### Measurement & Inspection Tools

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<th>Description</th>
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</table>

#### Electronic Digital Measuring Set

**MB-EDI-151**

- **NEW**
- Set contains 3 of the most popular measuring and setting tools, conveniently supplied in a custom fitted storage case.
- Kit consists of 1 x 150mm/6” digital caliper, 1 x electronic digital indicator 25mm (EDI-25) and 1 x magnetic base with fine adjustment (MB-2).
- Electronic indicator features hardened, stainless steel frame and measuring jaws.
- LCD, internal/external measurement.
- True mm/inch conversion.
- Lightweight and durable.
- Supplied in fitted case with foam inserts.

#### Calipers

**150mm Digital Caliper**

- **NEW**
- LCD, internal/external measurement.
- True mm/inch conversion.
- Supplied in fitted case with spare battery.

#### Carbon Fibre Digital Caliper

- **NEW**
- Manufactured from extra strong carbon fibre composites.
- LCD, internal/external measurement.
- True mm/inch conversion.
- Lightweight and durable.

### Kits

#### Electronic Digital Measuring Set

**MB-EDI-151**

- Set contains 3 of the most popular measuring and setting tools, conveniently supplied in a custom fitted storage case.
- Kit consists of 1 x 150mm/6” digital caliper, 1 x electronic digital indicator 25mm (EDI-25) and 1 x magnetic base with fine adjustment (MB-2).
- Electronic indicator features hardened, stainless steel frame and measuring jaws.
- LCD, internal/external measurement.
- True mm/inch conversion.
- Lightweight and durable.

#### Calipers

**150mm Digital Caliper**

- LCD, internal/external measurement.
- True mm/inch conversion.
- Supplied in fitted case with spare battery.

## Intelligent Online Buying System Providing

Complete cost control, reduced administration time, visibility of your spend, flexibility and personalisation to your company’s needs.

[.farnell.com/ibuy](http://farnell.com/ibuy)
Calipers - continued

Digital Calipers
Metric/Imperial

- The most advanced caliper yet
- ABSolue Zero setting function
- Zero point at any position, deviation from a nominal (z) can be read directly
- Non-contact linear measuring system unaffected by electrical or magnetic interference
- Manufactured from fully-hardened stainless steel
- Imperial/metric switchable
- Automatic wear compensation
- Fully portable
- Positive locking clamp
- Operating temp. range 0-40°C
- Oil and dust-resistant - suitable for workshop use
- Data output, absolute and incremental operation modes incorporated into 715-5633

This is the latest version of the digimatic caliper in the 500 series. It has all the features of its predecessor with the addition of absolute zero origin point set anywhere within the measuring range, larger clearer display, single chip electronics and a new slim profile. For outside, inside, depth and step measurements.

Price Each

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-60/150mm</td>
<td></td>
<td></td>
<td>152-7216</td>
<td></td>
</tr>
</tbody>
</table>

Digital Calipers
Metric/Imperial

- Large LCD display
- Data output
- Imperial/Metric conversion
- Origin Setting
- Zero setting/ABSolute Feature
- Data hold available (optional switch required)

Value added functions
- Error free with no overspeed error
- Auto power on/off
- Incorporates Quadri Feature
- Lock Nut
- Thumb Roller
- Measurement applications: Superb resistance to Water, Oil, Dust and Coolant, making it ideal for tough workshop applications.

Price Each

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm/6&quot; 0.01mm/0.0005&quot;</td>
<td></td>
<td></td>
<td>500-762-10</td>
<td>166-7285</td>
</tr>
</tbody>
</table>

Electronic Digital Calipers
Metric/Imperial

The Absolute™ MyCal E-Z allows direct measurement from power on. You can forget the time consuming origin setup which otherwise is required each time the power is turned on. Large .295" high LCD digits allows correction measurement from power on. Large .295" high LCD digits allows measurement results to be at a glance.

Price Each

<table>
<thead>
<tr>
<th>Measuring Range</th>
<th>Resolution</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-60/150mm</td>
<td></td>
<td>152-7216</td>
<td></td>
</tr>
</tbody>
</table>

Vernier calipers
Metric/Imperial

Plain and basic design
- Can measure OD (outside diameter), ID (inside diameter), depth and steps
- The small vernier face angle (14°) provides easy reading
- Carbide-tipped jaw type calipers are also available

With depth gauge
- Measuring surface and nonius satin chrome finish
- Reading: 0.02 mm
- Supplied with a holster

Price Each

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0-150mm</td>
<td>40mm</td>
<td>530-123</td>
<td>525800</td>
<td></td>
</tr>
<tr>
<td>0-200mm</td>
<td>50mm</td>
<td>530-122</td>
<td>525801</td>
<td>100-5756</td>
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<tr>
<td>0-150mm</td>
<td>40mm</td>
<td>530-104</td>
<td>491204</td>
<td></td>
</tr>
<tr>
<td>0-200mm</td>
<td>50mm</td>
<td>530-103</td>
<td>491204</td>
<td>166-7288</td>
</tr>
</tbody>
</table>

Type Caliper
Series 530

Standard type caliper for general purpose external, internal, depth and step measurements.

Price Each

<table>
<thead>
<tr>
<th>Range</th>
<th>(mm)</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Jaw length</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-150</td>
<td>0-6</td>
<td>0.02mm / 0.0001&quot; x0.0005&quot;</td>
<td>40mm</td>
<td>715-6080</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-200</td>
<td>0-8</td>
<td>0.02mm / 0.0001&quot; x0.0005&quot;</td>
<td>50mm</td>
<td>715-6091</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-300</td>
<td>0-12</td>
<td>0.02mm / 0.0001&quot; x0.0005&quot;</td>
<td>64mm</td>
<td>321-6299</td>
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</tbody>
</table>

Heavy Duty Vernier Caliper
Metric/Imperial

- Heavy duty vernier caliper
- Fine adjustment
- Round-faced jaws for measuring inside dimensions

Price Each

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>600mm/24&quot;</td>
<td>0.02mm / 0.0001&quot;</td>
<td>525801</td>
<td>166-7288</td>
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</tr>
</tbody>
</table>
### Vernier Calipers

- Design accommodates external, internal, depth, and step measurements
- Range of high quality instruments with metric and imperial scales

<table>
<thead>
<tr>
<th>Maximum Measurement (mm)</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm (6”)</td>
<td>531128</td>
<td>715-5890</td>
<td></td>
</tr>
<tr>
<td>180mm (7”)</td>
<td>532120</td>
<td>437-358</td>
<td></td>
</tr>
</tbody>
</table>

### Dial Caliper Metric

- Wear resistant and easy moving
- High precision
- Easy to read
- Made from stainless steel
- High precision jewelled mechanism

<table>
<thead>
<tr>
<th>Range</th>
<th>Graduation</th>
<th>Accuracy</th>
<th>List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-200mm</td>
<td>0.02mm</td>
<td>± 0.03mm</td>
<td>505-672</td>
<td>166-7290</td>
<td></td>
</tr>
<tr>
<td>0-300mm</td>
<td>0.02mm</td>
<td>± 0.04mm</td>
<td>505-673</td>
<td>166-7291</td>
<td></td>
</tr>
</tbody>
</table>

### Digital Depth Caliper Rule

- With HITEC data output
- Stainless steel
- With fixing screw

<table>
<thead>
<tr>
<th>Measurement Range (mm)</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>100-40</td>
<td>439-5517</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>100-82</td>
<td>439-5529</td>
<td></td>
</tr>
</tbody>
</table>

### Vernier Depth Gauge Metric

- Measures the depth of bores, recesses and steps
- Main and vernier scales satin chrome plated
- The measuring faces and guideways are hardened and micro-lap finished
- Stainless
- Standard model
- Fine adjustment
- Clear graduations on satin chrome finish

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-150mm</td>
<td>0.02mm/0.001”</td>
<td>527-101</td>
<td>166-7268</td>
<td></td>
</tr>
</tbody>
</table>

### Digimatic Depth Gauge Metric/Imperial

- One-time settings of origin that holds until the battery is changed or the origin point is reset
- Guaranteed precision even with high speed movements
- Large-digit display for easy reading
- Rustless, hardened and lapped measuring faces
- Imperial/Metric conversion
- Zero setting/ABSolute feature
- ABSolute feature allows caliper to retain origin setting even when switched off
- Error free with no overspeed error
- Data hold available (optional switch required)
- Data output
- Lock nut
- Base width: 100mm
- Length: 237mm

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-150mm/0-6”</td>
<td>0.01mm/0.0005”</td>
<td>571-211-20</td>
<td>166-7287</td>
<td></td>
</tr>
</tbody>
</table>

### HDS Digimatic Height Gauge

Robust construction with thick column providing highly repeatable height measurement and stability.

- Fine adjustment
- Clear LCD screen for error free reading
- Tungsten Carbide tipped scriber
- Imperial/Metric conversion
- Zero/ABSolute
- Presetting
- Direction change
- Data Hold
- Data output

<table>
<thead>
<tr>
<th>Measuring Range</th>
<th>Accuracy</th>
<th>Height (mm)</th>
<th>Base (mm)</th>
<th>Width (mm)</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-300 mm/0-12”</td>
<td>±0.03 mm/0.0015”</td>
<td>507</td>
<td>160</td>
<td>122</td>
<td>76</td>
<td>570-312-20</td>
<td>166-7290</td>
</tr>
</tbody>
</table>

### Micrometers

- Ultra-Fast and Water resistant, this ground breaking Micrometer is suitable for use in areas when there is a high risk of coolant splash. Large LCD display for error free external measurements.

#### Micrometer Fast-Action

- Ultra-Fast Measurement
- Large LCD display
- Imperial/Metric conversion
- Origin setting and Zero setting
- Data hold and Data output
- Auto power off
- IP65 Rated
- Tungsten Carbide tipped measuring faces
- Accuracy: ± 1µm

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25mm/0-1”</td>
<td>0.01mm/0.0005”</td>
<td>293-185</td>
<td>166-7329</td>
<td></td>
</tr>
<tr>
<td>25-50mm/1-2”</td>
<td>0.01mm/0.0005”</td>
<td>293-186</td>
<td>166-7340</td>
<td></td>
</tr>
</tbody>
</table>
### Micrometers - continued

#### Digimatic Outside Micrometer

**Metric/Imperial**

- Tungsten Carbide tipped measuring faces
- Type R = Ratchet
- IP65 Rated

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25mm</td>
<td>0.001mm</td>
<td>1+</td>
<td>293-230</td>
<td>441-530</td>
</tr>
<tr>
<td>25-50mm</td>
<td>0.001mm / 0.00005&quot;</td>
<td>3+</td>
<td>293-331</td>
<td>166-7292</td>
</tr>
<tr>
<td>50-75mm</td>
<td>0.001mm / 0.00005&quot;</td>
<td>3+</td>
<td>293-332</td>
<td>166-7293</td>
</tr>
<tr>
<td>75-100mm</td>
<td>0.001mm / 0.00005&quot;</td>
<td>3+</td>
<td>293-333</td>
<td>166-7295</td>
</tr>
</tbody>
</table>

#### Digimatic Outside Micrometer

**Water Resistant**

- Tungsten Carbide tipped measuring faces

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25mm</td>
<td>0.001mm / 0.00005&quot;</td>
<td>1+</td>
<td>293-334</td>
<td>168-7296</td>
</tr>
</tbody>
</table>

#### Digimatic Micrometer

**Water Resistant**

- Large LCD display
- Imperial/Metric conversion
- Origin setting
- Auto power off
- IP-65 Level Water resistance

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25mm/0-1&quot;</td>
<td>0.001mm / 0.00005&quot;</td>
<td>1+</td>
<td>293-344</td>
<td>106-7128</td>
</tr>
<tr>
<td>25-50mm/1-2&quot;</td>
<td>0.001mm / 0.00005&quot;</td>
<td>3+</td>
<td>293-345</td>
<td>168-7297</td>
</tr>
</tbody>
</table>

### Quickmike Micrometer

- Absolute feature for error-free operation
- Can be connected to an SPC data processor
- Measuring force 5-10N

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>293-676</td>
<td>715-6327</td>
<td></td>
</tr>
</tbody>
</table>

### Micrometer

**Metric/Imperial**

- Accuracy: ± 2µm / ± 0.0001"

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25mm/0-1&quot;</td>
<td>0.001mm / 0.00005&quot;</td>
<td>1+</td>
<td>293-632</td>
<td>321-8239</td>
</tr>
</tbody>
</table>

#### Electronic Micrometer

**LINEARTOOLS**

- Digital display allows quick easy depth measurements
- Large LCD display
- Ratchet performs uniform and consistent readings
- Imperial/Metric conversion
- Zero setting
- Data hold and Data output
- Spindle lock
- Auto power off
- Accuracy: ± 3µm
- Base size: 100x16mm

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-739-001</td>
<td>210-2056</td>
<td>3+</td>
</tr>
</tbody>
</table>

#### Electronic Micrometer

**Metric/Metric**

- Metric / Inch conversion
- Spindle lock
- Ratchet stop
- Digit display size: 8mm
- Operating temperature: 0 to 40°C
- Measuring force: 5 - 10N

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>051570</td>
<td></td>
<td>3+</td>
</tr>
</tbody>
</table>

#### Electronic Micrometer

**Outside Micrometer**

- Carbide tipped measuring faces
- Clear graduations on satin chrome finish
- Spindle lock
- Frame is fitted with heat shields
- Accuracy: ± 2µm

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Graduation</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>102-721</td>
<td>441-5899</td>
<td>1+</td>
<td></td>
</tr>
<tr>
<td>0-25mm/0-1&quot;</td>
<td>0.001mm / 0.00005&quot;</td>
<td>3+</td>
<td>166-7298</td>
</tr>
</tbody>
</table>

#### Electronic Micrometer

- Suitable for all external measurements in either workshop or inspection departments
- Enamelled frame
- Tungsten Carbide tipped measuring faces
- Clear graduations on satin chrome finish
- Spindle lock

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>103-125</td>
<td>166-7301</td>
<td>3+</td>
</tr>
<tr>
<td>103-129</td>
<td>166-7303</td>
<td>3+</td>
</tr>
<tr>
<td>103-137</td>
<td>437-271</td>
<td>5+</td>
</tr>
</tbody>
</table>

## Tools and Maintenance

- **Tools - Measurement & Inspection**

### Tools - Measurement & Inspection

- **Tungsten Carbide tipped measuring faces**
- **Type R = Ratchet**
- **IP65 Rated**
### Mechanical Micrometer Sets

**Metric and Inch**

Mechanical micrometer sets supplied with 6 micrometers and 5 setting rods with deluxe fitting cases.

