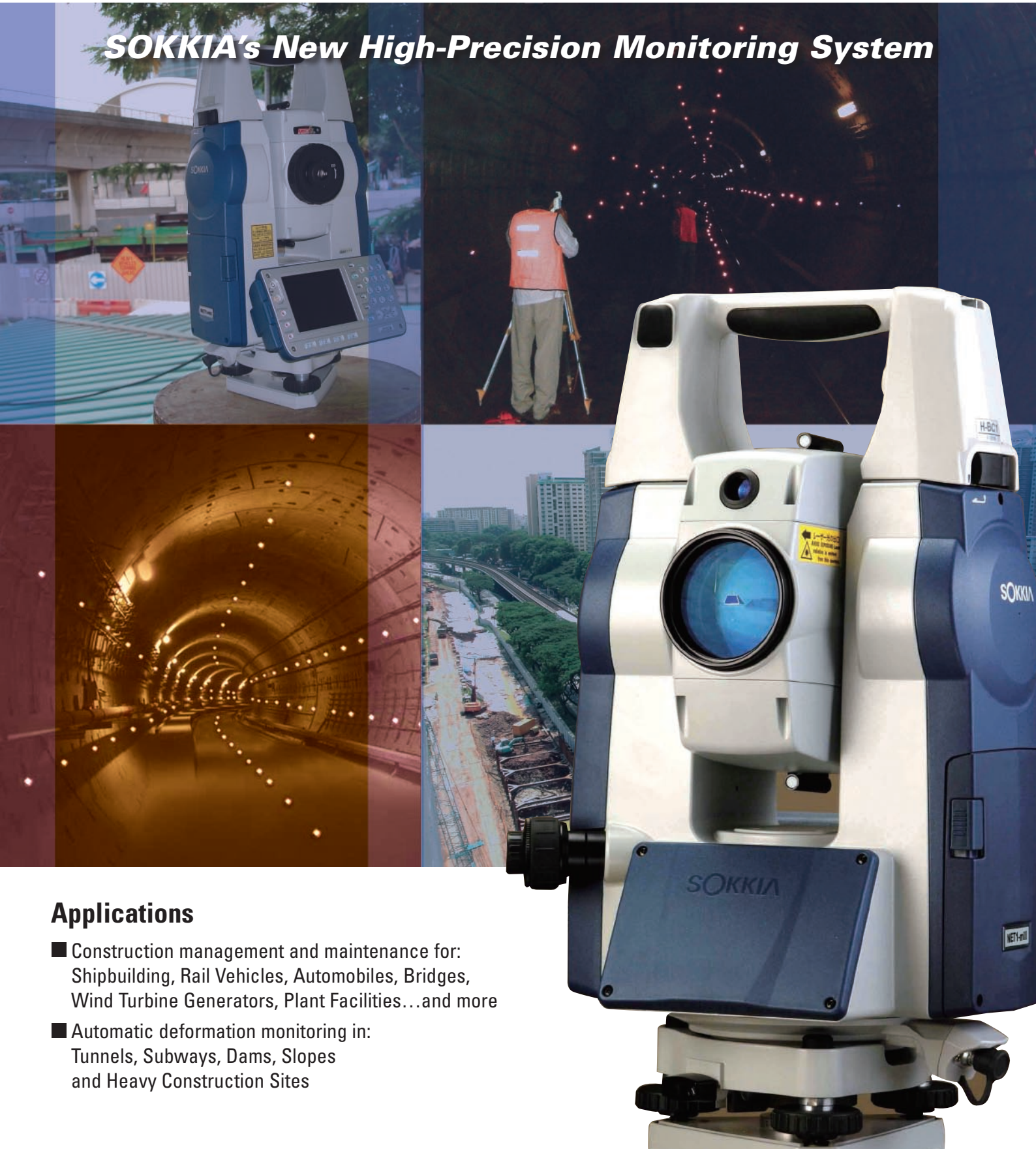
SOKKIA

# NET1-mII

## Automated 3D STATION

for 3D COORDINATE MEASURING SYSTEM MONMOS




## Applications

- Construction management and maintenance for: Shipbuilding, Rail Vehicles, Automobiles, Bridges, Wind Turbine Generators, Plant Facilities…and more
- Automatic deformation monitoring in: Tunnels, Subways, Dams, Slopes and Heavy Construction Sites

