

## TECHNICAL SPECIFICATIONS

DWL3000XY

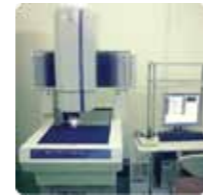
DWL3500XY

INNOVATED for  
PROFESSIONALS in ...

Measurement Range (Single Axis Mode)	0.00° to ± 90.00°	0.000° to ± 20.000° **
Measurement Range (Dual Axis Mode)	0.00° to ± 15.00° **	0.000° to ± 10.000° **
Resolution	0.01° (175µm/M) (0.002 in/ft)	0.001° (≤20µm/M) (0.0002 in/ft)
Accuracy	± 0.01° at 0.00° ~ ± 10.00° (175µm/M) (0.002 in/ft) (36 Arcsec) ± 0.03° at other angle	± 0.001° at 0.000° ~ ± 2.000° (≤20µm/M) (0.0002 in/ft) (3.6 Arcsec) ± 0.003° at other angle
Repeatability	0.01° (175µm/M) (0.002 in/ft)	0.001° (≤20µm/M) (0.0002 in/ft)
Cross Axis Error	Negligible (± 0.0025°)	Negligible (± 0.00025°)
Vibrometer (Relative g)	1.0	2.0
Display	Colour TFT LCD	Colour TFT LCD
Power Supply *	4 x AAA 1.5V Batteries / USB	4 x AAA 1.5V Batteries / USB
Material	PC ABS / Aluminum	PC ABS / Cast Iron
Connectivity	USB 2.0 Cable (≤ 5 metre) Bluetooth (≤30 metre) (Optional)	USB 2.0 Cable (≤ 5 metre) Bluetooth (≤30 metre) (Optional)
PC SYNC Software	Basic Edition Professional Edition (Optional)	Basic Edition Professional Edition (Optional)
Operating Temperature	-10°C to +50°C (Calibrated) 14°F to 122°F (Calibrated)	-10°C to +50°C (Calibrated) 14°F to 122°F (Calibrated)
Dimension (mm)	188 x 62 x 37	188 x 62 x 37
Nett Weight (Approximate)	580 gram	1100 gram
User Self Calibration	Yes	Yes



CNC Precision Machine Alignment



Vision Measurement Equipments (Metrology)



Research Laboratory



Semiconductor Production Machines

# Digi-Pas®

A division of VENTURA Group of Companies

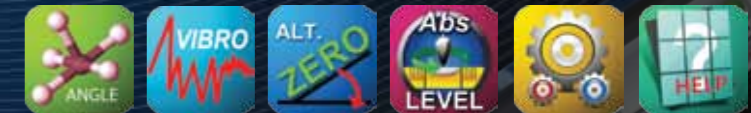
## 2-Axis



High Precision

Digital Machinist Level

with Vibrometer



Model: **DWL3000XY**  
Series



Data Logging PC Software



Innovative &  
Technology Driven Products™

\* Alternative Device power can be obtained from External USB Power Source .

\*\*User may use a customized Digi-Pas® Angle Adaptor® to extend measuring angle beyond stated range.

Note: Product Accuracy has been verified by Metrology Laboratories such as UKAS, DIN, JIS, NIST.  
For more information, please visit "www.digipas.com/Calibration.html".

**CAUTION**

Strong Magnet



Digi-Pas® DWL3000 XY Products  
come with a two years warranty from  
JSB TECH Pte Ltd

Digi-Pas® Products are manufactured under SGS certified  
ISO Quality standards



DEALER:

Please contact our Global Representatives & Authorised Distributors:

Product of Singapore



[www.digipas.com](http://www.digipas.com)

Products tested by TUV, UKAS, JIS, NIST & ILAC and manufactured under SGS certified ISO quality standards:



Designed by Cambridge Ventura, England (UK)

# HIGH PRECISION DIGITAL MACHINIST LEVEL

*Innovative & Technology Driven Products™*

## DWL3000 XY Series Device

DWL3000 XY Series is a 2-Axis High Precision Digital Machinist Levels with built-in Vibrometer designed for professional & specialist to achieve high resolution and accuracy of angular & vibration measurements, capable of real-time data logging & remote monitoring.

It is ideally used for installation, setting up and maintenance of high precision CNC machines, test & measuring equipments.

### Device Features

- 2-Axis colour graphic display of angular & vibration measurements
- Real-time Digital & Analog display for data logging & analysis
- High resolution of 0.01°/0.001° (175/18 μm/M) angular measurement.
- Built-in Vibrometer for Real-time vibration measurement.
- USB connection for remote data logging & analysis in computer

### Device TFT LCD Displays



®Registered Design

### Device Main Menu ICON



**ANGLE METER**  
Real-time colour graphic display for Single/Dual Axis digital & analog angle measurements & data logging on device screen or computer monitor.



**VIBRO METER**  
Real-time colour graphic display for vibration monitoring and data logging on device screen or computer monitor.



**ALTERNATE ZERO SETTING**  
Enable user to measure relative angles at a common plane with respect to a reference angle. The reference angle can be set using alternate zero feature.



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

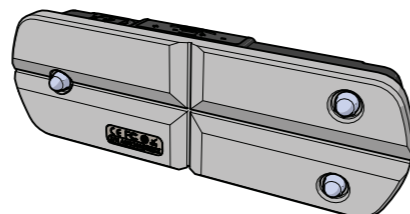


**SETTING MENU**  
Enable User to define various parameters on the device functions.



**HELP MENU**  
Enable User to have a quick and easy reference on Device's button function at different display screen.

Three-Points contact base for specialised applications:

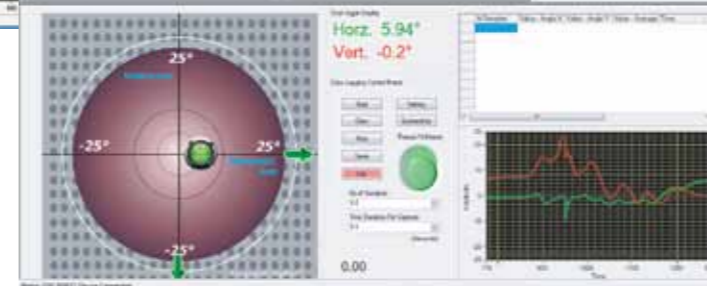


## PC Sync Professional Software

### 2-AXIS ANGLE GRAPH



### VIBRO GRAPH



### 2-AXIS "BUBBLE" METER



### Software Features

- USB Connection for angle & vibration remote measurement, data logging & analysis in computer.

### Advantages of Digi-Pas® Digital Level

- **SPEED**  
*Instant* digital display of levelling & vibration measurements for *time saving* and *quality works*.
- **CLARITY**  
*Digital colour graphic display* to enable real-time collection of measurement data for commissioning & analysis purposes.
- **PRECISION**  
*2 Axis* high resolution 0.01°/0.001° (175/18 μm/M) with *PC remote measurements* capability provide benefits that the traditional spirit level is difficult or unable to match.



Digi-Pas® High Precision Digital Machinist Level  
*Advanced MEMS Technology*



**VS**

Traditional Spirit Levels