- Micro fine graduations for accurate reading
- Tungsten carbide measuring faces
- Spindle locking lever
- Ratchet stop
- Non-glare, satin chrome barrel and sleeve with blue baked enamel hammer tone finish
- Supplied in sets of 6 with 5 setting rods

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>List No.</th>
<th>Range</th>
<th>Graduation</th>
<th>Spindle End</th>
<th>Ratchet Stop</th>
<th>Accuracy</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-200-150</td>
<td>Metric</td>
<td>0-150mm</td>
<td>0.01mm</td>
<td>Flat Steel</td>
<td>No</td>
<td>0.005mm</td>
<td>250-350</td>
</tr>
<tr>
<td>50-200-006</td>
<td>Inch</td>
<td>0-6&quot;</td>
<td>0.01mm</td>
<td>Flat Steel</td>
<td>No</td>
<td>0.001&quot;</td>
<td>250-350</td>
</tr>
</tbody>
</table>

### Electronic Micrometer Anvil Head

Electronic micrometer with metric/inch conversion. Clear LCD display as well as IP54 Splash proof and to DIN863/1.

- Relative and absolute modes
- Resolution 0.001mm/0.0005
- Accuracy: 0.003mm
- Tungsten carbide anvils
- Features spindle lock, ratchet stop and setting rods
- Supplied in a fitted case

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>List No.</th>
<th>Range</th>
<th>Graduation</th>
<th>Base Size</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-180-025</td>
<td>25-50mm</td>
<td>0.01mm</td>
<td>7mm</td>
<td>2</td>
<td>141-101</td>
</tr>
<tr>
<td>50-182-013</td>
<td>0-13mm</td>
<td>0.01mm</td>
<td>16mm</td>
<td>0.004mm</td>
<td>129-116</td>
</tr>
<tr>
<td>50-184-006</td>
<td>0-6.5mm</td>
<td>0.01mm</td>
<td>60</td>
<td>0.003mm</td>
<td>210-2062</td>
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</tbody>
</table>

### Mechanical Micrometer Heads

Micrometer heads available in a variation of measuring ranges. Accuracy conforms to DIN863

- Micro fine graduations for accurate reading
- Non-glare satin chrome barrel and sleeve
- Supplied with adjustment tool

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>List No.</th>
<th>Range</th>
<th>Graduation</th>
<th>Spindle End</th>
<th>Ratchet Stop</th>
<th>Accuracy</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-184-006</td>
<td>0 - 0.5mm</td>
<td>0.01mm</td>
<td>Flat Steel</td>
<td>No</td>
<td>0.005mm</td>
<td>210-2061</td>
<td></td>
</tr>
<tr>
<td>50-182-013</td>
<td>0 - 13mm</td>
<td>0.01mm</td>
<td>Flat Steel</td>
<td>No</td>
<td>0.004mm</td>
<td>210-2062</td>
<td></td>
</tr>
<tr>
<td>50-180-025</td>
<td>0 - 25mm</td>
<td>0.01mm</td>
<td>Flat / TC</td>
<td>Yes</td>
<td>0.003mm</td>
<td>210-2063</td>
<td></td>
</tr>
</tbody>
</table>

### Fixed Rod Type Depth Micrometer

- Ideal for general depth measurements
- 4mm diameter measuring rod
- 2 base sizes available
- Ratchet performs uniform and consistent readings
- Clear graduations on satin chrome finish
- Accuracy: ± 3µm

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>List No.</th>
<th>Range</th>
<th>Graduation</th>
<th>Base Size</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25mm</td>
<td>0.01mm</td>
<td>60 x 16mm</td>
<td>129-101</td>
<td>166-7313</td>
<td></td>
</tr>
</tbody>
</table>

### Mitutoyo

- Flexible depth measurements over a wide range with interchangeable rods
- 4mm diameter measuring rod
- 2 base sizes available
- Ratchet performs uniform and consistent readings
- Clear graduations on satin chrome finish
- Zero adjustable thimble
- Accuracy: ± 3µm

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>List No.</th>
<th>Range</th>
<th>Graduation</th>
<th>Number of rods</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>0 - 75mm</td>
<td>60 x 16mm</td>
<td>0.01mm</td>
<td>3</td>
<td>129-110</td>
</tr>
<tr>
<td>50-150mm</td>
<td>100 x 16mm</td>
<td>0.01mm</td>
<td>6</td>
<td>129-116</td>
<td></td>
</tr>
</tbody>
</table>

### Large Range Extension Rod Inside Micrometer

- Wide measuring range with interchangeable anvils which are hardened and ground
- Lightweight but rigid
- Clear graduations on satin chrome finish
- Accuracy: ± (6+L/50)µm

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>List No.</th>
<th>Range</th>
<th>Graduation</th>
<th>Stroke</th>
<th>Number of rods</th>
<th>Spacing collars</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>25-50mm</td>
<td>0.01mm</td>
<td>7mm</td>
<td>2</td>
<td>141-101.</td>
<td>166-7319</td>
<td></td>
</tr>
</tbody>
</table>

### Troubleshooting Tips

Chat online to one of our technical engineers at farnell.com
### Micrometers - continued

#### Metric

- **Standard type Micrometer Head**
  - Clear graduations on satin chrome finish
  - Price Each

<table>
<thead>
<tr>
<th>Range</th>
<th>Graduation</th>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
<th>1+</th>
<th>3+</th>
<th>5+</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-13mm</td>
<td>0.01mm</td>
<td>148-104</td>
<td>166-7321</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Metric

- **Miniature Micrometer Head for incorporating into small jigs and fixtures**
  - Clear graduations on satin chrome finish
  - Accuracy: ± 5µm
  - Price Each

<table>
<thead>
<tr>
<th>Range</th>
<th>Graduation</th>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
<th>1+</th>
<th>3+</th>
<th>5+</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6.5mm</td>
<td>0.01mm</td>
<td>148-201</td>
<td>166-7322</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Metric

- **Standard Type Micrometer Head**
  - Zero adjustable Thimble
  - Accuracy: ± 2µm
  - Price Each

<table>
<thead>
<tr>
<th>Range</th>
<th>Graduation</th>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
<th>1+</th>
<th>3+</th>
<th>5+</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-13mm</td>
<td>0.01mm</td>
<td>148-503</td>
<td>166-7323</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Micrometer Heads

- **Standard type Micrometer Head**
  - Clear graduations on satin chrome finish
  - Zero adjustable Thimble
  - Accuracy: ± 2µm
  - Supplied with spindle lock and set nut
  - Price Each

<table>
<thead>
<tr>
<th>Range</th>
<th>Graduation</th>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
<th>1+</th>
<th>3+</th>
<th>5+</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-13mm</td>
<td>0.01mm</td>
<td>148-504</td>
<td>166-7325</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Micrometer Heads

- **Micrometer Heads**
  - Accurate to BS1734. For use in jigs, fixtures or precision measuring instruments.
  - Price Each

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
<th>20+</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 13mm graduations 0.01mm. Fitted with ratchet but not locknut</td>
<td>137-6781</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 25mm graduations 0.01mm. Fitted with ratchet and locking screw</td>
<td>137-6782</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Standards & Maintenance

- **Indicators and Magnetic Stands**

#### Digital Display "Dial" Indicator

- **IDS type Digimatic indicator is a plunger style comparative measuring gauge**
  - LCD readout and SPC connectability
  - Splash proof construction with membrane sealed buttons
  - Readout is metric or Imperial in the range 12.7mm (0.5") with a resolution of 0.01mm (0.0005")
  - Price Each

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Order</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>543-682</td>
<td>401-449</td>
<td></td>
</tr>
</tbody>
</table>
**Series 543 Digimatic Indicators**

- Large LCD Display
- Imperial/Metric conversion
- Absolute feature
- Direction Change
- Zero setting
- On/Off
- Preset
- Tolerance setting
- Data output
- Magnified judgement results
- 330 degree bezel rotation

Simple to use yet powerful features make these indicators exceptionally productive instruments for many applications.

<table>
<thead>
<tr>
<th>Mitres. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>543-391B</td>
<td>171-6017</td>
</tr>
</tbody>
</table>

---

**Metric Dial Indicator**

Water resistant for harsher environments where indicator is liable to be splashed.

<table>
<thead>
<tr>
<th>Measuring Range</th>
<th>Graduation</th>
<th>Scale</th>
<th>Range per revolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10mm</td>
<td>0.01mm</td>
<td>0-100 (100-0)</td>
<td>1mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mitres. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>2046S</td>
<td>441-5980</td>
</tr>
</tbody>
</table>

---

**Metric Dial Indicator**

Conventional size, easy to read Indicator for most general applications.

- Revolution Counter
- Limit Hands
- Jewelled
- Accuracy: ± 5µm

<table>
<thead>
<tr>
<th>Measuring Range</th>
<th>Graduation</th>
<th>Scale</th>
<th>Measuring force</th>
<th>Range per revolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1mm</td>
<td>0.001mm</td>
<td>0-100-0</td>
<td>1.5N</td>
<td>0.2mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mitres. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>21095-10</td>
<td>166-7328</td>
</tr>
</tbody>
</table>

---

**Dial Indicators**

Where access is restricted, Machine Tool settings or for comparative measurement with Height Gauge/stand.

- Face diameter 39mm
- High sensitivity and quick response from jewelled bearings
- Non clutch type for automatic reversal of measuring direction
- One piece bezel and crystal fitted with ‘O’ ring to resist water and dust
- Scratch resistant, glare free crystal
- Supplied with Tungsten Carbide tipped contact point
- With Dovetail mounts
- T Suffix products supplied as sets containing Indicator and a range of accessories

<table>
<thead>
<tr>
<th>Mitres. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>21095-10</td>
<td>166-7328</td>
</tr>
</tbody>
</table>

---

**Mitutoyo**

- Revolution Counter
- Limit Hands
- Jewelled
- Accuracy: ± 5µm

**Mitutoyo**

- Revolution Counter
- Limit Hands
- Jewelled
- Accuracy: ± 5µm

**Mitutoyo**

- Revolution Counter
- Limit Hands
- Jewelled
- Accuracy: ± 5µm

---

**Dial Gauges Metric**

- Dial size 60mm/2 1/4in diameter. Fitted with standard lug back fitting, hardened and ground racks, adjustable dial, bezel lock and tolerance pointers.

<table>
<thead>
<tr>
<th>Mitres. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>513-404E</td>
<td>116-7250</td>
</tr>
<tr>
<td>513-404T</td>
<td>441-6503</td>
</tr>
</tbody>
</table>

---

**Lever Dial Test Indicator Dua-dial**

Lever dial test indicator with dual reading metric/inch on a single dial.

