Imaging Station

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

Provided by Xpert Survey Equipment
Click Topcon IS-03 for Product Info and Updated Pricing
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 produces "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 IS-3’s long non-prism range of up to 6,500 ft. (2,000m), the robotic can accomplish 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 vehicle controlled to a point you want. For the highest degree of data accuracy, 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 and remotely. Whether done with mount reflectorlessly, this monitoring function compliments the function of our robotic surveying. The IS-3 and feature WiFi technology making continuous monitoring easy.

Whether monitoring a mine, creating volume calculations, area topo, structural/environmental monitoring, or as-builds, 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 Rods
- Grid Scan by 1 Point
- Feature Scan (all the)

6,500 ft. (2,000m) Reflectorless EDM Technology
- Long range power means unsurpassed effective range 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
- Optional WT-100 long-range WiFi

Photo Fieldbook
- A 360° panoramic image from the occupation point is the key. Document the jobsite with the horizontal and angle grid

Set points to scan on the LCD with a tap...
Topcon’s IS-3 features dual digital imaging 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.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Angle Measurement</th>
<th>Method</th>
<th>Absolute Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Reading</td>
<td>1/5&quot; (0.10.5mg)</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>1&quot;, 3&quot;, 5&quot; (0.3mg)</td>
<td></td>
</tr>
<tr>
<td>Tilt Correction</td>
<td>Dual Axis</td>
<td></td>
</tr>
<tr>
<td>Compensating Range</td>
<td>±6 ft. (1.8m)</td>
<td></td>
</tr>
<tr>
<td>distance Measurement</td>
<td>Prism Mode</td>
<td>1 prism</td>
</tr>
<tr>
<td></td>
<td>3 prism</td>
<td>13,120 ft. (4,000m)</td>
</tr>
<tr>
<td></td>
<td>9 prism</td>
<td>16,400 ft. (5,000m)</td>
</tr>
<tr>
<td>Accuracy (Fine)</td>
<td>±(2mm+2ppmxD*) m.s.e.</td>
<td></td>
</tr>
<tr>
<td>Non-Prism Mode</td>
<td>4.9 ft. - 820 ft. (1.5m - 250m)</td>
<td></td>
</tr>
<tr>
<td>NP Accuracy (Fine)</td>
<td>±(3mm/m.s.e.)</td>
<td></td>
</tr>
<tr>
<td>Non-Prism Long Mode</td>
<td>16.4 ft. - 6,500 ft. (5.0m - 2,000m)</td>
<td></td>
</tr>
<tr>
<td>NP Long Mode Accuracy</td>
<td>±(10mm+10ppmxD*) m.s.e.</td>
<td></td>
</tr>
</tbody>
</table>

**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 |

For more specification information: topconpositioning.com/IS-3

---

**Topcon TotalCare**

This online resource comes with the support of the university’s large collection of expert help directly from Topcon.

Access software and firmware updates, publications, and guidance from Topcon TotalCare website topcontotalcare.com

---

**ImageMaster Software**

ImageMaster IS compliments the Topcon Imaging Station (IS). This IS-3 allows users to take control of the IS. Measurements can be taken using the IS-3 and prepared for later use. The advantage of this edition is the ability to remotely control the IS. Controlling the IS with a large color screen that can be completed from the comfort of your vehicle in the field.

**Advanced Features**

In addition to the unique data capturing and 3D imaging capabilities, ImageMaster has several advanced features for manipulating the models and model handling the models and model processing. 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.)

**Recommended Packages**

**Robotic Package**
- Topcon IS-3
- Robotic Kit
- Live data captured to the IS
- On-board TopSURV

**Scanning Package**
- Topcon IS-3
- ImageMaster IS
- Topcon TopSURV
- Standard Version
- Topcon TopSURV

**Applications**

- Land Surveys
- Construction Layout
- On-board TopSURV
- Scanning from mobile device
- Converting data back to Topcon IS

**Mid-range Scanning**
- Bridge, embankments, mining, quarry, landfill site, dams,
- Embankments
- Bridge, embankments

**Short-range Scanning**
- Interior of building
- Lot as-built

---

Your local Authorized Topcon dealer is: