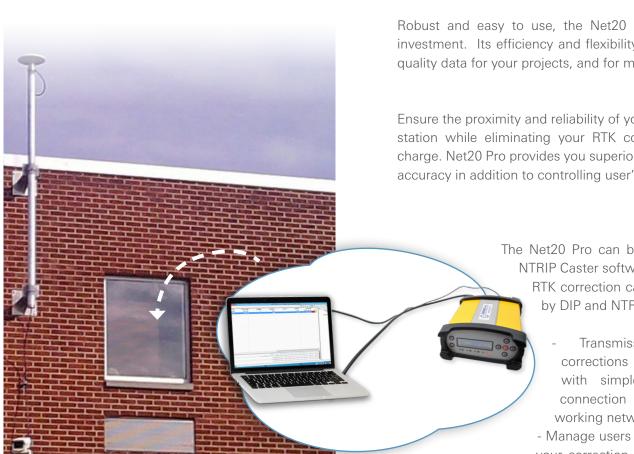## NET 20 Pro

› **Up to 555 GNSS channels**
› **Maximum efficiency and reliability, to let a project become an ageless landmark**
› **Proven tracking technology for CORS GNSS reference station**
› **Create your own correction service for: Agriculture, Construction site, Machine Control, Utilities and many other applications**

Robust and easy to use, the Net20 Pro is long term investment. Its efficiency and flexibility assure you high quality data for your projects, and for many years.

Ensure the proximity and reliability of your own reference station while eliminating your RTK corrections service charge. Net20 Pro provides you superior connectivity and accuracy in addition to controlling user's access.

The Net20 Pro can be controlled with NTRIP Caster software (included).
RTK correction can be transmitted by DIP and NTRIP:

- Transmission of RTK corrections permanently with simple local internet connection from your (LAN) working network.
- Manage users and availability of your correction data with control over access of your IP address.

RECEIVER

Satellite Tracked	GPS: L1 C/A, L1C, L2C, L2P, L5 GLONASS: L1 C/A, L2C, L2P, L3, L5 BeiDou: B1/B2/B3 Galileo: E1/E5/AltBOC/E5a/E5b/E6 IRNSS: L5 QZSS: L1CA/L1C/L2C/L5/L6 SBAS: L1, L5
L-Band	Yes
Channels	555
Internal Memory	32 GB
	Multi storage sessions

POSITIONING

High Precision Static Surveying	
Horizontal	3 mm+ 0.1 ppm RMS
Vertical	3,5 mm + 0,4 ppm RMS
Code Differential Positioning	
Horizontal	0.25 m RMS
Vertical	0.45 m RMS
SBAS Positioning	
Horizontal	0.50 m RMS
Vertical	0.85 m RMS
Real Time Kinematic (< 30 Km) - Network Surveying	
Horizontal	8 mm + 1 ppm RMS
Vertical	15 mm + 1 ppm RMS

INTERNAL RADIO

Type	TX - RX
Frequency Range	410 - 470 MHz
Channel Spacing	12.5 KHz / 25 KHz
Maximum Range	Up to 10 Km with optimal conditions

USER INTERFACE

Buttons	7 keys, function keys + power key
DEL	4 LEDs, Bluetooth, differential transmission, static record, and power state.
OLED display	64 x 256 pixels, mono color display

INCLUDED ACCESSORIES

4G LTE Antenna with SMA Male Connector

Multi GNSS Geodetic Antenna (L1, L2, L5, L-band)

DB-9 Serial Cable For Data Transfer and Program

Lemo 5 Pins DB-9 Serial Cable

Network Cable 3 meters

Lemo 7 Pins USB Cable

Antenna Cable 35 meters

110/220 Volt Power Cable

COMMUNICATION

I/0 Connectors	Power port, Lemo connector 3 Serial port, Lemo connector USB port, Lemo connector Ethernet port, RJ45 10/100 Mbit 1 PPS, SMA female, event, SMA female OSC, MMCX female GNSS antenna, TNC female LTE, SMA female, UHF, TNC female SIM, Mini card push-pop type
Bluetooth	2.1 GHz+ EDR
Wi-Fi	802.11b/g/n hotspot/client mode
WebUI	Via smart phone, tablet or other internet enabled electronic device
Reference outputs	RTCM 2.3, 3.0, 3.2, CMR, CMR+, RTCA, RINEX, BINEX
Navigation outputs	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL

NETWORKING SERVICES

NTRIP	Caster/Server/Client
Remote Management	By Software
FTP server	For data download
Email alerts	For low storage and other warning messages

POWER SUPPLY

Battery	Rechargeable lithium battery 7.2 V - 1 3600 mAh
Voltage	9 to 28 V OC extremal power input
Working Time	Up to 20 hours
Charge Time	Typically 15 hours

PHYSICAL SPECIFICATIONS

Dimensions	222 mm x 164 mm x 79 mm
Weight	2.00 Kg
Operating Temperature	-40 °C to 65 °C (-40 °F to 149 °F)
Storage Temperature	-40 °C to 80 °C (-40 °F to 176 °F)
Waterproof /Dustproof	IP67
Shock Resistance	Designed to endure to a 1.2 m pole drop on concrete floor with no damage
Vibration	Vibration resistant

SYSTEM CONFIGURATION

Operating System	Linux

Authorized Distributor