- Adjustable bezel
- Satin chrome body with dovetail on 3 tails
- Supplied with 6 and 8mm spigots

<table>
<thead>
<tr>
<th>Mitres. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>55-100-200</td>
<td>210-2084</td>
</tr>
</tbody>
</table>

---

**Magnetic Stand**

- Magnetic base stand suitable for most Mitutoyo dial indicators
- The indicator can be lug or stem mounted (stem 8mm dia.)
- Powerful magnetic base has an on/off lever preventing damage to delicate surfaces
- Overall height = 220mm, Maximum reach = 145mm

<table>
<thead>
<tr>
<th>Mitres. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>70158N</td>
<td>437-4050</td>
</tr>
</tbody>
</table>

---

**Flexible Magnetic Stand**

- Flexible Magnetic Stand
- Adjustable segments connected with steel cable
- Cable locked with lever at bottom of base
- On/off lever to release the magnet
- Suitable for stem diameters of 6mm, 8mm and 3/8"
- 60kgf Magnetic Pull

<table>
<thead>
<tr>
<th>Mitres. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>7012-10</td>
<td>166-7334</td>
</tr>
</tbody>
</table>
**Indicators and Magnetic Stands - continued**

### Mini Magnetic Stand
- Mini Magnetic Stand for tight applications
- Permanent Magnet
- Ideal for Dial Test Indicators with 6mm or 8mm diameter stems or dovetail
- 15kgf Magnetic Pull

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7014</td>
<td>106-7335</td>
</tr>
</tbody>
</table>

### Articulated Magnetic Stand
- Uni joint stand sections fixed by means of hydraulic clamping
- Suitable for stem diameters of 8mm and 3/8"
- 60kgf Magnetic Pull

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7019B</td>
<td>427-3436</td>
</tr>
</tbody>
</table>

### Magnetic Base
- Segmented snake arm can be locked in any position
- Provides clamping for plunger and lever indicators between 1/8" and 5/16"
- Fitted with a powerful magnetic base which has 80 kg pull indicator supplied separately

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7301</td>
<td>186-7337</td>
</tr>
</tbody>
</table>

### Thickness Gauges
- For use in the measurement, inspection and positioning of workpieces with dial indicators
- To measure the flatness of a workpiece after grinding or milling
- For checking concentricity of a workpiece
- All stands will clamp onto curved and flat surfaces, with the exception of E909 (flat only)

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Switching</th>
<th>Fitment</th>
<th>Maximum Order</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Type</td>
<td>Type</td>
<td>Hold Code</td>
</tr>
<tr>
<td>E905-F</td>
<td>Lever</td>
<td>Heavy duty</td>
<td>80kg</td>
</tr>
<tr>
<td>E906-F</td>
<td>Lever</td>
<td>Heavy duty with fine adjustment</td>
<td>80kg</td>
</tr>
<tr>
<td>E907M/F</td>
<td>Lever</td>
<td>Flexible snake arm F/A</td>
<td>80kg</td>
</tr>
<tr>
<td>E910F</td>
<td>Lever</td>
<td>Mechanical one piece</td>
<td>80kg</td>
</tr>
<tr>
<td>E909F</td>
<td>Non-switchable</td>
<td>One pillar</td>
<td>14kg</td>
</tr>
</tbody>
</table>

### Thickness Gauge
- Compact pocket sized Digimatic thickness gauge
- Inch/metric conversion
- Measuring faces are hardened, ground and lapped
- Ideal for measuring paper, leather, plastic, sheet metal and film

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Measuring Range</th>
<th>Accuracy</th>
<th>Mfrs. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01mm</td>
<td>0-10mm</td>
<td>±0.02mm</td>
<td>700-118</td>
<td>321-6342</td>
</tr>
<tr>
<td>0.0005&quot;</td>
<td>0-05&quot;</td>
<td>±0.001mm</td>
<td>700-118</td>
<td>321-6342</td>
</tr>
</tbody>
</table>

### Metric
- Allows simple, quick and accurate thickness measurement.
- Thumb lever to lift spindle
- Flat anvils made of ceramic
- Bezel is adjustable for easy zero setting

<table>
<thead>
<tr>
<th>Graduation</th>
<th>Range</th>
<th>Measuring Force</th>
<th>Mfrs. List No.</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01mm</td>
<td>0-10mm</td>
<td>1.4N</td>
<td>7301</td>
<td>211-3719</td>
</tr>
</tbody>
</table>

### Gauges
- The TPG3 is a pocket tyre pressure gauge with an angled head designed to fit onto the tyre valve at 90 degrees.
- It incorporates a self-adjusting friction device which enables the pressure to be read when the tyre pressure gauge is removed from the tyre valve, and a positive sealing washer to ensure reliability. Features integral pocket clip and removable protective cap.
- Incorporates a self-adjusting friction device which enables the pressure to be read when the tyre pressure gauge is removed from the tyre valve
- A positive sealing washer ensures reliability

<table>
<thead>
<tr>
<th>Calibration</th>
<th>Accuracy</th>
<th>Mfrs.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>List No.</td>
<td>10-12bar &amp; 0.8-8.2bar units</td>
</tr>
</tbody>
</table>

---

**Tools - Measurement & Inspection**

**Magnetic Stands Lever Switch and Non-Switchable**

2113714  2113716  2113717  2113718  2113719

Complete magnetic bases for the solid holding of precision measuring equipment.
Non corrosive and oil soluble
Calibration card supplied
Volumetric measurement takes surface roughness into account

Feeler Gauges
0.5mm 18 blades at 1.5, 2, 3, 4, 6, 8, 10, 12, 15, 25 thousandths of an inch
0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8mm

Plastigauge
Provides a simple but accurate method for measurement of running/static clearance between hidden surfaces, such as big end or mains bearings, pipe flanges, head gasket, high spots, housings, injection moulding tools etc
Can highlight, clearance, lobing, ovality on shafts
Volumetric measurement takes surface roughness into account
Calibration card supplied
Non corrosive and oil soluble

Feeler Gauges Sets
Each gauge comprises a set of steel tapered blades, hardened, tempered and polished, mounted in a steel case. 12.7mm width.

Plastigauge

Feeler Gauges

Precision Brand Inch Plastic Shim Assortment Packs

Feeler Gauges

Overall Length
100-342, 100-343 = 105
108-344 = 160
IMPERIAL 108-342
10 blades at 1.5, 2, 3, 4, 6, 8, 10, 12, 15, and 25 thousandths of an inch
108-343 (METRIC) 100.05, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8mm
108-344 (METRIC) 18 blades at 1.5, 2, 3, 4, 6, 8, 10, 12, 15, 25 thousandths of an inch and 0.05, 0.1, 0.2, 0.25, 0.3, 0.4, 0.5mm

Feeler Gauges

- Precision gauges with tapered 100 mm blades and electrically etched non-metals
- Blades fold into metal case
- Set contents:
  - Metric: 0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.00mm
  - Imperial: 0.002, 0.003, 0.004, 0.005, 0.006, 0.008, 0.010, 0.012, 0.015, 0.020, 0.025, 0.030, 0.035 thousandths of an inch
Feeler Gauge Kits
5 and 12" Blades

Plastic feeler gauges supplied in sets of 1/6 13 piece blades. Available in 5 and 12" lengths
- Blade thickness from 0.0005" / 0.013mm to 0.030" / 0.762mm
- Blade materials: Polyester and vinyl
- Colour coded blades

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Blade</th>
<th>List No.</th>
<th>Length</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
</tr>
</thead>
<tbody>
<tr>
<td>77-178-905</td>
<td>5&quot;</td>
<td>210-2076</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>77-178-900</td>
<td>12&quot;</td>
<td>210-2077</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Feeler Gauge Kit
Brass

Brass feeler gauge assortments in a sturdy vinyl case with individual blade pockets. Set contains 20 blades (1/2" x 5")
- Thickness from 0.001" / 0.025mm to 0.03" / 0.762mm
- Manufactured to 260 alloy
- Blades etched with inch and metric sizes
- Rounded, smooth ends for safe handling

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>List No.</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
</tr>
</thead>
<tbody>
<tr>
<td>77-176-740</td>
<td>210-2078</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Squares

7½" Rosewood Sliding Bevel

- Hardwood handle
- Etched stainless steel sliding blade
- Blade length 9"

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Blade</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
<th>20+</th>
<th>50+</th>
</tr>
</thead>
<tbody>
<tr>
<td>482095</td>
<td>482096</td>
<td>144-7559</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9" Rosewood Square

- Solid redwood handle
- Brass face and fasteners
- Durable laser etched blade
- 7½” graduations

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Blade</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
<th>20+</th>
</tr>
</thead>
<tbody>
<tr>
<td>482095</td>
<td>482096</td>
<td>144-7560</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Combination Square

- Diecast metal body precision machined on three faces, finished in a high VIs yellow for ease of location.
- The head also includes 360° all round visibility vial, brass nut and scriber fittings.
- The blade is 12 inch/300mm long and is etched with clear graduations and coated to provide resistance to rust.

<table>
<thead>
<tr>
<th>Mfrs.</th>
<th>Blade</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
<th>20+</th>
</tr>
</thead>
<tbody>
<tr>
<td>478032</td>
<td>478033</td>
<td>135-3443</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Gauges - continued

Dividers And Calipers
No 50 Dividers

Spring type. Solid nut. Points are hardened and ground to allow for marking out.

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>Size (in)</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
<th>20+</th>
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</thead>
<tbody>
<tr>
<td>75</td>
<td>3</td>
<td>137-6786</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>4</td>
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<tr>
<td>150</td>
<td>6</td>
<td>137-6788</td>
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<tr>
<td>200</td>
<td>8</td>
<td>137-6790</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>250</td>
<td>10</td>
<td>137-6791</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>12</td>
<td>137-6792</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Protractors

- Used for drawing radial lines, transferring angles and setting bevels
- Made from tempered steel with satin-chrome finish
- Measures angles from 0° - 180°C
- Features 6" arm and knurled thumb lock nut
- Head measures 3” x 2”
- Available with round or square end

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>Size (in)</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
<th>20+</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>3</td>
<td>136-3663</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>4</td>
<td>136-3664</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>6</td>
<td>136-3665</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Levels

Rigid aluminium frame for long life. Shock resistant rubber ends prevent damage. 300mm long, 3 vial. Three options available.

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
<th>20+</th>
</tr>
</thead>
<tbody>
<tr>
<td>High impact torpedo level</td>
<td>136-3663</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnetic high impact torpedo level</td>
<td>136-3665</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Torpedo Level

Heavy duty aluminium cast frame level. Large top read vial window, tinted 360° vials for easy reading. Magnetic strip allows hand free operation on metal surfaces.

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>Length (in)</th>
<th>Order Code</th>
<th>1+</th>
<th>5+</th>
<th>10+</th>
<th>20+</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>9</td>
<td>716-8810</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Foamcast

Lightweight and shock resistant ABS structure. 0°, 90° and 45° vials for accuracy. Hi-Viz yellow open frame girder body.

<table>
<thead>
<tr>
<th>Length (cm)</th>
<th>Length (in)</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>12</td>
<td>135-3656</td>
<td>1+</td>
</tr>
<tr>
<td>45</td>
<td>18</td>
<td>135-3657</td>
<td>5+</td>
</tr>
<tr>
<td>60</td>
<td>24</td>
<td>135-3658</td>
<td>10+</td>
</tr>
<tr>
<td>120</td>
<td>48</td>
<td>135-3659</td>
<td>20+</td>
</tr>
</tbody>
</table>

Series 2-3 vial

Extruded aluminium box-section body. Sizes up to and including 120cm long are fitted with three vials and model 180cm has four vials. Accuracy 0.5mm per metre.

<table>
<thead>
<tr>
<th>Length (cm)</th>
<th>Length (in)</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>24</td>
<td>135-3441</td>
<td>1+</td>
</tr>
<tr>
<td>90</td>
<td>36</td>
<td>135-3442</td>
<td>5+</td>
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<tr>
<td>100</td>
<td>40</td>
<td>135-3443</td>
<td>10+</td>
</tr>
<tr>
<td>120</td>
<td>48</td>
<td>135-3444</td>
<td>20+</td>
</tr>
</tbody>
</table>

Spirit Levels

24°, 36°, 48° and 72°

- Ridged end caps
- Made from aluminium with powder coated finish
- Milled base
- 24°, 36°, 48° and 72° available

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>057201</td>
<td>135-3438</td>
<td>1+</td>
</tr>
<tr>
<td>052162</td>
<td>210-3267</td>
<td>5+</td>
</tr>
<tr>
<td>052163</td>
<td>210-3268</td>
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<td>052164</td>
<td>210-3269</td>
<td>20+</td>
</tr>
<tr>
<td>052165</td>
<td>210-3260</td>
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</tbody>
</table>

Standard Level

- Accuracy 0.75 mm/m when used upside down.
- Solid die-cast aluminium body.
- Electrostatic powder coating.

