### The Leader in Positioning Technology...
Topcon offers positioning products that deliver unparalleled site-wide performance and integration. Topcon’s history of technological advancements and our reputation for superior reliability means there’s no other company positioned to provide you with a better “Total Positioning Solution.”

From survey to inspection, Topcon dealers throughout the world provide innovative technology that gives surveyors, civil engineers, contractors, equipment owners, and operators the competitive edge by addressing such critical issues as increasing profits, quality craftsmanship, improving productivity, lowering operating costs, and enhancing job site safety.

Full positioning integration field-to-finish: That’s the goal of Topcon. When it’s time for you to step up to the next level, it’s time to turn to Topcon.

### The Leader in Customer Satisfaction...
To ensure that your Topcon product maintains peak performance, your local Topcon dealer offers factory trained and certified service technicians. If service isn’t available in your area, our factory offers a repair and return policy second to none.

### Offices Worldwide
- **TOPCON CORPORATION**
  - 7-5, Mejiro-cho, Nakano-ku, Tokyo 164-8545, Japan
  - Phone: 3-3558-2520 • Fax: 3-3604-014 • www.topcon.co.jp
- **Topcon Europe Positioning B.V.**
  - Ewervelde 12, 2908 LJ Capelle a/d IJssel, THE NETHERLANDS
  - Phone: 010-4585-077 • Fax: 010-4585-045 • www.topconeurope.com
- **Topcon Corporation Beijing Office**
  - Block A No.9, Kangding Street, Beijing Economic Technological Development Area, Beijing 100176, CHINA
  - Tel: +86-10-6780-2799 • Fax: +86-10-6780-2790

### SPECIFICATIONS

#### ANGLE MEASUREMENT
- **Method** Absolute Reading
- **Minimum Reading** 1”/5” (0.1/0.5mgon)
- **Accuracy** 1”, 3”, 5” (0.3mgon)
- **Tilt Correction** Dual Axis
- **Compensating Range** ±6’ (1.8m)

#### DISTANCE MEASUREMENT
- **Prism Mode**
  - 1 prism: 9,840’ (3,000m)
  - 3 prism: 13,120’ (4,000m)
  - 9 prism: 16,400’ (5,000m)
- **Accuracy**
  - Fine: ±(2mm+2ppmxD*) m.s.e.
- **Non-Prism Mode**
  - 4.9’ - 820’ (1.5m - 250m)
- **Non-Prism Long Mode**
  - 16.4’ - 6,500’ (5.0m - 2,000m)
- **Accuracy**
  - Fine: ±(2mm+2ppmxD*) m.s.e.
- **NP Accuracy**
  - Fine: ±(2mm+2ppmxD*) m.s.e.

#### IMAGING
- **Cameras** (2) 1.3mp
- **Image speed** 1 - 10fps
- **Scanning** Max 20 pts/sec

#### USER INTERFACE
- **OS** Microsoft Windows® CE.NET 4.2
- **Processor** Intel® PXA255 400Mhz
- **Screen** Full Color Touch-screen

### Recommended Systems

#### Robotic Package
- **Topcon IS**
- **On-board TopSURV**
- **Application**: Topographic Land Surveys, Boundary Surveys, Construction Layout, Scanning from on-board TopSURV, Scanning from WiFi connected ImageMaster running on a PC

#### Scanning Package
- **Topcon IS**
- **On-board TopSURV**
- **Applications**: Long-range Scanning: quarry, mining, construction site, landfills
  - Mid-range Scanning: buildings, dams, bridges, embankments, monitoring
  - Short-range Scanning: interiors of buildings, lot as-builts

### Topcon’s NEW laser scanning alternative, from the World Leader in digital imaging...
- **A Robotic Instrument and Much More**
  - **Two Digital Cameras** – Wide Angle and 30X Tele-Zoom
  - **Long Range Scanning**
  - **Intelligent Scan Feature Recognition**
  - **Fully Robotic Internal 2.4 GHz Radio**
  - **6,500’ (2,000m) Reflectless Measurement**
  - **Remote Image Display by TopSURV and ImageMaster™**

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**IS Imaging Station**
Long-range Scanning, Imaging and Robotic Total Station

Your local Authorized Topcon dealer is:
The power, accuracy, and speed of a Total Station with the auto-scanning capabilities of a Laser Scanner; Topcon’s IS takes material management, as-built design, and structural/environmental monitoring out of the clouds and puts it at your fingertips...

A new way to scan
Topcon’s IS combines the best of two worlds, advanced imaging and high-accuracy surveying, incorporating real-time field imagery with spatial data. The IS’s powerful functionality is controlled using Topcon’s exclusive ImageMaster™ software that produces “photography with dimension”, a revolutionary and cost effective alternative to laser scanning.

Long Range Scanning
Nobody can provide the combination of laser scanning and robotic surveying like Topcon with the IS. The world’s longest reflectorsless (6,500’ (2,000m)) robotic instrument now can scan long ranges as well. Mining and monitoring applications can be accomplished with the IS.

Remote Networking
The IS has WLAN capability and can be controlled remotely via network or internet connection. Imagine sitting in the comfort of your office or vehicle and being able to scan, measure, control, and see what the IS is seeing.

