## TECHNICAL SPECIFICATION:

<table>
<thead>
<tr>
<th>Model</th>
<th>DWL2000XY</th>
<th>DWL3000XY</th>
<th>DWL3500XY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range (Single Axis Mode)</td>
<td>0.00° to ± 90.00°</td>
<td>0.00° to ± 90.00°</td>
<td>0.00° to ± 20.00°</td>
</tr>
<tr>
<td>Measurement Range (Dual Axis Mode)</td>
<td>0.00° to ± 3.00°</td>
<td>0.00° to ± 15.00°</td>
<td>0.00° to ± 10.00°</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01° (175µm/M) (0.002 in/Ft)</td>
<td>0.01° (175µm/M) (0.002 in/Ft)</td>
<td>0.001° (18µm/M) (0.0002 in/Ft)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 0.02° at 0.00° ~ ± 2.00° (349 µm/m) (72 arcsec)</td>
<td>± 0.04° at other angles</td>
<td>± 0.01° at 0.00° ~ ± 0.05° (175µm/M) (6 arcsec)</td>
</tr>
<tr>
<td>Repeatability</td>
<td>± 0.01° (175µ/M) (0.002 in/Ft)</td>
<td>± 0.01° (175µ/M) (0.002 in/Ft)</td>
<td>± 0.01° (18µ/M) (0.0002 in/Ft)</td>
</tr>
<tr>
<td>Measurement Speed</td>
<td>≤ 3 Sec.</td>
<td>≤ 3 Sec.</td>
<td>≤ 5 Sec.</td>
</tr>
<tr>
<td>Vibrometer (Relative g)</td>
<td>-</td>
<td>1.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Magnet</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Display</td>
<td>Colour TFT LCD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Supply*</td>
<td>4 x AAA 1.5V Batteries / USB</td>
<td>PC ABS / Cast Iron</td>
<td>PC ABS / Cast Iron</td>
</tr>
<tr>
<td>Connectivity</td>
<td>USB 2.0 Cable (≤ 5 metre)</td>
<td>USB 2.0 Cable (≤ 5 metre)</td>
<td>Bluetooth Industrial Class 1 (≤ 30 metre) (Optional)</td>
</tr>
<tr>
<td>PC SYNC Software</td>
<td>Professional Edition (Optional)</td>
<td>Basic Edition (Included)</td>
<td>Basic Edition (Included)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10°C to +50°C (Calibrated for the entire temperature range)</td>
<td>-20°C to +60°C</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C to +60°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension (mm)</td>
<td>188 x 62 x 37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nett Weight (Approximate)</td>
<td>580 gram</td>
<td>1100 gram</td>
<td></td>
</tr>
<tr>
<td>User Self Calibration</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- Alternatives device power can be obtained from External USB Power Source

### Applications:

- Biomedical & Pharmaceutical
- CNC Machine Alignment
- CMS/Leveling (Metrology)
- Research Laboratory
- Semiconductor Production Machines
- Aerospace & Defence
- Railway & Transportation Systems

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- Digi-Pas® Group LOWREZ
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**ISO 14001:2004**
Cert No: SG04/00450

**ISO 9001:2008**
Cert No: SG00/000500

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**Products tested by SGS accredited body to comply with CE, FCC & RoHS, and traceable to ISO, NIST & DIN, and manufactured under SGS certified ISO quality standards:**

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**Advanced Digital MEMS Technology**

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- Digi-Pas® Japan
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- Digi-Pas® Germany

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**US Patent No.: US D692,328 S**

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**Innovative Digital MEMS Technology**

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**Manufacturer**

- Heckmann Präzisionstechnik GmbH

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**Representatives:**

- Tarax Technologies Ltd
- Tarax Technologies Ltd
- Tarax Technologies Ltd
- Tarax Technologies Ltd

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**User Manual:**

- Digipas 2.0 User Manual
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DWL-3000XY and DWL-3500XY is a 2-Axis High Precision Digital Level & Machinist Level with built-in Vibrometer. These digital levels are embedded with advanced MEMS sensor technology, designed for professional & trade specialist to achieve high accuracy and simultaneous display of angular & vibration measurements. DWL-2000XY is an affordable model introduced with basic features. These digital levels are capable of remote real-time data acquisition, logging & analysis when in sync with PC. It is highly effective when used for installation, setting up and maintenance of high precision CNC machines, test and measuring equipment.

Device Overview

- 2-Axis colour graphic display of angular & vibration measurements
- Real-time digital & analogue display for data logging & analysis
- High resolution of 0.01°(175 µm/M) or 0.001°(18 µm/M) (3.6 arcsec)
- Built-in Vibrometer for real-time vibration measurement.
- Wireless/USB connectivity for remote data logging & analysis.

Device Features & Icons

**ANGLE METER**
Real-time colour graphic display for Single/Dual Axis digital & analogue angle measurements & data acquisition, logging on device screen/PC monitor.

**VIBRO METER (USB only)**
Real-time colour graphic display for vibration measurement and data logging on device screen/PC monitor.

**ALT. LEVEL SETTING**
Enable user to measure relative angles at a common plane with respect to a reference angle set to zero.

**ABSOLUTE LEVEL SETTING**
Enable user to perform absolute symmetry readings for both “front” & “reverse” (+180 degrees) positions of any measurement angle.

**SETTING MENU**
Enable User to define various parameters on the device functions.

**WIRELESS SYNC (Optional)**
Wireless Sync to computer/tablet/smartphone for remote measurement, data acquisition, logging & analysis.

**TEMPERATURE COMPENSATED**
These instrument/device are temperature calibrated for the entire specified operating temperature range.

Device TFT LCD Displays

- 2-Axis colour graphic display of angular & vibration measurements
- Real-time digital & analogue display for data logging & analysis
- High resolution of 0.01°(175 µm/M) or 0.001°(18 µm/M) (3.6 arcsec)
- Built-in Vibrometer for real-time vibration measurement.
- Wireless/USB connectivity for remote data logging & analysis.

PC Sync Software / Mobile Sync Apps

**DUAL AXIS ANGLE GRAPH**

**VIBROMETER**

**SMART 2D BUBBLE**

**Bluetooth Connectivity**

Software Features

- User-Friendly "Plug & Play" USB Connection for angle & vibration remote measurement, data acquisition, logging & analysis in computer.
- Bluetooth Connectivity (Optional) for wireless remote data acquisition, monitoring & logging.
- Digi-Pas Mobile Sync Apps in Android Tablet and Smartphone.

Advantages of 2-Axis Digital Level

**SPEED & PRECISION**
Instant 2-Axis simultaneous digital display of high resolution & accuracy providing a comprehensive solution for levelling, alignment & vibration measurements resulting in time saving and quality professional works.

**CLARITY**
Digital colour graphic & numeric display to enable real-time collection & storage of digital angle/levelling/alignment data for machine commissioning accountability & analysis.

**EFFECTIVE**
The remote reading Wireless/USB Cable capability via PC/Tablet/Smartphone providing advantages that traditional single axis spirit level is difficult or unable to match. i.e. effectively, only one person is required to level/align a machine.

**ACCREDITATION**
Instrument accuracy is verified by accredited 3rd party Calibration & Test Service Providers in USA, Japan, UK & Germany and traceable to NIST, JIS, UKAS & DIN under ILAC & A2LA.