MS AX – Measuring Stations

MATRIX DETECTION

Topcon's MS AX range of robotic total stations are the highest precision sensors available. Whether your measurement task involves monitoring prisms on a damn wall, alignment observations through a tunnel or high accuracy infrastructure layout, the MS AX is the perfect tool for the job. Designed specifically for projects where accuracy can not be compromised, the MS AX is available with either a 1" or super precision 0.5" angular measurements and 0.5 mm distance measurement.
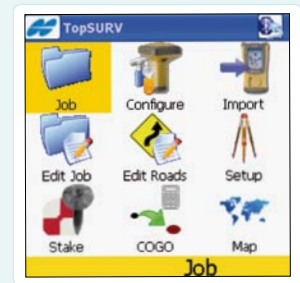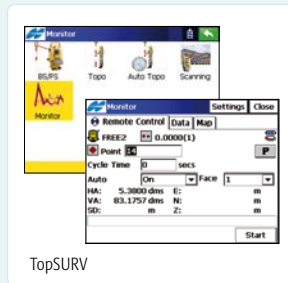
Featuring the revolutionary Matrix Detection Monitoring technology, the MS AX can make the estabishment of large number targets on a monitoring or tunnelling project a rapid and simple task, completely eliminating user errors.

KEY FEATURES - MS AX

- 0.5" / 1" Angular Accuracy (MS05AX / MS1AX)
- Distance Accuracy of 0.5mm
- 1" / 1mm over 100m Auto-Collimation Accuracy
- Matrix Detection for auto-target detection
- Pinpoint 400m Reflectorless Range (MS1AX)

SURVEY

TopSURV

Monitoring Solutions – In addition to supplying you with the most accurate and durable Monitoring Sensor on the market -the Topcon MS Series, Topcon offer all the additional hardware and software required for any monitoring project. With off the shelf solutions to control and power one instrument. For multiple instrument networked solutions, we have a package which is suitable for you.

Automatic and comprehensive reporting of displacement is available throughout the range, with SMS and mail notification when tolerances are exceeded.

MS AX Package

- **Complete System**
  – MS AX 0.5" or 1" Instrument
  – Dual Charging Cradle
  – Choice of optional field controllers
  – Li-Ion Batteries
  – Compact Carry Case
  – Instrument TopSURV Onboard for MS
  – Compatible with third party monitoring solutions
  – Manuals & Utility software

MS MEASURING STATION

IS-3 – Imaging Station

CAPTURE REALITY

Take the power, accuracy and speed of the innovative Topcon robotic instruments, add our legendary imaging capabilities and faster scanning speeds... and you have the IS-3.

With dual wide angle and coaxial imaging sensors, superior X-TRAC8 tracking technology, 2 Km reflectorless range, integrated WiFi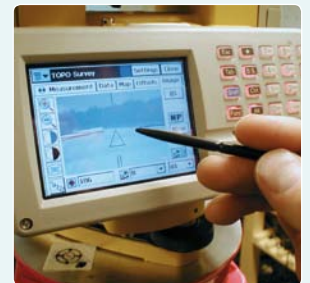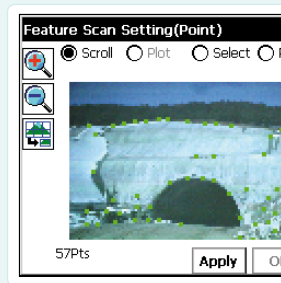 and interference free 2.4 GHz Spread Spectrum data communications, the IS-3 is the most advanced and powerful imaging robotic station available. Incorparating our fast iSCAN measurement routine to enable thorough automated data collection defining your subject using real-time image capture: options include Feature Detection or Grid Scan to automatically measure significant points or a 'regular' grid.

KEY FEATURES - IS-3

- Twin Cameras – wide angle and coaxial for true through the lens view
- iSCAN intelligent feature scanning
- 20 points per second scan rate, with 2000 m range
- iDRIVE lets you visually operate from the controller and easily switch from imaging to prism tracking
- Photo Fieldbook – creates a 360° panorama in seconds
- Long range wireless with up to 10fps

SURVEY

WT-100

Feature Scan Setting(Point)
Scroll Plot Select
57Pts   Apply   O

WT-100 – Using the new WT-100 wireless data link device, users can dramtically extend their wireless working range... now up to 300 m!

This means that users are able to increase the range with which they can use the incredible 10 frames per second live video feed from the IS to lock on to the prism with pin point precision using iDRIVE.

