

Singular XYZ®

Your Partner in Precision

X1 LITE GNSS ROVER

A COST-EFFECTIVE CHOICE FOR PROFESSIONAL SURVEYING

The X1 Lite GNSS Rover delivers powerful performance in a compact and lightweight design. With advanced GNSS technology, long battery life and flexible work modes, it is the ideal solution for surveyors who demand accuracy, reliability and efficiency in any environment.

Accuracy in your palm. Professional Performance.



KEY FEATURES

STRONG GNSS
Tracks GPS, BDS, GLONASS, Galileo, QZSS, IRNSS, SBAS with anti-interference technology.

FLEXIBLE WORK MODES
Supports Base, Rover, Static, PPK and NMEA output for maximum versatility.

LONG BATTERY LIFE
Internal 6700mAh battery for up to 20 hours of continuous operation.

LIGHTWEIGHT DESIGN
Compact and portable with a weight of only 867 g (incl. battery).

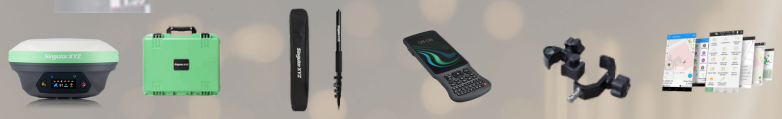
EASY CONNECTIVITY
Built-in UHF, Bluetooth, NFC and WiFi for seamless data transfer.

RUGGED & RELIABLE
IP68 rating for water and dust protection. Designed for harsh field conditions.

TECHNICAL SPECIFICATIONS

Category	Item	Specification
SATELLITES TRACKING	1. Channels	1408
	2. GPS	L1C/A, L2P, L2C, L5
	3. BDS	B1I, B2I, B3I, B1C, B2a, B2b
	4. SBAS	WAAS, EGNOS, MSAS, GAGAN, SDCM
	5. Galileo	E1, E5a, E5b, E6
	6. QZSS	L1C/A, L1C, L2C, L5
	7. NavIC	L5
	8. GLONASS	G1, G2, G3
	9. L-band	Support
ACCURACY	• Horizontal	• 1.5 m (Standalone) • 2.5 cm (RTK)
	• Vertical	• 3.0 m (Standalone) • 5.0 cm (RTK)
	• Static Post Processing	• < 10 s • 20 ns
	• Time Accuracy	• 2.5 mm + 0.5 ppm (Horizontal) • 5 mm + 0.5 ppm (Vertical)
	• PPK	• 8 mm + 1 ppm (Horizontal) • 15 mm + 1 ppm (Vertical)
	• Time Accuracy	• < 10 ns
	• Initialisation Time	• < 10 s
	• RTK Convergence	• < 10 s
	• RTK Reliability	• > 99.9%
	• RTK Update Rate	• 1 Hz
	• Tilt Surveying	• 60° (±2 cm, within 60° tilt)
DATA FORMAT	1. Size	• Φ133.5 × 67 mm
	2. Weight	• 867 g (incl. battery)
	3. Storage	• 8GB
	4. Housing Material	• Magnesium-aluminium alloy
	5. Buttons	• 2 (power and function)
	6. Indicators	• 4 LEDs (working, battery/power, Bluetooth, data link)
ENVIRONMENTAL	1. Operating Temperature	• -20°C to +50°C
	2. Storage Temperature	• -40°C to +80°C
	3. Humidity	• 100% Non-condensing
	4. Waterproof & Dustproof	• IP68
	5. Drop Resistance	• Survives 1.5 m pole drop
COMMUNICATION	1. UHF Radio	• Tx: 1W (410–470 MHz)
	2. Bluetooth	• BT 4.2 Dual Mode
	3. NFC	• NFC Connection Supported
	4. WiFi	• 802.11 a/b/g/n/ac
	5. Data Format	• RTCM 2.x/3.x, CMR, NMEA-0183
	6. Data Output	• NMEA-0183, PJK
	7. Data Update Rate	• 1–20 Hz (adjustable)
	8. Network	• UHF, 4G (optional)

COMPLETE SCANNING PACKAGE



X1 LITE GNSS Rover | Carry Case | Range Pole 2.2M Corbon Fibre | Field Data Collector SC300 | Data Collector Bracket | Singular Pad Software

COMPLETE PACKAGE PRICE
R42,495 EXCL. VAT

PROFESSIONAL PERFORMANCE. EXCEPTIONAL VALUE.

ADVANCED SURVEYING SIMPLIFIED

LOCAL TRAINING
- HANDS-ON TRAINING FOR YOUR TEAM

CALIBRATION SUPPORT
- KEEP YOUR EQUIPMENT PERFORMING AT ITS BEST

LOCAL SUPPORT
- FAST, RELIABLE SUPPORT WHEN YOU NEED IT

WARRANTY
- 12 MONTHS WARRANTY





TOPOGRAPHIC SURVEYING
Topographic Surveys

CONSTRUCTION
Construction Layout & Stakeout

ENGINEERING SURVEYING
Construction Layout & Stakeout

BOUNDARY SURVEYING
Boundary & Cadastral Surveys

GIS DATA COLLECTION
GIS Data Collection & Asset Mapping

CLE CAPE LABORATORY EQUIPMENT
+27 21 839 5163 | sales@capelab.co.za | www.capelab.co.za | Follow Us On LinkedIn
41 Killarney Avenue, Killarney Gardens, Cape Town, 7441, South Africa