<table>
<thead>
<tr>
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<th>Order Code</th>
<th>Price Each</th>
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</thead>
<tbody>
<tr>
<td>30/8.40</td>
<td>182-5507</td>
<td>1+</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5+</td>
</tr>
</tbody>
</table>

Electronic Level

150mm

150mm electronic level with large 11cm LCB display. Optional back-light illumination.
- Measurement range angles: 360° in 4 x 90° segments
- Display inverts automatically for use on the underside of work pieces
- Audible beep can be selected to indicate 0 to each 10° position up to 90°
- Dimensions: 155 x 53 x 28mm

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>59-017-150</td>
<td>210-2075</td>
<td>1+</td>
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<td></td>
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<td>5+</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10+</td>
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</tbody>
</table>

Engineers Levels

- High precision longitudinal and traverse vials make it possible to check or level surfaces
- Incorporates zero adjustment levels
- Vee slot in base

<table>
<thead>
<tr>
<th>Size</th>
<th>Sensitivity</th>
<th>Graduation</th>
<th>Order Code</th>
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</thead>
<tbody>
<tr>
<td>250mm</td>
<td>0.02mm/inch</td>
<td>0.02mm/inch</td>
<td>321-6410</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Sensitivity</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-02mm/metre</td>
<td>321-6410</td>
<td></td>
</tr>
</tbody>
</table>

Metal Bulls Eye Spirit Level

Bulls eye level which has a single vial which operates in horizontal plane. Ideal for permanent attachment to mobile equipment.

- Plastic version: Ideal where a weatherproof level is required.
- Metal version: Ideal for use on indoor equipment where a high level of finish/presentation is required

<table>
<thead>
<tr>
<th>Length</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot;</td>
<td>135-3656</td>
<td>1+</td>
</tr>
<tr>
<td>36&quot;</td>
<td>135-3657</td>
<td>5+</td>
</tr>
<tr>
<td>48&quot;</td>
<td>135-3658</td>
<td>10+</td>
</tr>
<tr>
<td>72&quot;</td>
<td>135-3659</td>
<td>20+</td>
</tr>
</tbody>
</table>

Cross Check Spirit Level

- Cross Check Spirit Level
- Levels any surface in 2 directions
- Dimensions: 44mm x 60mm x 13.5mm
- 2 Screw holes for mounting 4mm dia. x 25mm centres
- Accuracy 3mm per metre

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>171-3771</td>
<td>1+</td>
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<tr>
<td></td>
<td>171-3772</td>
<td>5+</td>
</tr>
<tr>
<td></td>
<td>171-3773</td>
<td>10+</td>
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</tbody>
</table>

DNM 60 L Professional Inclinometer

- Automatic rotation of the measured values on the display when working overhead
- Audible signal at 0° and 90°
- Easy calibration function for sustained accuracy
- Robust aluminium housing
- Slanted, easy-to-read display
- 2 vials enable use as a spirit level
- More carrying comfort and safety due to shoulder bag

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>108-9030</td>
<td>1+</td>
</tr>
<tr>
<td></td>
<td>108-9031</td>
<td>5+</td>
</tr>
<tr>
<td></td>
<td>108-9032</td>
<td>10+</td>
</tr>
</tbody>
</table>

Detectors

GMS 120 Professional Multi-detector

- Pinpoint indication of the object’s centre with the Centre Finder scale
- Better visibility of the result due to illuminated display
- Marking hole with LED luminous ring
- Three detection modes for different applications: drywall mode, metal mode, mode for live cables

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>186-9031</td>
<td>1+</td>
</tr>
</tbody>
</table>

Mitutoyo

- High precision longitudinal and traverse vials make it possible to check or level surfaces
- Incorporates zero adjustment levels
- Vee slot in base

<table>
<thead>
<tr>
<th>Size</th>
<th>Sensitivity</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>250mm</td>
<td>0.02mm/inch</td>
<td>321-6410</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sensitivity</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.02mm/inch</td>
<td>321-6410</td>
</tr>
</tbody>
</table>

SAAME

- Plastic version: Ideal where a weatherproof level is required.
- Metal version: Ideal for use on indoor equipment where a high level of finish/presentation is required

<table>
<thead>
<tr>
<th>Length</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot;</td>
<td>135-3656</td>
<td>1+</td>
</tr>
<tr>
<td>36&quot;</td>
<td>135-3657</td>
<td>5+</td>
</tr>
<tr>
<td>48&quot;</td>
<td>135-3658</td>
<td>10+</td>
</tr>
<tr>
<td>72&quot;</td>
<td>135-3659</td>
<td>20+</td>
</tr>
</tbody>
</table>

Farnell.com element14.com
**Rules**

**Stainless Steel Rulers**
- Satin finish stainless steel rulers in 3 sizes
- Conversion chart on reverse

<table>
<thead>
<tr>
<th>Length</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm (6”)</td>
<td>144-7504</td>
<td>1+</td>
</tr>
<tr>
<td>300mm (12”)</td>
<td>144-7505</td>
<td>5+</td>
</tr>
<tr>
<td>600mm (24”)</td>
<td>144-7506</td>
<td>10+</td>
</tr>
<tr>
<td>750mm (30”)</td>
<td>144-7507</td>
<td>20+</td>
</tr>
<tr>
<td>1m (39”)</td>
<td>144-7508</td>
<td>50+</td>
</tr>
</tbody>
</table>

**Imperial Steel Rules**
Two sides - four edges. Subdivided inches in 16ths, 32nds, 64ths, 10ths, 20ths, 50ths, 100ths. One side, mm, 0.5mm, figured every 10mm in mm other side. One round end. Rustless. SR patterns are supplied with an easy to read anti-glare finish.

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>6, 12 and 24”</td>
<td>19mm</td>
<td>6482917/432235</td>
</tr>
<tr>
<td>3m/10ft</td>
<td>19mm</td>
<td>485297</td>
</tr>
<tr>
<td>5m/16ft</td>
<td>19mm</td>
<td>223060</td>
</tr>
<tr>
<td>8m/26ft</td>
<td>25mm</td>
<td>136-7035</td>
</tr>
</tbody>
</table>

**Magnetic Square End Rules**

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm</td>
<td>19mm</td>
<td>1+</td>
</tr>
<tr>
<td>300mm</td>
<td>25mm</td>
<td>5+</td>
</tr>
<tr>
<td>600mm</td>
<td>12.5</td>
<td>10+</td>
</tr>
<tr>
<td>300mm</td>
<td>12.5</td>
<td>15+</td>
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</table>

**Magnetic Rules**
6, 12 and 24” lengths

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm</td>
<td>19mm</td>
<td>6482917/432235</td>
</tr>
<tr>
<td>300mm</td>
<td>25mm</td>
<td>485297</td>
</tr>
<tr>
<td>600mm</td>
<td>12.5</td>
<td>223060</td>
</tr>
</tbody>
</table>

**Folding Ruler**

**Longlife Plus and Longlife**
- Glass fibre reinforced
- Scratch, weather and chemical resistant
- Patented, play free, wear resistant and maintenance free joint with steel spring pin for constant tension
- Useful 90° snap-in position
- Deep embossed black scale in 1mm increments. Every 10 cm is marked in red

**Tape Measures**

**Hi-Vis Tape Measures**
- Tape measures in high visibility plastic housing
- Thumb operated blade lock
- Belt clip and wrist strap

**Hi-Vis Measuring Tape**
These tapes feature a case made from durable ABS plastic contoured to fit comfortably in your hand. The hi-vis colour makes locating the product easy. Features include: Unique slide lock for easy control, belt clip, re-inked end-hook which is double riveted on the 3M version and triple riveted on the 5M and 8M versions.

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Colour</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>3m/10ft</td>
<td>13mm</td>
<td>Yellow</td>
<td>136-7033</td>
</tr>
<tr>
<td>5m/16ft</td>
<td>19mm</td>
<td>Orange</td>
<td>136-7034</td>
</tr>
<tr>
<td>8m/26ft</td>
<td>25mm</td>
<td>Green</td>
<td>136-7035</td>
</tr>
</tbody>
</table>

**ABS Tape Measures**
- ABS cases and steel inserts
- Metric and Imperial markings
- Suitable for internal and external measurements
- Supplied with belt clip

<table>
<thead>
<tr>
<th>Length</th>
<th>Blade Width</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>5m/16ft</td>
<td>19mm</td>
<td>313-3394</td>
</tr>
</tbody>
</table>

**GEL-Grip Tape Measures**
Developed specifically for professional tradesmen, the C.K Gel-grip tape encompasses the very latest in tape innovation and features:
- GEL-grip jacket - exceptional comfort with outstanding damage protection
- Specially designed end hook - grips on top bottom and side
- Double sided markings - for regular, overhead and
Tools and Maintenance

60

Tools - Measurement & Inspection

INTELLIGENT ONLINE BUYING
SYSTEM PROVIDING

Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company’s needs.

farnell.com/ibuy

vertical measuring. EC Class II - greater measuring accuracy.

- Triple riveted hook - prevents blade and hook damage on rewind.
- Nylon/TM coated blade - superior abrasion resistance and durability
- 2 lengths available - 5m/16ft and 7.5m/25ft
- 5m/16ft are available in 3 different colours

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>m5/16ft</td>
<td>mm19</td>
<td>182-4320</td>
</tr>
<tr>
<td>5m/16ft</td>
<td>19mm</td>
<td>182-4321</td>
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<tr>
<td>5m/26ft</td>
<td>19mm</td>
<td>182-4322</td>
</tr>
<tr>
<td>7.5m/26ft</td>
<td>25mm</td>
<td>182-4323</td>
</tr>
</tbody>
</table>

Tape Measure, MicroPowerlock 5M/16”

- Versatile wide blades
- Mylar™ polyester film extends life of entire blade
- High-impact, ABS case with rubber over mold withstand rugged conditions
- Stronger spring ensures extra-long life and smooth blade recoil
- Riveted, corrosion-resistant hook moves to allow for accurate inside/outside measurements
- easy-to-read, high-contrast blade for all light conditions
- Top-forward blade lock designed for easy locking and unlocking

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>33-553</td>
<td>169-684</td>
</tr>
</tbody>
</table>

8 Metre Powerlock Tape with Blade Armor

The first 150mm/6in of the tape blade is reinforced with blade armor for added strength and durability. Entire blade coated with mylar polyester for durability. Durable chrome case.

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>m5/16ft</td>
<td>mm19</td>
<td>182-4320</td>
</tr>
<tr>
<td>5m/16ft</td>
<td>19mm</td>
<td>182-4321</td>
</tr>
<tr>
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<td>19mm</td>
<td>182-4322</td>
</tr>
<tr>
<td>7.5m/26ft</td>
<td>25mm</td>
<td>182-4323</td>
</tr>
</tbody>
</table>

Counter Measuring Wheel

Durable traditional counter measuring wheel for best value.

- Gear driven counter with tough plastic housing.
- Heavy duty metal folding handle and rubber hand grip.
- Folding wheel mount.
- Diecast aluminum wheel, wear resistant rubber tread.
- Folding kick stand.

<table>
<thead>
<tr>
<th>Technical Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Range</td>
</tr>
<tr>
<td>Wheel Diameter</td>
</tr>
<tr>
<td>Working Environment</td>
</tr>
<tr>
<td>Working Accuracy</td>
</tr>
<tr>
<td>Units Of Measurement</td>
</tr>
<tr>
<td>Wheel Mount</td>
</tr>
<tr>
<td>Build Standard</td>
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<tr>
<td>Warranty</td>
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<table>
<thead>
<tr>
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<th>Width</th>
<th>Order Code</th>
</tr>
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<tbody>
<tr>
<td>20</td>
<td>66</td>
<td>12.7</td>
</tr>
<tr>
<td>30</td>
<td>100</td>
<td>12.7</td>
</tr>
</tbody>
</table>

Mirrors

- Chrome finish telescopic shaft with pocket clip
- Extends from 125mm (5”) to 463mm (18”)
- Diameter: 32mm (1-1/4”)

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td>8</td>
<td>26</td>
<td>32</td>
</tr>
</tbody>
</table>

32mm Telescopic Inspection Mirror

<table>
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<td>32</td>
</tr>
<tr>
<td>8</td>
<td>26</td>
<td>32</td>
</tr>
</tbody>
</table>

Closed Frame

This measure has two colour graduations that are easy to read in all conditions. A high impact yellow ABS case with the handle folding for storage. Conforms to Class II accuracy.

<table>
<thead>
<tr>
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<th>Width</th>
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</tr>
</thead>
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<tr>
<td>20</td>
<td>66</td>
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</tr>
<tr>
<td>30</td>
<td>100</td>
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</tr>
</tbody>
</table>

Fatmax BladeArmor

Extra wide 1¼ inch blade for easier reading and 11 feet of stand-out, constructed with a 3m industrial thermostatic plastic coating for maximum durability and reduced breakage. Impact blade is mylar coated for long life and features a 3 rivet corrosion resistant end hook, which gives true zero reading and accurate inside and outside measurement. The end hook is also multifunctional allowing grip on side, top and bottom. Conforms to class II accuracy.