IS Package

- **Complete Imaging Robotic System**
  – IS-3 1" or 3" Instrument
  – Charging Cradles
  – Choice of field controllers with TopSURV
  – WT-100 WiFi device
  – Lightweight 360° prism
  – TopSURV on Board for IS
  – ImageMaster (Remote Control and Office Processing software)
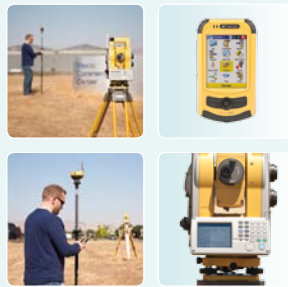 – Manuals & Utility software

IS IMAGING STATION

QS – Quick Station

LONG RANGE TECHNOLOGY

With a modern, cable-free design, the QS offers the most advanced robotic technology available. Topcon's one-touch Quick Lock feature that set the standard in robotic target acquisition has taken another step forward, with our XTRAC 8 offering stronger tracking and quicker re-acquisition in challenging environments. Our QS Series robotic systems offer reflec-torless measurement superior to any other instrument available – capable of precision measurements at a mind-boggling 2,000 m!

The waterproof, dustproof instrument design is ready to take the punishment that can be expected on the harshest job site conditions.
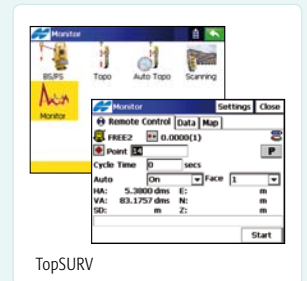
KEY FEATURES - QS

- Super Fast RC-4 one-touch Quick Lock technology
- XTRAC 8 – Robust Prism tracking even at close range
- Advanced prism movement prediction
- Industry leading (eye safe) 2 km Reflectorless Measurement
- Interference Free 2.4 GHz Spread Spectrum Radio
- Complete Cable-free Solution

SURVEY

INTEGRATED SURVEYING

By integrating GNSS RTN (Network RTK) and Robotic Total Station (RTS) technologies, your job site productivity can be increased dramatically.

By using the QS robotic with our handheld GRS-1 RTK controller & PG-A1 antenna and TopSURV, this method of working is easy!

QS

RC-4

TopSURV

- **Cable-free package solution**
- – All new QS Robotic Instrument
- – RC-4R Remote Control with 2.4 GHz SS Radio
- – Choice of Field Controller
- – A7R 360 deg prism
- – TopSURV controller software

Field Controllers

FC-2500

FC-250

FC-25A

QS Package

GRS-1

Manual Non-Prism Total Stations

LONG RANGE TECHNOLOGY

GPT-7500 – Topcon's reflectorless GPT-7500 Total Station provides a lighter, faster survey solution for handling your biggest jobs. Enjoy the benefits of the industries longest reflectorless range ... up to 2km! As well as the large onboard memory, with the dual USB sockets and CF slot, there's plenty of space to store all your positioning information.
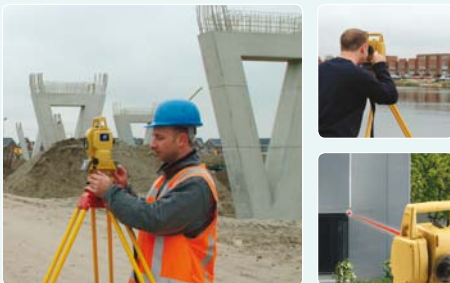
GPT-3100N – Available in 2, 3, 5, 7" versions with display resolution to 1", the GPT-3100N satisfies the need for a compact, traversable total station with surveying practice accuracies guaranteed. The GPT-3100N Series have Ingress Protection rating of IP66, which make them perfect for the high demands of a construction site. It also offers a high accuracy reflectorless EDM mode for pinpoint measurements up to a 400m range.

KEY FEATURES - GPT-7500

- Rugged build design to withstand harsh site conditions
- Longest non-prism range – 2000 metres
- Fast On board Windows field collection software
- Large, backlit keypad with bright, color LCD touch-screen display
- CF card, USB Type A and USB mini slots delivers versatile memory capabilities

SURVEY

KEY FEATURES - GPT-3100N

- Fully waterproof with IP rating IP66
- 400 m Reflectorless Range
- Integrated (optional) Bluetooth communications
- Fast measuring time
- Multi-Pulse EDM Technology
- Intuitive onboard Survey / Layout software

GPT-3100 NW / FC-236 Controller

● **Standard packages**
- GPT-7500 / GTS-750 Series
- Battery BT-65Q / Battery Charger BC-30
- Plumb bomb set
- Instruction Manual
- Plastic Rain Cover
- Tool Kit
- Carrying Case
- Stylus Pen
- USB Cable F-25
- Display Protection Sheet

GTS-750 Package

● **Standard packages**
- GPT-3100N series
- Battery BT-52QA
- Battery charger BC-27BR (120 V) or BC-27CR (230 V)
- Charging Cradles
- Tool kit with case
- Carrying case
- Plumb bob set

GPT-3000N Package