

IS-3

 **TOPCON**

Provided by Xpert Survey Equipment  
Click [Topcon IS-03](#) for Product Info and Updated Pricing

 **TOPCON**  
Imaging Station



- Scanning, imaging and robotic total station
- Two digital cameras – wide angle and
- Long range scanning
- Dual communication 2.4GHz radio and WiFi
- 6,500 ft. (2,000m) reflectorless measurement

# IS-3 Imaging Station

The power, accuracy, and speed of a total station with the auto-scanning capabilities of a laser scanner; Topcon's IS-3 takes material management, as-built design, and structural/environmental monitoring out of the clouds and puts it at your fingertip.

## A new way to scan

Topcon's IS-3 combines the best of two worlds, advanced imaging and high-accuracy surveying, incorporating real-time field with spatial data. The IS-3's powerful functionality using Topcon's exclusive ImageMaster™ software that produce "photography with dimension", a revolutionary alternative to laser scanning.

## Long Range Scanning

Nobody can provide the combination of laser scanning and robotic surveying like Topcon with the IS-3. With the long non-prism range of up to 6,500 ft. (2,000m), the robotic long distances as well. Mining and monitoring applications accomplished with the IS-3.

## Remote Networking

The IS-3 has WLAN capability and can be sitting in the comfort of your office or measure, control, and see what the IS-3 is doing.

## Touch Drive - Turn and select a point on screen

Simply touch the screen image to drive the telescope where you want. For the highest degree of data accuracy, That's why Topcon incorporates telescopic zoom with the telescope, pinpoint features to be measured or up to 6,500 ft. (2,000m) away.

## Continuous Monitoring

With a WiFi connection, image-based monitoring continuously and remotely. Whether done with mount reflectorlessly, this monitoring function compliments the function of our robotic surveying. The IS-3 and a WiFi technology making continuous monitoring easy.

Whether monitoring a mine, creating volume calculations, area topo, structural/environmental monitoring, or as-builts, Topcon's IS-3 provides a value-priced alternative to laser scanning.



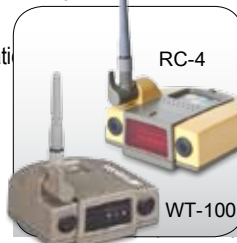
## Six On-board Scanning Methods

- Grid Scan by Specified Plane
- Grid Scan by Square
- Grid Scan by 1
- Grid Scan by A
- Grid Scan by A
- Feature Scan (all)



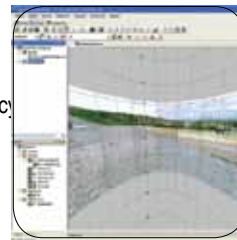
## 6,500 ft. (2,000m) Reflectorless EDM Technology

- Long range power means unsurpassed performance
- Most powerful reflectorless EDM
- Pinpoint accuracy with narrow, focused



## Integrated Radio System

- 2.4GHz Interference free spread spectrum radio + WiFi
- Optional RC-4 long-range radio and QuickLock
- Optional WT-100 long-range WiFi



## Photo Fieldbook

- A 360° panoramic image from where you occupy key. Document the jobsite with the horizontal and vertical angle grid



Set points to scan on the LCD with a tap...

**PRIMARY FEATURES**

**Spread Spectrum + Wireless WiFi Built-in**

**Powerful 6,500 ft. Reflectorless EDM (2,000m)**

**Protected Compact Flash Card Slot**

**Live Image Color Display**

**Windows® Touch Screen CE**

**Assist Focus Focus Knob**

**Servo with Motors Auto Track**

**On-board Battery**

**Digital Wide Camera 4X View**

**Through the Camera 30X Lens View**

**How it Works**

Topcon's IS-3 features dual digital imaging with cameras providing a color, real-time image on the touch 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-3 "locks" these points to their exact position on the image, even when the instrument is rotated.

Once all points to be measured are chosen, the IS-3 performs a reflectorless measurement of each point.

**TRAC 8**

- Advanced new prism tracking
- Maintains lock in tough
- Fast and accurate lock
- Extended RC-4 range



**KIT COMPONENTS**

**IS-3 Package Contents**

- Imaging Station
  - Batteries (3) and Charger
  - USB Data Cables
  - On-board TopSURV
  - Manuals and Software CDs
  - Tribrach
  - Sun and Rain Shields
  - Carry Case
-

SPECIFICATIONS	
<b>Angle Measurement</b>	
Method	Absolute Reading
Minimum Reading	1"/5" (0.1/0.5mgon)
Accuracy	1", 3", 5" (0.3mgon)
Tilt Correction	Dual Axis
Compensating Range	±6 ft. (1.8m)
<b>distance Measurement</b>	
Prism Mode	
1 prism	9,840 ft. (3,000m)
3 prism	13,120 ft. (4,000m)
9 prism	16,400 ft. (5,000m)
Accuracy (Fine)	±(2mm+2ppmxD*) m.s.e.
Non-Prism Mode	4.9 ft. - 820 ft. (1.5m - 250m)
NP Accuracy (Fine)	±(3mm)m.s.e.
Non-Prism Long Mode	16.4 ft. - 6,500 ft. (5.0m - 2,000m)
NP Long Mode Accuracy	±(10mm+10ppmxD*) m.s.e.
<b>Imaging</b>	
Cameras (2)	1.3mp
Image speed	1 - 10fps
Scanning	Max 20 pts/sec
<b>User Interface</b>	
OS	Microsoft Windows CE.NET 4.2
Processor	Intel® PXA255 400Mhz
Screen	Full Color Touch-screen

For more specification information:  
[topconpositioning.com/is3](http://topconpositioning.com/is3)

## SOFTWARE AND PACKAgES

### ImageMaster Software

Imaging Station Control and 3D Image Modeler Software

ImageMaster IS compliments the Topcon Imaging Station (IS). The control of the IS. Measurements can be taken as user resolution. The advantage of this edition is the ability the IS. Controlling the IS with a large color screen survey can be completed from the comfort of your vehicle.

**Advanced Features**

In addition to the unique data capturing and 3D modeling ImageMaster has several advanced features for manipulating and handling the models and model.

Advanced features include:

- Calculation and display of cross sections
- Calculation and display of Area calculations
- Distance measurements or TIN model generation
- Rendering models
- Ortho-images
- A variety of export (DXF, ASCII, VRML etc.)

## Topcon TotalCare

This online resource comes with ready to help. Get expert University's large collection of expert help directly from Topcon. Access software and firmware updates, publications, and guidance from all right from your computer. Please visit the TotalCare website to [topcontotalcare.com](http://topcontotalcare.com)

## Recommended Packages

<p><b>Robotic Package</b></p> <ul style="list-style-type: none"> <li>• Topcon IS-3</li> <li>• Robotic Kit</li> <li>• On-board TopSURV</li> <li>• ImageMaster IS Version</li> </ul>	<p><b>Scanning Package</b></p> <ul style="list-style-type: none"> <li>• Topcon IS-3</li> <li>• ImageMaster Standard Version</li> <li>• On-board TopSURV</li> </ul>
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**Applications:**

- Long-range Scanning:** quarry, mining, construction site, landfills.
- Mid-range Scanning:** bridge, embankments, dams, levy, PC monitoring.
- Short-range Scanning:** interior of lot as-builts.

[topconpositioning.com](http://topconpositioning.com)

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