High Quality, High Return!

- Construction and Survey Application Software
- Fast & Accurate & Powerful Measuring Distance Feature
- 500m Long Range Reflectorless Measurement
- Rugged & Waterproof Design
- Reliable Large Volume Internal Memory

Made in Japan
iM-50 Series

Fast and Powerful Reflectorless EDM
- Fast and accurate pinpointing with phase shift technology.
- Fast distance measurement of 0.9s regardless of object.
- Minimum reflectorless measuring distance - just 30cm.
- Improved collimation with super-bright pointer.
- Smaller EDM beam spot size for minimal distance measuring error.
- Dependable measuring even at shallow incidence angles.
- Ensures accurate reflectorless sheet distance measurement.

Japan Quality Products

We perform the tough environmental tests to ensure long-term operation even under the rough site environments.
IM Series total stations are thoroughly inspected with dust-proof and water-proof test chambers.
In addition, the various tests against vibration, drop, temperature, and humidity were successfully passed to achieve the best environmental spec. Also, the temperature, and humidity were successfully passed.

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The ultra-narrow EDM beam can precisely measure walls, corners, manholes on the road surface, even chain-link fences and tree branches.

Standard Package Components
- Main unit
- Battery (BDC46C)
- Battery charger (CDC68A)
- Power Cable
- Lens cap
- Lens hood
tool pouch
- Precision Scredriver
- Lens brush
- Hexagonal wrench ×2
- Cleaning cloth
- Manual
- Laser caution sign-board
- Hexagonal wrench ×2
- Battery charger (CDC646C)
- Carrying case
- Carrying strap
- Laser caution sign-board
- Lens brush
- Hexagonal wrench ×2
- Battery charger (CDC646C)
- Carrying case
- Carrying strap

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>iM-52</th>
<th>iM-55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telescope</td>
<td>Magnification / Resolving power</td>
<td>30x / 2.5&quot;</td>
</tr>
<tr>
<td>Others</td>
<td>Length : 171mm (6.7in.), Objective aperture : 45mm (1.8in.) (48mm (1.9in.) for EDM), Image: Erect, Field of view: 1°30&quot; (260m/1,000m), Minimum focus: 1.3mm (4.3ft.), Red illumination: 5 brightness levels</td>
<td></td>
</tr>
<tr>
<td>Angle measurement</td>
<td>Minimum Display (selectable)</td>
<td>175° (0.0002 / 0.001gon, 0.005 / 0.02mil)</td>
</tr>
<tr>
<td></td>
<td>Accuracy (ISO 17123-3:2001)</td>
<td>2°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5°</td>
</tr>
<tr>
<td>Dual-axis compensator</td>
<td>Dual-axis liquid tilt sensor, working range: ±6°</td>
<td></td>
</tr>
<tr>
<td>Collimation compensation</td>
<td>On/Off (selectable)</td>
<td></td>
</tr>
<tr>
<td>Distance measurement</td>
<td>Laser output</td>
<td>Reflectorless mode: Class 3R / Prism/sheet mode: Class 1</td>
</tr>
<tr>
<td>Measuring range</td>
<td>Reflective sheet</td>
<td>0.3 to 500m (1,640ft.)</td>
</tr>
<tr>
<td>(under average conditions)</td>
<td>Reflective sheet</td>
<td>RS50N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.), RS10N-K: 1.3 to 100m (4.3 to 320ft.)</td>
</tr>
<tr>
<td>Mini prisms</td>
<td>CPOI: 1.3 to 2,500m (4.3 to 8,200ft.), ORPI: 1.3 to 500m (4.3 to 1,640ft.)</td>
<td></td>
</tr>
<tr>
<td>One prism</td>
<td>1.3 to 4,000m (4.3 to 13,120ft.)</td>
<td></td>
</tr>
<tr>
<td>Minimum Display</td>
<td>Fine / Rapid</td>
<td>0.0001m (0.0001 / 1/16 in.) / 0.001m (0.001ft.) / 0.01m (0.02ft.) / 0.1m (0.2ft.) / 0.1in. (0.2in.) (selectable)</td>
</tr>
<tr>
<td>Tracking</td>
<td>0.0001m (0.0001 / 1/16 in.) / 0.001m (0.001ft.) / 0.01m (0.02ft.) / 0.1m (0.2ft.) / 0.1in. (0.2in.) (selectable)</td>
<td></td>
</tr>
<tr>
<td>Measuring time</td>
<td>Fine</td>
<td>0.9s (initial 1.5s)</td>
</tr>
<tr>
<td>Rapid</td>
<td>0.6s (initial 1.3s)</td>
<td></td>
</tr>
<tr>
<td>Tracking</td>
<td>0.4s (initial 1.3s)</td>
<td></td>
</tr>
</tbody>
</table>

OS, Interface and Data management
- Operating system: Linux
- Display / Keyboard: Graphic LCD, 192 x 80 dots, backlight: on/off (Selectable) / Alphanumeric keyboard / 28 keys with backlight
- Control panel location: On both faces
- On single face
- Data storage: Internal memory Approx. 50,000 points
- Plug-in memory device
- USB flash memory (max. 32GB)
- Interface: Serial RS-232C, USB 2.0 (Type A for USB flash memory)
- General
- Levels: 6' (Inner Circle)
- Levels Graphic 6' (Inner Circle)
- Levels: (On both faces)
- Levels: (On single face)
- Plumbmet: Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom
- Optical: Red laser diode (635mm±10nm), Beam accuracy: <=1.0mm/10mm, Class 2 laser product
- Duct and water protection / Operating temperature: IP66 (IEC 60529:2001) / -20 to +60°C (+/- to +140°F)
- Size with handle: 183(W)x181(D)x348(H)mm (On both faces) 183(W)x174(D)x348(H)mm (On single face)
- Instrument height: 192.5mm from tribrach mounting surface
- Weight with battery & tribrach: Approx. 5.1kg (11.3lb)
- Power supply: Li-ion rechargeable battery BDC46C
- Operating time (20°C) | Approx. 14hours
- Application program
- On board
- • REM Measurement
- • 3D Coordinate Measurement
- • Resection
- • Stake Out
- • Topography Observation
- • Offset Measurement
- • Missing Line Measurement
- • Intersection
- • Surface Area Calculation
- • Route Surveying
- • Point to Line

* Specifications may vary by region and are subject to change without notice.
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