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<tr>
<td>8</td>
<td>26</td>
<td>32</td>
</tr>
</tbody>
</table>
## Mirrors - continued

### Inspection Mirror

- Chrome finish telescopic shaft
- Non slip cushion grip handle
- Extends from 350mm (14") to 750mm (30")
- Mirror size: 50mm (2") x 100mm (4")

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>144-7965</td>
<td></td>
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</tbody>
</table>

### Inspection Mirrors

- Inspection mirrors all with ball and socket joints to enable the mirror to be positioned at any angle

<table>
<thead>
<tr>
<th>Mirror Dia.</th>
<th>Min. Length</th>
<th>Extended Length</th>
<th>Handle Type</th>
<th>Order Code</th>
<th>Price Each</th>
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</thead>
<tbody>
<tr>
<td>57</td>
<td>340</td>
<td>780</td>
<td>Telescopic</td>
<td>312-7990</td>
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<tr>
<td>51</td>
<td>295</td>
<td>455</td>
<td>Telescopic</td>
<td>312-7989</td>
<td></td>
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<tr>
<td>32</td>
<td>178</td>
<td>495</td>
<td>Telescopic</td>
<td>312-7977</td>
<td></td>
</tr>
</tbody>
</table>

### Inspection Mirrors

- Inspection of components and mechanisms in awkward places

<table>
<thead>
<tr>
<th>Order Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>312-7990</td>
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</tr>
<tr>
<td>312-7989</td>
<td></td>
</tr>
<tr>
<td>312-7977</td>
<td></td>
</tr>
</tbody>
</table>

### Insulated Dental Mirror

- Fully insulated handle and head
- Allows safe inspection of inaccessible areas of equipment carrying low voltages
- Overall length 170mm

### Eye Magnifiers

- Inspection eye magnifiers x10 magnification

<table>
<thead>
<tr>
<th>Order Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>234125</td>
<td></td>
</tr>
</tbody>
</table>

### Eye Loupe, x 10 Magnification.

- Illuminated LED Eye Loupe
- Magnification X10
- Adjustable bright LED light with ON/OFF switch
- Black finish

### 2.8x Eyeglass Magnifier

- Ideal for precision and miniature work
- Reduces eyestrain
- Black plastic body with glass lens
- Focal Length: 3/16"
- Magnification: 2.8x

### Inspection Mirror and Pick Up Set

- Illuminated inspection mirror and magnetic pick-up set designed for viewing inaccessible and poorly lit areas
- Bright LED illumination
- 3 viewing mirrors with a threaded shaft and flat glass mirror: 1 x 14mm, 1 x 23mm and 1 x 30mm
- Magnetic pick up head with 12mm diameter magnet with max load of 250g
- Anodised handle
- Rubber coated illumination switch

### Eye Magnifiers

- Inspection eye magnifiers x 10 magnification

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</tr>
</thead>
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### Inspection Mirrors

- Inspection mirrors all with ball and socket joints to enable the mirror to be positioned at any angle

### Inspection Mirrors

- Inspection of components and mechanisms in awkward places

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<td>312-7989</td>
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- Black plastic body with glass lens
- Focal Length: 3/16"
- Magnification: 2.8x

### FREE GLOBAL LEGISLATION SUPPORT

RoHS, REACH, WEEE, ErP, Batteries Directive - latest updates, free white papers and live online Q&A at element14.com/legislation
Eyeglasses

- Quality eyeglasses with black plastic frames and glass lenses
- Ideal for detailed work or inspection

Magnifiers

- plastic housing
- lenses ≥ 24 mm
- exceptional quality

SAAME

Hand Held Magnifier x 5 Magnification

- Robust round head hand held magnifier with 5x mag. aspheric lens
- Lens size: 70mm diameter

Folding Pocket Magnifier

- Suitable for visual inspection of:
  - Circuit boards, photographs, print line up and surface scratching etc
  - Folds flat for convenient carrying in pocket
  - Magnification approx 2.5x
  - Printed metric scale on base 1mm graduations
  - Supplied in plastic case
  - 2 Models available

Table Magnifier x 5 Magnification

- Free standing table magnifier
- 5X magnification glass lens
- Clear plastic integral stand allows light penetration
- Front aperture allows easy component positioning
- Lens size 70mm x 55mm
- Overall size:
  - Width 80mm, Depth 65mm, Height 75mm
- Weight: 275 grms.

Hand Held Magnifier 110 x 50 x 3 magnification

- Robust hand held magnifier with X3 mag. aspheric lens
- Lens size 100mm x 50mm
**Hand Held Magnifier 110 x 50 x 3 magnification - continued**

**SAAME - continued**

<table>
<thead>
<tr>
<th>Mfrs. List No.</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>59-620-003</td>
<td>171-3781</td>
<td></td>
</tr>
</tbody>
</table>

**Standard Round Magnifier**

- ABS plastic magnifier with a 75mm acrylic lens
- Main lens gives a x2 magnification with an inset giving a x4 magnification

**Improved Headband Magnifier Illuminated**

- Bright dual LED illumination with tilt and swivel LED adjustment
- Can be used whilst wearing glasses
- Can be tilted or lowered when required
- Suitable for assembly and inspection, hobbies, crafts and general reading etc
- Requires 2 x AAA batteries (not included)

Superior head band magnifier provides multi-coated acrylic lenses offering 4 magnification powers via a combination of fixed, flip up or monocle lenses (1.5, 3.0, 9.0 and 10.5).

**Deluxe LED Headband Magnifier Kit**

For professional, craft, hobby or DIY projects that demand close-up work.

- Detachable triple LED spotlight with magnetic base for separate use
- Fully adjustable tough plastic headband
- 4 precision ground interchangeable lenses:
  - Covering all focal lengths from semi-close-up to very close-up
  - Easily changed over by simple clip-in slots on the headband
  - Plastic protection case for lenses & cleaning cloth
  - Plastic infill for headband when LED used separately
  - Requires 3 x AAA 1.5v batteries 1712514 (not included)

Ideal for close-up precision work, leaving your hands free. This fully adjustable headband includes 4 interchangeable optical lenses and detachable triple LED spotlight with magnetic base.

**LED Magnifier**

Handheld magnifier complete with an 8 LED light.

- High quality 8 diopetre (3x) glass lens, 56mm diameter
- Ideal for PCB inspection and other precision tasks requiring 3x magnification
- With additional UV LED light for currency inspection
- Works with three 1.5V AAA batteries (not included)

**Illuminated Magnifier x 7 Magnification**

- Robust hand held magnifier with x7 magn. aspheric lens
- Lens size 65mm dia.
- LED Illumination switched on by rotating handle
- Powered by 2 x AAA 1.5v batteries (not supplied)

**Illuminated Magnifier x 3 Magnification**

- Robust hand held magnifier with x3 magn. aspheric lens
- Lens size 65mm dia.
- LED Illumination switched on by rotating handle
- Powered by 2 x AAA 1.5v batteries (not supplied)

**Illuminated Magnifier x 8 Magnification**

- Robust handheld magnifier with x8 magn. aspheric lens
- Lens size 45mm dia.
- LED Illumination switched on by rotating handle
- Powered by 2 x AAA 1.5v batteries (not supplied)

Magnification Working Distance

<table>
<thead>
<tr>
<th>Magnification</th>
<th>Working Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2 x</td>
<td>520 - 620 mm (20 - 24&quot;)</td>
</tr>
<tr>
<td>1.8 x</td>
<td>230 - 320mm (9 - 12&quot;)</td>
</tr>
<tr>
<td>2.5 x</td>
<td>150 - 250mm (5 - 10&quot;)</td>
</tr>
<tr>
<td>3.5 x</td>
<td>80 - 120mm (3 - 5&quot;)</td>
</tr>
</tbody>
</table>

**PCB Inspection Magnifiers**

- Integral metric/imperial graticule for direct measurement of the object
- Acrylic lens and body
- Base cover incorporates 35mm film negative and 35mm slide viewing apertures

<table>
<thead>
<tr>
<th>Type</th>
<th>Lens Dia.</th>
<th>Base Diaph. (Angled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5X</td>
<td>4mm/24mm</td>
<td>24mm 74mm 48 - 60mm</td>
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<tr>
<td>5X</td>
<td>24mm</td>
<td>74mm 67 - 80mm</td>
</tr>
<tr>
<td>5X</td>
<td>56g</td>
<td>56g</td>
</tr>
</tbody>
</table>

**Troubleshooting Tips**
Chat online to one of our technical engineers at farnell.com
Pocket Illuminated Microscopes

Pocket illuminated microscopes available in x50 or x75 magnification.

- Measuring scale included
- Rubber eye cup
- Focusing ring
- Acrylic object surround
- Side mounted mini torch (batteries not included)

<table>
<thead>
<tr>
<th>List No.</th>
<th>Magnification</th>
<th>Measuring Scale</th>
<th>Measuring Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-00050</td>
<td>X50 1.5x</td>
<td>X75 1.0 0.01</td>
<td></td>
</tr>
<tr>
<td>59-700-075</td>
<td>X50 1.5x</td>
<td>X75 1.0 0.01</td>
<td></td>
</tr>
<tr>
<td>59-700-050</td>
<td>X50 1.5x</td>
<td>X75 1.0 0.01</td>
<td></td>
</tr>
</tbody>
</table>

Stereo Long Reach Microscope

Ideal for viewing the surface of items that will not fit onto a conventional microscope plate.

- Uses two standard 1.5 V batteries (not included)
- A must for inspection of PC boards and miniature parts

<table>
<thead>
<tr>
<th>List No.</th>
<th>Magnification</th>
<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>59-020-100</td>
<td>X50 1.5x</td>
<td>722-2324</td>
<td>1+ 5+ 10+</td>
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<tr>
<td>59-700-075</td>
<td>X50 1.5x</td>
<td>210-2052</td>
<td>1+ 5+ 10+</td>
</tr>
<tr>
<td>59-700-050</td>
<td>X50 1.5x</td>
<td>210-2053</td>
<td>1+ 5+ 10+</td>
</tr>
</tbody>
</table>

Microscope 30X

Give unparalleled sharp and brilliant vision with wide field of view with 30X magnification.

- Uses two standard 1.5 V batteries (not included)
- A must for inspection of PC boards and miniature parts

<table>
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<tr>
<th>List No.</th>
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<th>Order Code</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>334128</td>
<td>X30 2.5-100x</td>
<td>334-0977</td>
<td></td>
</tr>
</tbody>
</table>

USB Microscope

Digital microscope with image capture facility.

- Digital microscope with image capture facility
- Manual focus range from 5mm to 45mm
- 25X - 200X magnification
- 4x white LED provide illumination in any conditions
- In-line brightness control
- Software (supplied) shows live feed on your monitor/book
- TWAIN compatible
- Mounting stand has fixing holes to secure microscope in place
- USB interface with 1.4m cable
- Supports Win 2000/XP/Vista/7
- Dimensions (hWd): 33x33x112mm
- Contents: Microscope, stand, software and user guide.

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<tbody>
<tr>
<td>P390276</td>
<td>X50 25-200x</td>
<td>182-3360</td>
<td></td>
</tr>
</tbody>
</table>

Pocket Microscope x 40 Magnification

- Magnification: 40X
- Construction:
  - Main body: aluminium, silver anodised
- Eyepiece: black plastic with integral pocket clip
- Focus stop: clear acrylic for light penetration
- Overall length: 120mm x 13mm diameter
- Weight: 20 grams.

<table>
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</thead>
<tbody>
<tr>
<td>59-028-640</td>
<td>X40</td>
<td>171-3775</td>
<td></td>
</tr>
</tbody>
</table>

Illuminated Mini Microscope x 40, Scale

- 40x magnification
- Blue filtered illumination
- Adjustable focus
- Graduated scale 4mm wide
- Overall height: 125mm
- Power: 2 x 1.5V AAA batteries (not supplied)
- Lamp: 2.2V 2.5A
- Colour: Black

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</thead>
<tbody>
<tr>
<td>59-675-040</td>
<td>X40</td>
<td>171-3790</td>
<td></td>
</tr>
</tbody>
</table>

Optical Loupe with Measuring Scale

- Provides 7x magnification, Complete with built in focusing ring
- Supplied with No 2 combination reticule:
  - Metric: Small Circles 0.1mm to 1.0mm in 0.1mm steps
- Supplied in a fitted box

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<tr>
<td>59-660-002</td>
<td>X40</td>
<td>171-3766</td>
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</tr>
<tr>
<td>59-665-006</td>
<td>X40</td>
<td>171-3767</td>
<td></td>
</tr>
</tbody>
</table>

Pocket Magnifiers

- Handy instrument for localized magnification
- Ideal for use in the printing industry

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<td>59-665-006</td>
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Microscopes

Pocket Microscope x 40 Magnification

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Digital microscope with image capture facility.

