



# Light Weight Deflectometers

Englo develops, designs and manufactures light weight deflectometers that are portable falling weight deflectometers (LWD) for measuring the ground elastic modulus, maximum deformation, compaction factor, elastic deflection and deformation time. The deflectometers are ideal for testing in regular as well as difficult to access areas.

The deflectometers are highly versatile, and can be used in design, construction, maintenance and quality control of buildings, subdivisions, roads, railways and other environments to measure elastic modulus of unbound or partially bound material, including asphalt, granular aggregation base, base layers, soil, concrete etc.

Englo's deflectometers are portable, compact and can easily be used by a single operator. The device's intelligent built-in electronic unit calculates and displays the results immediately after the series of measurements is completed. All measured data is stored and can be downloaded to a computer via USB or Bluetooth connection. The latest model also allows the results to be read to the user's mobile phone and forwarded via e-mail to off-site staff for real-time verification against expected results.

The deflectometers come with a full suite of control and monitoring features. A separate GPS unit is available to determine and store the exact location of the measurement, which can later be graphically displayed in Google Maps.

All Englo's light falling weight deflectometers are rated IP65 under the international IEC 60529 standard and are splash and dust proof.

**INSPECTOR-3: Light Falling Weight Deflectometer**

- Compact and easy to set up and use
- Real-time calculation and display of measurement results
- Results stored in device memory
- Computer connection with USB or Bluetooth
- Display for alarms and monitoring
- Separate GPS unit to determine and store measurement locations

**INSPECTOR-4M: Light Falling Weight Deflectometer**

- INSPECTOR-4 with built-in GPS module

**INSPECTOR-4: Light Falling Weight Deflectometer**

- Compact and easy to set up and use
- Real-time calculation and display of measurement results
- Results stored in device memory
- Computer connection with USB or Bluetooth
- Data can be sent to user’s mobile phone
- Display for alarms and monitoring
- Separate GPS unit to determine and store measurement locations
- Electronic unit can be detached for separate shipment if needed

**INSPECTOR-5: Light Falling Weight Deflectometer**

- Smaller and lighter than previous Inspector models
- Compact and easy to set up and use
- Real-time calculation and display of measurement results
- Results stored in device memory
- Computer connection with USB or Bluetooth
- Data can be sent to user’s mobile phone
- Built-in GPS module

Product	Total Weight (kg)	Falling Weight at Drop Height	Loading Force (kN)	E-Modulus Range (MPa)	Size (mm)
INSPECTOR-3 INSPECTOR-4 INSPECTOR-4M	16	10kg at 800mm	23	5 - 900	1150 x 110 x 110
INSPECTOR-5	10,8	6kg at 670 mm	11	5 - 300	1030 x 80 x 80 (110 x 110)



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