Cape Laboratory Equipment (Pty) Ltd

Your Partner in Precision

Singular XYZ®



HORUS

PRECISION MEETS VISION. PERFORMANCE BEYOND LIMITS.

The HORUS GNSS Rover integrates advanced GNSS, a 50 m laser, dual cameras and IMU tilt compensation to deliver unmatched accuracy and visual intelligence. Built for professionals who demand more from every measurement.

VISUAL SURVEYING
Measure what you see.
Redefining measurement with vision.

50M LASER MEASUREMENT
Measure farther.
Work smarter.

120° IMU TILT COMPENSATION
Measure accurately,
even at extreme angles.

AR STAKEOUT
Real-world navigation.
Smarter stakeout.

POINT CLOUD GENERATION
Capture every detail.
See the bigger picture.

3D MODELLING CAPABILITIES
From points to models.
From data to decisions.

KEY FEATURES

Visual Surveying
Dual cameras for real-time visual measurement and stakeout.

50m Laser Measurement
Camera-assisted laser accurately measures up to 50 metres.

120° IMU Tilt Compensation
Works at extreme angles with up to 120° tilt.

AR Stakeout
Augmented reality guidance for intuitive and efficient stakeout.

Point Cloud Generation
Capture high-density point clouds for detailed analysis.

3D Modelling Capabilities
Transform data into intelligent 3D models in the field.

TECHNICAL SPECIFICATIONS

Category	Item	Specification
SATELLITES TRACKING	1. Channels	1408
	2. GPS	L1C/A, L2C, L2P, L5
	3. BDS	B1I, B2I, B3I, B1C, B2a, B2b
	4. GLONASS	G1, G2, G3
	5. Galileo	E1, E5a, E5b, E6
	6. QZSS	L1C/A, L1C, L2C, L5
	7. NavIC	L5
	8. SBAS	WAAS, EGNOS, MSAS, GAGAN, SDCM
	9. L-band	Support
LASER MEASUREMENT	1. Range	0.05 – 50 m
	2. Accuracy	± (2 cm + 1 ppm)
	3. Laser Class	Class 1 (eye safe)
IMU	1. Tilt Angle	0° – 120°
	2. Tilt Accuracy	2.5 cm (within 30° tilt)
	3. Compensation	IMU-based tilt compensation
ACCURACY	1. Horizontal	8 mm + 1 ppm RMS
	2. Vertical	15 mm + 1 ppm RMS
	3. RTK Horizontal	8 mm + 1 ppm RMS
	4. RTK Vertical	15 mm + 1 ppm RMS
	5. Initialization Time	< 10 s
	6. Reliability	> 99.9%
PHYSICAL	1. Size	Φ133.5 × 67 mm
	2. Weight	867 g (incl. battery)
	3. Housing Material	Magnesium-aluminium alloy
	4. Storage	8 GB
	5. Indicators	4 LEDs (satellite, data link, laser, power)
	6. Buttons	2 (power, function)
ENVIRONMENTAL	1. Operating Temperature	-20°C to +50°C
	2. Storage Temperature	-40°C to +80°C
	3. Water & Dust Proof	IP68
	4. Drop	Survives 1.5 m pole drop
COMMUNICATION	1. UHF Radio	Tx: 1 W (410–470 MHz)
	2. Bluetooth	BT 4.2 Dual mode
	3. WiFi	802.11 a/b/g/n/ac
	4. Network	4G LTE (optional)
	5. Data Interface	Type-C

SEE. MEASURE. ARCHIVE. ALL WITH HORUS

COMPLETE SCANNING PACKAGE

EVERYTHING YOU NEED TO CAPTURE REALITY - RIGHT OUT OF THE BOX.


HORUS GNSS Rover


Carry Case


Field Data Collector


Data Collector Bracket


Range Pole 2.2M Corbon Fibre


Singular Pad Software

COMPLETE PACKAGE PRICE
R74,995 EXCL. VAT

PROFESSIONAL PERFORMANCE. EXCEPTIONAL VALUE.

POWERFUL SOFTWARE. SEAMLESS WORKFLOW.

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



CONSTRUCTION SURVEYING
Site layout, as-built surveys, stakeout

TOPOGRAPHIC SURVEYING
Rapid terrain and feature mapping

BIM & DIGITAL TWIN CREATION
Point cloud capture and 3D modelling

UTILITY MAPPING
Locate and map infrastructure assets

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