- Digital microscope with image capture facility
- Manual focus range from 5mm to 45mm
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- 4x white LED provide illumination in any conditions
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Receive email updates with the exact status, due date and despatch information of all your back order items farnell.com
Digital Microscope

Professional Rack AM35B is also available as a spare parts in single packaging. All the following products are sold with professional rack AM35B or standard rack AMITA.

Digital Microscopes 7000 Series

Dino-Lite Premier 7000 Series digital microscopes complete with AM35B Professional stand. Suitable for variety of applications and environments including science, engineering work, detailed repair, assembly and quality control, electronic and mechanical industry, antiques and more.

Digital Microscopes 4000 Series

Dino-Lite Premier 4000 Series digital microscopes complete with Amita rack or AM35B Professional stand (AD4013ZTL-X). Suitable for variety of applications and environments including science, engineering work, detailed repair, assembly and quality control, electronic and mechanical industry, antiques and more.

Dino-Eye Digital Eyepieces

AM423X and AM7023

Features:
- High 5mp Pixel Resolution with Microtouch II Snapshot available for Windows users
- Polarized
- 8 White LEDs with On/Off Control via Software
- 10x – 50x, 200x continuous magnification (AM7013MZT-X) or 400 x (AM7013MZT4-X)
- Up to 30FPS, 15FPS at 1.3mp
- USB 2.0, as well as compatible with Windows 2000/XP, Vista, 7 and Mac X computers (10.4 or further release)

Digital Microscope with Rack AM35B

Studied and designed for a professional use, Dino-Lite is very compact microscope product range which allows the users all high standard shootings (pictures and videos) even in real time and has a zoom feature that may magnify up to 200X. Measurements features such as lines, angles, diameters and radius, calibration as well are available.

Microscope Weight: 95 g.
Dimensions: 105 mm (H) x 32 mm (D)
Microscope Weight: 95 g.
Total weight with rack AM35B: 1.8 Kg.

Professional Rack AM35B

Studied and designed for a professional use, Dino-Lite is very compact microscope product range which allows the users all high standard shootings (pictures and videos) even in real time and has a zoom feature that may magnify up to 200X. Measurements features such as lines, angles, diameters and radius, calibration as well are available.

Microscope Weight: 95 g.
Dimensions: 105 mm (H) x 32 mm (D)
Microscope Weight: 95 g.
Total weight with rack AM35B: 1.8 Kg.

Digital Microscope

DINO-LITE

Tools and Maintenance

Dino-Lite 413MTL-Y is a very compact microscope product which allows the users all high standard shootings (pictures and videos) even in real time and has a zoom feature. Measurements features such as lines, angles, diameters and radius, calibration as well are available.

Microscope Weight: 95 g.
Dimensions: 105 mm (H) x 32 mm (D)
Microscope Weight: 95 g.
Total weight with rack AM35B: 1.8 Kg.

Digital Microscope with Rack AM35B

Studied and designed for a professional use, Dino-Lite is very compact microscope product range which allows the users all high standard shootings (pictures and videos) even in real time and has a zoom feature that may magnify up to 200X. Measurements features such as lines, angles, diameters and radius, calibration as well are available.

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Microscope Weight: 95 g.
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Studied and designed for a professional use, Dino-Lite is very compact microscope product range which allows the users all high standard shootings (pictures and videos) even in real time and has a zoom feature that may magnify up to 200X. Measurements features such as lines, angles, diameters and radius, calibration as well are available.

Microscope Weight: 95 g.
Dimensions: 105 mm (H) x 32 mm (D)
Microscope Weight: 95 g.
Total weight with rack AM35B: 1.8 Kg.

Digital Microscope with Rack AM35B

Studied and designed for a professional use, Dino-Lite is very compact microscope product range which allows the users all high standard shootings (pictures and videos) even in real time and has a zoom feature that may magnify up to 200X. Measurements features such as lines, angles, diameters and radius, calibration as well are available.

Microscope Weight: 95 g.
Dimensions: 105 mm (H) x 32 mm (D)
Microscope Weight: 95 g.
Total weight with rack AM35B: 1.8 Kg.
Dino-Lite Premier 3000 Series digital microscopes complete with Amtra rack. Suitable for a variety of applications and environments including science, engineering work, detailed repair, assembly and quality control, electronic and mechanical industry, antiques and more.

- 640 x 480 pixel resolution
- 10x - 50x, 200x (Continuous magnification without switching lenses)
- 8 White built in LEDs (On/Off software controlled)
- Frame rate up to 30fps (AM3013T-X) and up to 60fps (AM3713TB-X)
- AM3013T-X has a great image result and is also a UVC solution where no driver is needed to function
- AM3713TB-X complete with Dino-Lite's stroboscope feature, perfect for taking pictures by reducing motion blur of moving or shaky objects whilst under magnification.
- USB 2.0 interface and Windows 2000/XP, Vista, 7 and MAC X (10.4 or further release) compatible.

Incident Light Digital Zoom Microscope Di-Li 2001

- Magnification: Optical zoom 20x - 120x
- Stand: Plain base, big microscope stage 270 x 240 mm
- Focusing: From both sides
- Support: Stable metal support, post length 300 mm
- Illuminator: Incident light, white, adjustable LED ring illuminator (48 LEDs), assembly on objective
- USB Audio Video Grabber for digitising analog signal sources.

Digital Zoom Microscope Di-Li 1000

- The Crosstable is useful for dissection, circuit board inspection, and other micro viewing situations, where controlled and defined movement is required.
- The fluorescent light ring provides shadow-free cold illumination for 1000 hours with long life bulbs. Our light system is designed to fit most brands of microscopes.

Recordable Inspection Camera kit

- Allows for easy surveying of small, hard-to-reach places
- Water-proof 1m shaft
- Video recording capability, supports up to 32GB micro SD card (128MB supplied)
- Supplied with 3 x accessories: hook, mirror and magnet
- Requires 4 x AA Batteries for the main unit

Wireless Inspection Camera with LCD Monitor

The water-proof Mini Camera with lighting LEDs allows easy visual inspection in hard-to-reach areas. Lightweight, handheld design. Enabling the person to locate diagnose and solve problems with the flexible extended tube and useful attachments.

Dino-Lite Premier 3000 Series

- USB Audio Video Grabber for digitising analog signal sources.
**Wireless Camera Inspection kit**

- Allows for easy visual inspections in hard to reach areas and even in total darkness and underwater.
- 2.5" Colour TFT-LCD wireless monitor with rechargeable Li-Ion battery.
- Camera with built-in LED light.
- Lightweight, handheld design.
- Ideal to use in the plumbing, electrical, automotive, construction industries.

Contents: Camera, LCD Monitor, power supply, 1m extended tube, 3 x accessories hook, mirror and magnet.

NB: Requires 4 x AA Batteries for the main unit.

**Technical Data**

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**Compact LED Magnifier Lamp**

- Compact, stylish LED magnifier lamp with table base.
- 90 White LED lights.
- Adjustable head allows for the lamp to be moved to suit your position.
- 3 Diopter + 12 Diopter.
- On/Off switch.
- Lens size: 4.25" x 6.85".
- Colour: White.
- Supply voltage: 220-240V ac.

- Price Each
- 1+ 3+

**Magnifying Lamps**

**Fluorescent Magnifier Lamp**

- Compact, stylish magnifier lamp with table base.
- Adjustable arm and head allows for the lamp to be moved to suit your position.
- Supplied with electronic ballast.
- 3 Diopter + 12 Diopter.
- Lens size: 4".
- White in colour.
- Light source: T4 12W circular fluorescent tube.
- Supply voltage: 220-240V ac.

- Price Each
- 1+ 3+

**LED Magnifier Lamp**

- Compact, stylish LED magnifier lamp with table base.
- Adjustable arm and head allows for the lamp to be moved to suit your position.
- Supplied with electronic ballast.
- 3 Diopter + 12 Diopter.
- Lens size: 4".
- White in colour.
- Supply voltage: 220-240V ac.

- Price Each
- 1+ 3+

**Magnifier Lamp**

- Compact, stylish magnifier lamp with table base.
- Adjustable head allows for the lamp to be moved to suit your position.
- Supplied with electronic ballast.
- 3 Diopter + 12 Diopter.
- Lens size: 4".
- White in colour.
- Supply voltage: 220-240V ac.
- Requires T5 22W Fluorescent lamp.

- Price Each
- 1+ 3+

**90 LED Magnifier Lamp**

- Compact, stylish magnifier lamp with table base.
- 90 White LED lights.
- Adjustable head allows for the lamp to be moved to suit your position.
- 3 Diopter + 12 Diopter.
- On/Off switch.
- Lens size: 4.25" x 6.85".
- Colour: White.
- Supply voltage: 220-240V ac.

- Price Each
- 1+ 3+
180 LED Magnifier Lamp
With Desk Clamp
- Long arm magnifier lamp with desk clamp
- 180 White LED lights
- Adjustable arm and head allows for the lamp to be moved to suit your position
- 3 Diopter
- Lens size: 7”
- Colour: White
- Supply voltage: 220-240V ac

LED Flexi Magnifier XR
UK and Euro Plug
- 8 Ultra-Bright, full spectrum Daylight™ 4W LED light, complete with extra resistant, large 7” lens. Available with UK or European plug.
- Crystal clear 7”/17.5cm XR lens™ (1.75X, 3 diopter)
- 18/46cm Coated flexible arm for optimal positioning and durability
- Swivel head-joint with convenient on-off switch on head
- Daylight™ LEDS make details and colors jump out making it perfect for close-up tasks combined with XR technology™ makes the lens 50% lighter and extra resistant
- Eco friendly which uses 90% less energy

11W Magnifying Lamp
Model: E21000-01
- Practical magnifying lamp with improved arm and head joint for greater durability
- Semi-rimless, prescription grade acrylic lens with removable lens cover
- Energy saving lamp reduces eye strain and glare
- Heavy-duty metal arm with internal safety springs
- Colour: White
- Supplied with table clamp and 2-pin Euro Plug

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11W Magnifying Lamp
Model: E21000-01
- Professional quality magnifying lamp with a modern slimline design
- ‘Quick Swap’ system enables the change of magnification in seconds
- Two lenses included (1.75x and 2.25x) for intricate work
- Energy saving tube reduces eye strain and glare
- Heavy-duty metal arm with internal safety springs
- Flicker-free electronic ballast
- Colour: White
- Supplied with table clamp and 2-pin Euro Plug

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22W Slimline Magnifying Lamp
Model: E22030-01
- Professional quality magnifying lamp with a modern slimline design
- ‘Quick Swap’ system enables the change of magnification in seconds
- Two lenses included (1.75x and 2.25x) for intricate work
- Energy saving tube reduces eye strain and glare
- Heavy-duty metal arm with internal safety springs
- Flicker-free electronic ballast
- Colour: White

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22W Slimline Magnifying Lamp
- Professional quality magnifying lamp with a modern slimline design
- ‘Quick Swap’ system enables the change of magnification in seconds
- Two lenses included (1.75x and 2.25x) for intricate work
- Energy saving tube reduces eye strain and glare
- Heavy-duty metal arm with internal safety springs
- Flicker-free electronic ballast
- Colour: White

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## Magnifying Lamps - continued

### 22W Slimline Magnifying Lamp - continued

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### Ultra Slim Magnifying Lamp

- Powerful 28w Daylight™ energy saving tube (150w equiv.)
- Unique crystal clear 17.5cm7” XR lens™ to see more of your work (1.75X, 3 diopter)
- The XR technology™ makes the lens 50% lighter and extra resistant
- No more wing nuts with the Free-Motion head-joint™ and the internal spring arm
- Flicker-free electronic ballast, work for longer in optimal comfort
- High quality metal arm for optimal flexibility and durability
- Quick Lens Swap System™, increase the magnification in seconds and without any tools.
- 2 additional higher magnification lenses available separately
- Solid lamp stem and sturdy metal clamp for tables and trolleys

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### Deluxe Magnifying Lamp

- Powerful 2x13w (26w) Daylight™ energy saving tubes (140w equiv.)
- Unique crystal clear 19x17.5cm7.5x7” XR lens™ to see more of your work (1.75X, 3 diopter)
- The XR technology™ makes the lens 50% lighter and extra resistant
- Two independent switches to allow even light or to create shadows
- Flicker-free electronic ballast, work for longer in optimal comfort
- No more wing nuts with the Free-Motion head-joint™ and the internal spring arms
- High quality metal arm for optimal flexibility and durability
- Clip-on lens system™, increase the magnification in seconds and without any tools.
- 2 additional higher magnification lenses available separately
- Solid lamp stem and sturdy metal clamp for tables and trolleys

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### Wave Plus Wide Angle Magnifier

- Robust heavy duty construction
- 3 dimensional neck joint for easy positioning
- Independently switched 2 x 7 watt tubes (supplied)
- 700mm spring balanced arm
- 3.5 diopter (187%) lens supplied - auxiliary 8D lens available
- Supplied with desk clamp, surface or wall mounting option available

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### Magnifique II Pro

- High frequency ballast for true flicker free operation
- 11 watt compact fluorescent tube and tube cover supplied
- 1040mm spring balanced arm
- Supplied with 3.5 diopter (187%) glass lens
- Supplied with desk clamp, surface or wall mounting option available

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Fluorescent Daylight
Compact Table Magnifier

Features:
- 12W circular energy saving tube (LC8093/T)
- Shadow free light with no heat emission
- Ergonomic design with table base and lens cap
- Quality 100mm (4") lens, 3 dioptre (1.75x magn.)
- Built-in close up lens 12 dioptre (4x magn.)
- Upright Height 15" (37.5cm) suitable for mobile use
- Cable length 1.5m

A self standing 12W daylight lamp with round glass lens and versatile swivel head, ideal for intricate work.