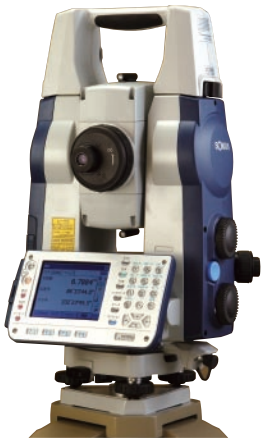
# *Auto-pointing, Motor Drive, Remote Control*

## Equipped with new features to dramatically increase measurement efficiency and save labor.

### ■ Automatic Measurement Function

In addition to a high-precision motor drive mechanism, NET1-mII can perform auto-pointing using prisms. Automatic deformation monitoring is possible for early detection of earth or structure movement.

- Auto-pointing using a single prism can be performed from as far as 1,000m (3,280ft.) away.



### ■ High-precision EDM

- NET1-mII's phase-comparison method EDM realizes a high distance accuracy of (1 + 1ppm x D)mm using prisms.
- NET1-mII offers a range of 3,000m (9,800ft.) for prisms allowing a wide range of measurement applications.

### ■ Equipped for all applications and environments

- NET1-mII can be used without worry in wet or dusty sites thanks to its high IP64 level of environmental protection.
- The NET1-mII incorporates the upgradeable Windows CE operating system. The display employs a high-visibility transreflective TFT LCD touch screen.

### NET1-mII Specifications

| | |
|---|---|
| Telescope | Objective aperture: 45mm, Magnification: 30x, Minimum focus: 1.3m |
| Angle measurement | Absolute encoder scanning, diametrical detection. |
| Accuracy (ISO 17123-3:2001) | 1" / 0.0003gon / 0.005mil |
| Display resolutions | 0.5" / 1", 0.0001 / 0.0002gon, 0.002 / 0.005mil, selectable |
| Automatic Dual Axis Compensator | Dual axis liquid tilt sensor, working range ±4' (±74mgon) |
| Distance measurement | Near-infrared laser diode (780nm) |
| Laser output | Prism mode: Class 1 equivalent (max. 0.07mW) |
| Measuring range With 1 AP prism | 1.3 to 3,000m / 4.3 to 9,800ft. |
| Accuracy With AP prism (ISO 17123-4:2001) | To 2,000m / 6,560ft: (1 + 1ppm x D)mm<br>2,000 to 3,000m / 6,560 to 9,800ft: (2 + 2ppm x D)mm |
| Display resolutions | 0.001m / 0.0001m, 0.01ft / 0.001ft. , 1/8in / 1/16in. |
| Motor drive | DC motor drive with self-locking free rotation system |
| Rotation speed | Max. 45°/s |
| Auto-pointing | Pulse laser transmitter and CCD detector integrated in telescope |
| Auto-pointing range With 1 AP prism | 1,000m / 3,280ft. |
| Auto-pointing accuracy | 2mm up to 100m / 0.08in up to 330ft.<br>3"/1mg over 100m/330ft. (2.9mm/200m / 0.11in./640ft.) |
| General | |
| Operating system | Windows CE (Ver.5.0) |
| Onboard memory | 64MB (more than 1MB available for data) |
| Interface | Serial RS-232C, USB1.1 Type A, CF card (Type 2) |
| Display | 3.5in. Transreflective TFT QVGA color LCD with touch screen function |
| Dust and water protection | Conforms to IP64 (IEC 60529) |
| Operating temperature | -10 to +50°C / 14 to 122°F |
| Size with handle and battery | W 201 x D 202 x H 375 mm / W 8.0 x D 8.0 x H 14.8 in. |
| Weight | 7.6kg / 16.8lb. |
| Power supply | 7.2V DC |
| BDC58 detachable battery | Li-ion rechargeable battery, 7.2V, 4.3Ah |
| Continuous use in auto-pointing mode*1 | About 3.5 hours |

* 1 Auto-pointing (180° rotation) and fine single measurement every 30s at 25°C (77°F).







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