Touch Drive - Turn and select a point on screen
Simply touch the screen image to drive the cross hairs where you want. For the highest degree of data accuracy, clarity and pinpoint accuracy, use the telescope, pinpoint features to be measured or monitored precisely up to 6,500’ (2,000m) away.

Continuous Monitoring
With a WiFi connection, image-based monitoring can be done continuously and remotely. Whether done with mounted prisms or reflectorsless, this monitoring function compliments the everyday use function of our robotic surveying. The IS features Bluetooth® and WiFi wireless technology making continuous monitoring easy.

Does more than a robotic instrument! Does more than a laser scanner!
The Topcon IS combines the power of both a laser scanner and a robotic instrument into one superior long-range, imaging robotic system.

Field Controllers with built-in WiFi
FC-200
- Integrated Bluetooth® wireless technology and WiFi
- 520 MHz Intel XScale® processor
- Optional snap-in radio module RS-1 for the FC-200
- Super bright Windows color touch-screen

FC-2500
- Built-in Bluetooth® wireless technology and WiFi
- 624 MHz XScale® processor
- 256MB RAM, 2GB ROM
- 5.17 megapixel camera and bar code reader
- 55 key alphanumeric keyboard, plus joystick
- Windows® CE.NET 5.0 Operating System

ImageMaster™ Software
ImageMaster provides image and scan control of the IS through WiFi connection providing remote operation from the comfort of your vehicle or even an offsite location. Images are gathered using two digital cameras and stream videos up to 10 fps.

How it Works
Topcon’s IS features dual digital imaging CMOS cameras providing a color, real-time image on the touch sensitive LCD display. To define a scan area, simply tap the image display, or for uniform measurement of an area, select the grid feature. The IS "locks" three points to their exact position on the image, even when the instrument is rotated. Once all points to be measured are chosen, the IS performs a reflectorsless measurement of each point.

Image Display Buttons
- Set points to scan on the LCD with a tap...
- TIN
- Texture Mapping
- Volumes/Contours
The power, accuracy, and speed of a Total Station with the auto-scanning capabilities of a Laser Scanner; Topcon’s IS takes material management, as-built design, and structural/environmental monitoring out of the clouds and puts it at your fingertips…

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Touch Drive - Turn and select a point on screen
Simply touch the screen image to drive the cross hairs where you want. For the highest degree of data accuracy, clarity of image is key. That’s why Topcon incorporates telescopics zoom with a QVGA LCD. Using the telescope, pinpoint features to be measured or monitored precisely up to 6,500’ (2,000m) away.

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- 256MB RAM, 2GB ROM
- 5.17 megapixel camera and bar code reader
- 55 key alphanumeric keyboard, plus joystick
- Windows® CE.NET 5.0 Operating System

Photo Fieldbook
- A 360˚ panoramic image from any occupation point
- Document the jobsite with photographs referenced on the horizontal and vertical angle grid

ImageMaster™ Software
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Does more than a robotic instrument! Does more than a laser scanner!
The Topcon IS combines the power of both a laser scanner and a robotic instrument into one superior long-range, imaging robotic system.

The IS and accessories fit into one case.
Includes:
- Imaging Station
- Carrying Case
- (3) Batteries BT-65Q
- (1) Double Charger
- Y-branch
- USB Cable
- On-board TopSURV
- ImageMaster IS
- CDS Support Material
- (2) Carrying Straps
- Sun and Rain Shields

The new Topcon Imaging Station, the IS!
The world’s first long-range robotic scanning instrument.

Six On-board Scanning Methods
- Grid Scan by Specified Plane
- Grid Scan by Square
- Grid Scan by Polygon
- Grid Scan by 1-Line
- Grid Scan by All-Around
- Feature Scan (All the above)

6,500’ (2,000m) Reflectorless EDM Technology
- Most powerful reflectorless EDM available
- Long range power means unsurpassed short range performance
- Pinpoint accuracy with narrow, focused beam

Integrated Radio System
- 2.4 GHz Interference free Spread Spectrum Radio
- Integrated into side panel of the instrument
- Optional, snap-in radio module RS-1 for the FC-200

Image Display Buttons
- Assist Focus with Focus Knob
- Servo Motors with Auto Track
- Protected CF Card Slot
- Live Color Image Display
- Windows CE Touch Screen
- On-board Battery

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www.topconpositioning.com

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- Long Range Scanning
- Intelligent Scan Feature Recognition
- Fully Robotic Internal 2.4 GHz Radio
- 6,500’ (2,000m) Reflectors Less Measurement
- Remote Image Display by TopSURV and ImageMaster™

Recommended Systems

Robotic Package
- Topcon IS
- Robotic Kit FC-200 or FC-2500
- On-board TopSURV
- ImageMaster IS Version
- Applications: Topographic Land Surveys, Boundary Surveys, Construction Layout, Scanning from on-board TopSURV. Scanning from WiFi connected ImageMaster running on a PC.

Scanning Package
- Topcon IS
- ImageMaster Standard Version
- On-board TopSURV

Your local Authorized Topcon dealer is:

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DANGER
LASER RADIATION
DO NOT STARE INTO BEAM
WAVE LENGTH 620nm-690nm
1mW MAXIMUM OUTPUT
CLASS II LASER PRODUCT

Topcon Positioning Systems, Inc.
7400 National Drive
Livermore, CA 94550
www.topconpositioning.com

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