Tube Specification:
- Circular energy saving daylight tube, 12W
- Supply voltage: 230V
- Power rating: 12W
- Typical colour temperature: 6400K
- Average bulb life: 6000h

ESD Workstation Lamp

Suitable for use in EPA, Electrostatic Protected Areas (IEC 61340-5-1 and ANSI/ESD 20:20)
- Powerful 28w Daylight™ energy saving tube (150w equiv.)
- 17.5cm/7” precision optical white glass lens to see more of your work (1.75X, 3 diopter)
- New head joint to smoothly direct the light exactly where you need it
- Flicker-free electronic ballast, work for longer in optimal comfort
- High quality metal arm for optimal flexibility and durability

Features:
- Solid lamp stem and sturdy metal clamp for your workstation
- 4cm/1.5” precision optical white glass swing arm lens included (4.0X, 12 diopter)
- 13cm/5” precision optical white glass lens available separately (2.25X, 5 diopter)

Energy Saving CFL Portable Floodlight

Model: AEC-3500P
- Energy saving CFL worklight
- 36W energy saving lamp - equivalent to 300W halogen
- IP44 rated, suitable for outdoor use
- Ideal for industrial or home use
- Low heat emissions
- Aluminium housing
- Carry handle with ergonomic grip
- Adjustable clamping bracket
- Safety glass panel
- Low power consumption and long life
- Power supply: 230V 50Hz
- 1.8m H05RN-F 3X0.75mm² + 3 pin plug
- Dimensions (HxWxD): 270x212x170mm
- Weight: 2.04kg

ESD Ultra Slim Magnifying Lamp

Ergonomic and professional ESD safe magnifying lamp
- Suitable for use in EPA, Electrostatic Protected Areas (IEC 61340-5-1 and ANSI/ESD 20:20)
- High quality metal arm for optimal flexibility and durability
- Solid lamp stem and sturdy metal clamp for your workstation
- 4cm/1.5” precision optical white glass swing arm lens included (4.0X, 12 diopter)
- 13cm/5” precision optical white glass lens available separately (2.25X, 5 diopter)

Features:
- Powerful 28w Daylight™ energy saving tube (150w equiv.)
- 17.5cm/7” precision optical white glass lens to see more of your work (1.75X, 3 diopter)
- New head joint to smoothly direct the light exactly where you need it
- Flicker-free electronic ballast, work for longer in optimal comfort
- High quality metal arm for optimal flexibility and durability

Tools and Maintenance
**Mini-Maglite®**

**2 cell AAA**
- Pocket torch with key-ring hole in tail cap
- Supplied in presentation case with 2 AAA batteries and Pocket Clips

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+**

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**AA Cell 3W LED Torches**
- Projecting beam that focuses simply by rotating the head
- Balanced Optics™ provide a focusing, 3 watt LED optimized to produce a powerful beam
- Supplied with pocket belt holder and batteries

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+**

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**D Cell 3W LED Torches**
- Projecting beam that focuses simply by rotating the head
- Balanced Optics™ provide a focusing, 3 watt LED optimized to produce a powerful beam
- Batteries not supplied

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+**

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<td>3 x D Cell</td>
<td>129-4807</td>
<td>5+ 10+</td>
</tr>
</tbody>
</table>

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**AA Maglite® LED Upgrade Kit**
- An LED upgrade for any AA Maglite®
- Replaces conventional bulbs with the latest LED technology
- LED module extends battery life by up to 4 times
- Provides a brilliant white light
- 10 year LED life (100,000 hours burn time)
- Simply slots into the torch
- Available either on its own or with a handy push-button tail cap

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Code</th>
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<tbody>
<tr>
<td>LED Module</td>
<td>109-7700</td>
<td>5+</td>
</tr>
<tr>
<td>LED Module + Tail Cap</td>
<td>109-7699</td>
<td>5+</td>
</tr>
</tbody>
</table>

**C & D Maglite® LED Upgrade**
- Replaces incandescent bulb in C and D cell Maglite® torches
- Extends battery life up to 25 hours (longer depending on number of cells in torch)
- Pure bright white LED
- 100,000 hours LED life
- Shock resistant

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+**

<table>
<thead>
<tr>
<th>C &amp; D Maglite®</th>
<th>Order Code</th>
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<tbody>
<tr>
<td>LED Module</td>
<td>128-5089</td>
<td>4+</td>
</tr>
</tbody>
</table>

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**MityLite™ - Intrinsically Safe Torch**

**Hostile Environments**
- The smallest submersible torch in the Peli range. Ideal as a general utility pocket torch. Supplied with light bending accessory to facilitate inspection of those difficult to see areas. Massive 60,000 candela power output.
- Submersible to 150m
- ATEX Approved (Zone 2)
- Pre-focused Xenon beam
- Compact, just 12cm long
- One handed safety switch operation
- Complete with light bender and 2 AAA batteries
- Lifetime guarantee
- Available in black or high visibility neon yellow

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+ 25+**

<table>
<thead>
<tr>
<th>MityLite Black</th>
<th>Order Code</th>
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<tbody>
<tr>
<td>677-395</td>
<td>6+</td>
<td>12+</td>
</tr>
</tbody>
</table>

**Replacement Lamp Module**
- Replaces incandescent bulb in C and D cell Maglite® torche
- Simply slots into the torch
- Lifetime LED life (100,000 hours burn time)
- Pure bright white LED
- Available in black or high visibility neon yellow

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+ 25+**

<table>
<thead>
<tr>
<th>MityLite Neon Yellow</th>
<th>Order Code</th>
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</thead>
<tbody>
<tr>
<td>677-401</td>
<td>6+</td>
<td>12+</td>
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</table>

---

**StealthLite™ Torch**

**Hostile Environments**
- The Peli StealthLite is a rugged, all purpose, lightweight worklight. It features a switch locking mechanism to prevent accidental switching on and subsequent battery drainage. The pre-focused Xenon lamp produces a bright, calibrated 10,000 candlepower beam.
- One handed safety switch operation
- ATEX approved to Zone 2
- Pre-focused Xenon beam
- Watertight to 600 feet
- Shock mounted battery compartment
- Tough ABS body
- Uses 4 AA batteries (included)

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+ 25+**

<table>
<thead>
<tr>
<th>StealthLite Black</th>
<th>Order Code</th>
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<tbody>
<tr>
<td>677-449</td>
<td>6+</td>
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</table>

**StealthLite Yellow**
- The Peli StealthLite is a rugged, all purpose, lightweight worklight. It features a switch locking mechanism to prevent accidental switching on and subsequent battery drainage. The pre-focused Xenon lamp produces a bright, calibrated 10,000 candlepower beam.
- One handed safety switch operation
- ATEX approved to Zone 2
- Pre-focused Xenon beam
- Watertight to 600 feet
- Shock mounted battery compartment
- Tough ABS body
- Uses 4 AA batteries (included)

**Description**
- **Order Code**
- **Price Each**
  - **1+ 5+ 10+ 25+**

<table>
<thead>
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<th>StealthLite Yellow</th>
<th>Order Code</th>
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<tbody>
<tr>
<td>677-450</td>
<td>6+</td>
<td>12+</td>
</tr>
</tbody>
</table>
**LED Penlight**

**UK409**

- LED Penlight with micro push button switch and 2 detachable fibers (clear white and translucent red).
- 20 lumen white nichia LED
- Robust pocket clip
- Small, light and compact
- Concentrated light source
- Impact resistant up to 1m
- 2 x 1.5V AAA Alkaline batteries included
- 85g weight

**PS-H6**

- Battery Life: 2 hours
- Maximum Power: 100%
- Low Power: 10%
- Flood to spot focus control
- 5M reflective headband strips
- Red rear emergency light
- Thermostech cooling system
- Two stage dimming function
- Weight: 180g (including batteries)
- Size: 31mm x 163mm
- Battery Type: 2 x 1.5V AA size Duracell Alkaline batteries (included)
- Weight: 160g (including battery)
- DC-DC regulated circuit
- Water resistant

**Tactical LED Flashlight**

- LED Type: New Cree XP-C (Q2)
- 60 Lumens
- Battery Type: 1 x 1.5V AA size Duracell Alkaline battery (included)
- Battery life: Highly sophisticated electronics allows up to 24hrs continuous use
- Solid grade aluminium
- Tactical tail cap push button switch operation
- Size: 28mm x 104mm
- Weight: 160g (including battery)
- DC-DC regulated circuit
- Water resistant

**Torche 5 LED**

- LED Type: XC-P Cree White LED
- LED Focus Control: 1 x flood, 4 x spot
- 120 Lumens
- Dimming Control: 100% to 10% brightness
- Battery Type: 2 x 1.5V AA Duracell Alkaline Batteries (included)
- Size: 31mm x 163mm
- Weight: 180g (including batteries)
- Quick / SOS flashing capability
- Water resistant
- Tactical switch style operation
- Contoured hatch grip body

**LED Torch**

- LED Type: 160 Lumen Cree white LED
- LED Focus Control: 1 x flood and 4 x spot
- Dimming Control: 100% - 10% brightness
- Quick / SOS flashing capability
- Water resistant
- Tactical switch style operation

**LED Penlight**

- Battery Life: 1.5 hours
- ON 100% brightness
- 3.5 hours
- ON 10% brightness
- 9 hours
- SOS flashing

- LED Type: 2 x 1.5V AA size Duracell Alkaline batteries (included)
- Size: 31mm x 163mm
- Weight: 180g (with batteries)
- Nylon carry strap (included)

- 120 Lumens
- Impact resistant up to 1m
- 2 x 1.5V AAA Alkaline batteries included
- 85g weight

**Prosafe Hi-Viz Floating Lantern**

- PS-L1
  - High power 4.8v Krypton bulb
  - Hi-visibility yellow body colour
  - Tailored handle grip and moulded rubber micro switch
  - Chemical resistant
  - Requires 1 x 6V PRR86 Lantern Battery (not included)
  - Size 210 x 120mm
  - Weight 330g

The Beamaster PS-L1 lantern is perfect for all outdoor situations. Floats beam upright in water with a beamaster lens for ultimate beam penetration. Lantern also includes industrial strength copolymer body for high impact use.

**Standard Lantern**

- PS-FL3
  - 9 hours SOS flashing
  - 3.5 hours ON 10% brightness
  - 1.5 hours ON 100% brightness

- PS-L1
  - 9 hours SOS flashing
  - 3.5 hours ON 10% brightness
  - 1.5 hours ON 100% brightness

**LED Torch with Ultraviolet**

- NightSearcher
  - 1W high powered UV LED
  - 2 x CR123A batteries (not included)
  - Running time: 3.5 hours / 6 hours
  - Wavelength: 360 - 365nm
  - Designed for forensic applications
  - Durable aluminum casing
  - Water resistant
  - Tail cap tactical switch
  - Length: 132mm
  - Head diameter: 33.5mm
  - Weight: 144g (inc. batteries)

**TROUBLESHOOTING TIPS**

Chat online to one of our technical engineers at farnell.com
Tools and Maintenance

2610 LED Headtorch

- Hands-free light
- Can be helmet mounted using rubber strap (included)
- LED lamp for close-up light and long battery life
- Halogen lamp gives powerful beam
- Balanced battery compartment stored at the rear of the head
- 4xAA batteries (supplied)

6 LED Headlight

- Compact, lightweight headlight with 6 LEDs
- Bright white and red LEDs - 8,000 hours life
- Four lighting options:
  - 2 focused white LEDs for spot projection
  - 2 wider positioned white LEDs for flood beam
  - 4 white LED combined option for maximum light output
  - 2 red LEDs for night vision
- LED life: 100,000 hours
- Battery life: 100 hours
- Max brightness: 2000 lumens
- Battery burn time: 10 hours

Professional Rechargeable Searchlight

Panther

- Extremely tough and powerful handlamp
- Large 120mm parabolic reflector gives over 1 million candle power and a 1 mile beam
- Supplied complete with mains charger, detachable shoulder strap
- Special heat treated metal reflector with Borosilicate lens (pyrex)
- Built in protection rim
- Rechargeable 12V x 7A/H sealed lead acid battery
- LED indication to show when battery is charged
- Operates for over 4 hours on 20W Halogen, or 1.5 hours on 50W Xenon
- 12 hour recharge time

Order Code: 422-8595

1W LED Head Torches

- High intensity long life LEDs (1W - 15 times brighter than standard LEDs)
- Ultra low power consumption
- Adjustable through 90° to focus on work area
- 4 mode operation
- Shock-resistant rubber
- Rubber seal for maximum water-resistance
- Fully sealed switch
- Supplied with adjustable head strap with padded front section and 3 x AA batteries
- Rechargeable version supplied with padded front section, battery pack and mains charger with UK plug

Order Code: 101-3172

2690 HeadsUp™ LED Zone 0

- Ex Code: ATEX Ex II 1D/G Ex ia IIC T4, Ex ia II 2G IP65 T65*
- Easy Twist switch operation
- Compact, lightweight headlamp
- Rubber strap and cloth included
- Tested Lumen Value: 60
- Power: 1 Watt
- 3 x AAA batteries (included)
- 10 hours battery burn time
- Length: 71mm

Order Code: 175-3235

4 LED Headlamp

- Hands-free light
- Can be helmet mounted using rubber strap (included)
- LED lamp for close-up light and long battery life
- Halogen lamp gives powerful beam
- Balanced battery compartment stored at the rear of the head
- 4xAA batteries (supplied)

Order Code: 175-3235

Halogen + LED Headlamps

- Hands-free light
- Can be helmet mounted using rubber strap (included)
- LED lamp for close-up light and long battery life
- Halogen lamp gives powerful beam
- Balanced battery compartment stored at the rear of the head
- 4xAA batteries (supplied)

Order Code: 175-3235
A range of headlamps that gives you a choice of 2 light sources: the LEDs offer long-lasting light while the alternative halogen lamp offers a powerful 10,000 candela beam power. The headlamps direct the light exactly where it is needed.

**DUO - Halogen Headlamp with 5 LEDs**
- Dual light source, halogen bulb for a powerful long-range beam and a 5 LED unit for energy-efficient proximity lighting
- Halogen light source has adjustable beam width and range of 100m
- Beam adjustment control and on/off switch are situated on opposite sides of the lighting unit for ease of use
- Ergonomic headbands in adjustable synthetic elastomeric material
- On/Off switch can be locked to avoid accidental switching on
- Supplied with spare halogen bulb
- Battery mounting on headband
- Stainless steel contacts
- On/Off switch can be locked to avoid accidental switching on
- Ergonomic headband in adjustable synthetic elasticized material
- IP54 rating
- Pivoting head protected by a rubber shroud
- Robust anti-static thermoplastic enclosure
- Three levels of brightness, switchable between 3, 5 and 7 high intensity LEDs
- Ex Code II 1 G Ex ia IIC T4/T3
- Battery mounting on headband
- Stainless steel contacts
- On/Off switch can be locked to avoid accidental switching on
- Ergonomic headband in adjustable synthetic elasticized material
- IP54 rating
- Pivoting head protected by a rubber shroud
- Robust anti-static thermoplastic enclosure
- Three levels of brightness, switchable between 3, 5 and 7 high intensity LEDs

**PS-H3**
- Flood to spot focus control
- 3M reflective headband strips
- Rubberised non-slip headbands
- Red SOS emergency flash
- Water resistant
- Green signalling for map reading
- Single stage dimming function
- Optic lens and reflector
- White emergency flash function
- LED Type: Cree® 180 Lumens
- Battery Type: 3 x 1.5V AA Duracell Alkaline battery (included)
- Weight: 118g (including batteries)

**PS-H5**
- Flood to spot focus control
- 3M reflective headband strips
- Rubberised non-slip headbands
- Red rear battery pack light
- SOS emergency flash function
- LED Type: Cree® 180 Lumens
- Battery Type: 3 x 1.5V AA Duracell Alkaline battery (included)
- Weight: 265g (including batteries)

**PS-H6**
- Flood to spot focus control
- 3M reflective headband strips
- Rubberised non-slip headbands
- Red rear emergency light
- Thermocontrol cooling system
- Two stage dimming function
- Optical reflector and lens
- SOS emergency flash function
- LED Type: Luxeon Rebel® 350 Lumens
- Battery Type: 1 x 4.8V 2200mAh Ni-MH rechargeable battery (included)
- Weight: 352g (including battery)

**LEd Head Torch**
- Compact LED head torch
- 12x high intensity LEDs (100,000 hours average life)
- 4 mode operation - 4 LED, 8 LED, 12 LED, 12 LED Flashing
- Adjustable head strap with padded front section for comfort
- Adjustable position head for work area focus
- Torch head dimensions (WhxD): 70 x 55 x 60mm
- Requires 3 x AAA batteries (not supplied - part number 1712514)

**LED Head Torch**
- Battery Life: 10 hours Maximum Power
- 24 hours Low Power
- Requires 3 x AAA batteries (not supplied - part number 1712514)
- Price Each

---

**Price Each**

- **Description**
- **Order Code**
- **Price Each**
**Torch - Hazardous**

**MityLite Zone 1**

The MityLite zone 1 is the intrinsically safe version of the popular MityLite torch. An ideal pocket torch for use in hazardous areas, it is compact, submersible and corrosion-proof.

- Submersible to 150 metres
- Compact, just 12cm long
- Pre-focused Xenon beam
- Unbreakable Xenoy body
- 2x AAA batteries (included)
- Ex II 2 G, Ex ia IIC T5

**LED Zone 0 Intrinsically Safe Torch**

- Suitable for all hazardous areas
- 130 hours battery life
- 10,000 hours lamp life
- Tiny, just 6.3cm long
- Ideal size for pocket or clip to clothing
- Water resistant
- Supplied with batteries and safety lanyard
- Fully certified to ATEX Zone 0, Ex II 1 G, Ex ia IIC T4

The L1 Zone 0 LED is a tiny “go anywhere” torch, certified for all hazardous area uses, including areas where an explosive atmosphere will be present continuously (zone 0). It offers an amazing 130 hours of battery life and 10,000 hours of lamp life. The bright concentrated beam is ideal where close up light is needed. This torch has an anti-static coating, is waterproof and corrosion-proof.

**StealthLite Zone 1**

A “go anywhere” torch suitable for all types of activities and industrial uses. The ergonomic design of the torch sits very comfortably in the hand. Suitable for use in Zone 1, where hazardous atmosphere will be present some of the time (e.g. for operational reasons). Supplied complete with lanyard and switch locking mechanism to prevent accidental switching on and subsequent battery drainage. T4 temperature rating and anti-static coating.

- One handed safety switch operation
- 10,000 candlepower beam
- Shock mounted battery compartment
- Tough ABS body
- Uses 4x AA batteries
- Ex II 2 G, Ex ia IIC T4

**Micro & Mini ATEX Torches - Zone 0 / Zone 1**

A range of ATEX 94/9/EC Directive compliant mini safety torches, providing impressive performance in a compact size.

- ATEX approved for use in potentially explosive atmospheres
- Option of Xenon, LED and 1W Luxeon LED versions
- Lightweight ergonomically designed
- Constructed from impact and chemical resistant thermoplastic resin
- Polycarbonate lens, set back from lens ring to minimise risk of damage
- Rear push-button switch is shrouded to guard against accidental operation
- IP67 rating, sealed against water and dust ingress
- All models feature a lanyard hole and pocket clip and are supplied with batteries (M-10 Micro Torch is also supplied with a neck cord)

**Mitsubishi Zone 0**

- Order Code: 181-3071
- M-10 Zone 0 - 3 x LED
- M-40 Zone 0 - 3 x LED
- M-60 Zone 0 - 1 x 1W LED

**Mitsubishi Zone 1**

- Order Code: TR-40
- TR-40+ 1 x 3W primary cells
- TR-45 1 x 3W primary cells

**Mini Torches**

- Order Code: 129-4982
- 129-4983
- 129-4984
- 129-4985

**Accessories**

- Order Code: TR-40
- TR-40+ 4 x 1.5V AA
- TR-45 4 x 1.5V AA

**ATEX LED Torch**

- ATEX approved for explosive gas and dust atmospheres
- LED light source ‘fitted for life’, no bulb replacement required
- High output focussed spot beam with wide angle fringe of light
- Over 7.5 hours high power output from 4 x AA primary cells
- Compact and lightweight torch design
- Low battery indicator fitted on TR-40+ model
- Zone 0 version available
- All models with Group I Mining Approval

**Micro Torches**

- Order Code: 019-3072
- 129-4982
- 129-4986

**Price Each**

- Price Each
- Price Each
- Price Each

**LED Lamp Life**

- 10,000 hours lamp life
- 130 hours battery life

**Light Source**

- High Power LED
- Xenon Bulb

**Battery Type**

- 2x AAA cells
- 2x 1.5V AA Batteries
- 3 x LED
- 3 x LED
- 3 x LED

**Certificate**

- Pelican BAS 06.0089
- ATEX0084 IECEx BAS 06.0023
- ATEX0084 IECEx BAS 06.0023

**Ambient Temperature**

- -20°C to +50°C
- -20°C to +50°C
- -20°C to +50°C

**Area of Classification**

- Zones 0, 1, 2
- Zones 0, 1, 2
- Zones 0, 1, 2

**Temperature Class**

- T4
- T4
- T4

**Apparatus Standard**

- EN60079-0, EN50020 / IEC60070-0, IEC60079-11
- EN60079-0, EN50020 / IEC60079-11
- EN60079-0, EN50020 / IEC60079-11

**Ex Code**

- II 1 G Ex ia IIC T4 (Ta=50°C IP67)
- II 1 G Ex ia IIC T4 (Ta=50°C IP67)
- II 1 G Ex ia IIC T4 (Ta=50°C IP67)
Rechargeable LED ATEX Torches - Zone 0

A range of ATEX 94/9/EC Directive compliant safety torches with worldwide mains and vehicle charging options.

- ATEX approved for explosive gas and dust atmospheres
- High power 3W LED for outstanding light output
- Easy operation even with gloved hands
- Supplied with detachable shoulder strap and battery pack
- Robust anti-static thermoplastic construction
- Increased light output from halogen bulb
- Enhanced rechargeable battery giving up to 7 hours duration, incorporating electronic protection
- Torch supplied complete with battery, mains/vehicle charger, mains adapters (worldwide selection), wrist strap and clip ring

Zone Type
<table>
<thead>
<tr>
<th>Mfrs List No.</th>
<th>Order Code</th>
<th>Description</th>
<th>Price Each</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Zone 0 Torch</td>
<td>129-4960</td>
</tr>
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</table>

ATEX Safety Rechargeable Handlamp

A cost effective solution for Ex applications where a handlamp is frequently required for long periods. This rechargeable handlamp is CE marked in compliance with the 94/9/EC Explosive Atmospheres (ATEX) directive, for use in a wide range of potentially explosive gases, vapours, mists and dusts. Supplied complete with a convenient removable shoulder strap.

Charger supplied separately

- ATEX explosive gas and dust approved
- Enhanced rechargeable battery giving up to 7 hours duration, incorporating electronic current limiting, deep discharge protection and standby power fail switch on
- Increased light output from halogen bulb
- Robust anti-static thermoplastic construction
- 6mm toughened glass lens
- Lloyd’s register marine type approved
- IP66 enclosure rated
- Supplied with detachable shoulder strap and battery pack

Ex Code
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Price Each

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<tr>
<td>181-3085</td>
<td>181-3085</td>
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</table>

ATEX and IECEx certified for use in Zone 1 hazardous areas

Ultra bright high power LED light

The Wolflite XT represents a step change in the technology used in hazardous area lighting, incorporating the latest LEDs and Li-Ion battery management extending the duration and performance of the product.

Wolflite XT-50 has a 200 lumen ‘fitted for life’ LED. This ‘entry-level’ model has a spot beam; battery level indication, fast charging, high power mode (3 hour duration) and ‘powersave’ (6 hour duration).

Wolflite XT-70 is a higher specification model with spot and flood beams, longer battery duration (6 hours full power / 12 hours on ‘powersave’ mode) and an integral stand for hands free beam direction.

Each of the models is available with a charger for either mains voltage 100-254VAC (XT-70H) or vehicle voltage 12-24VDC (XT-70L).

Mfrs List No. | Order Code | Description |
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Price Each

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<tr>
<td>181-3085</td>
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</tbody>
</table>

INTELLIGENT ONLINE BUYING SYSTEM PROVIDING

Complete cost control, reduced administration time, visibility of your spend, flexibility and personalised to your company’s needs. farnell.com/iBuy
NEW

NON-STOP OPERATION
SAME WEIGHT
33% MORE RUNTIME
AVAILABLE IN STORE FROM AUGUST

4.0 AH

To find out more please scan the QR code or visit www.DEWALT.com