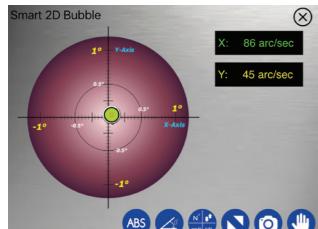


Professional Mobile Sync Apps

The user-friendly Digi-Pas® Level Mobile Sync Apps can be easily installed in smartphone or tablet to fully utilize the remote wireless Bluetooth mobile connectivity to the Digi-Pas® DWL-9000XY 2-axis Ultra Precision Inclinometer, providing amazing user experience of 'one-man-operation' for machine installers to perform remote 2-axis simultaneous levelling & alignment task conveniently and speedily.

Android & iOS Apps Features



SMART 2D BUBBLE®

This feature enables user to view 2-axis angle/levelling measurement simultaneously in graphical bull's eye (with auto range feature) and numeric formats in arcsec & mm/M units.

Quality and productive works can be achieved by completely eliminating the hassles of levelling one-axis-at-a-time (trial-and-error) experienced when using conventional single-axis levels.



Single-Axis & Dual-Axis Angle Meters

This feature enables user to view single-axis or dual-axis angle/levelling measurement in numerical and graphical display i.e. arcsecond & mm/M units.

Features comparison

Features	Pc Sync Pro Edition	Mobile Sync Pro Edition	Mobile Sync Free Edition
3D Surface Flatness Graph	✓		
SMART 2D BUBBLE®	✓	✓	
Single-Axis Angle Meter	✓	✓	✓
Dual-Axis Angle Meter	✓	✓	
Single-Axis Angle Graph	✓		
Dual-Axis Angle Graph	✓		
Vibrometer Graph	✓		
USB Connectivity	✓		
Bluetooth Connectivity	✓	✓	✓

Applications :



Authorised Distributor:

www.digipas.com



JCL-XXXXXX-XX-XX

2-Axis Ultra Precision Inclinometer

Model : DWL-9000XY



Resolution
0.2 arcsec. or $\leq 1\mu\text{m}/\text{M}$



Digi-Pas® DWL-9000XY is a **2-Axis Ultra Precision Inclinometer** with built-in Vibrometer, having resolution of **0.2 arcsec.** and wide measuring range of **7200 arcsec** or **33mm/M** for high precision leveling, tilted-plane angles measurements, 2D surface-plane profiling & precision alignment tasks, and capable of real-time wireless Bluetooth/USB remote measuring & data logging when used with PC Sync Software/ Mobile Sync App.

This instrument is exceptionally engineered to greatly simplifying the task of engineering professionals & scientists in installation, setting up, maintenance and characterization of very large-sized CNC machines, plane-surface flatness profiling, precision test/measuring instruments & 2D alignment-sensitive equipment.

Innovation & Technology Driven™

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ISO 14001:2004

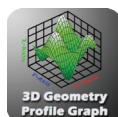
ISO 9001:2008

2-Axis Ultra Precision Inclinometer

Instrument Overview

- 2-Axis colour graphic simultaneous display of leveling reading & surface geometry profile measurements
- Accuracy of ± 0.6 arcsec. At $0 \sim \pm 100$ arcsec.
- Built-in Vibrometer for real-time vibration measurement
- Real-time digital & analogue display
- Wireless Bluetooth/USB connectivity for remote data logging & analysis
- 3-points contact base for stable surface-to-surface contact to prevent “rocking”

Instrument Features



3D SURFACE GEOMETRY PROFILE GRAPH

Enable user to perform 3D surface flatness geometry measurement in 3-Dimensional visual graph when in synchronization with PC using Professional PC Sync software.



ANGLE METER

Real-time colour graphic display for single/dual-axis digital & analogue angle measurements, data acquisition & logging on device LCD screen or PC monitor.



VIBRO METER

Real-time colour graphic display for vibration measurement and data logging on device screen or PC monitor.



ALTERNATE ZERO SETTING

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



ABSOLUTE LEVEL SETTING

Enables user to perform absolute symmetry readings for both “front” & “reverse” (180 degrees) positions of any measurement angle to determine zero datum with reference to center of gravity.



WIRELESS SYNC

Bluetooth wireless sync to computer/tablet/smartphone for remote measurement, data acquisition, logging & analysis.



TEMPERATURE COMPENSATED

The instrument/device is temperature compensated for the entire specified operating temperature range.

Technical Specification - DWL-9000XY

Measurement Range (Single Axis Mode)	0 to 7200 arcsec. (0.0000° to ± 2.0000 °)
Measurement Range (Dual Axis Mode)	0 to 3600 arcsec. (0.0000° to ± 1.0000 °)
Resolution	0.2 arcsec. ($\pm 1\mu\text{m}/\text{M}$)
Accuracy	± 0.6 arcsec at $0 \sim \pm 100$ arcsec; ± 1.2 arcsec at other angles
Repeatability	0.2 arcsec. ($\pm 1\mu\text{m}/\text{M}$)
Measurement Speed	≤ 25 Sec
Respond time	≤ 3 Sec
Vibrometer (Relative g)	2.0
Display	Colour TFT LCD
Power Supply	4 x AAA 1.5V Batteries / USB Power source
Material	PC ABS / Alloy Steel
Connectivity	Bluetooth Industrial Class 1 (≤ 30 metres) & USB 2.0 Cable (≤ 5 metres)
PC SYNC Software	Professional Edition (included)
Temperature Error	$\leq \pm 0.2$ arcsec/°C
Storage Temperature	-20°C to +50°C
Dimension (mm)	188 x 62 x 37
Nett Weight (Approximate)	1150 gram

Note : Product specification and appearance are subjected to change for improvement without prior notice.

Accreditation

DWL-9000XY instrument accuracy is verified by accredited 3rd party independent calibration & test bodies and National Metrology Centre traceable to SI standard and NIST, JIS, UKAS & DIN under CIPM MRA.

Advantages of 2-Axis Ultra Precision Inclinometer

SPEED, PRECISION & EFFECTIVENESS

Precision levelling, angle measurement/alignment and surface flatness profiling tasks essentially involve 2-dimensional planes rather than single-axis. Thus, 2-axis simultaneous display of surface plane angles readings are required to effectively guide engineers in adjusting precision object/machine to a targeted position accurately and speedily.

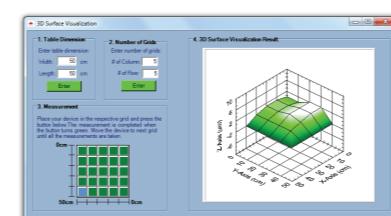
Digi-Pas® pioneered world's-first 2-axis simultaneous angles display instrument (U.S. patented) embedded with vibrometer which offers superior performance. It empowers engineers in eradicating constraints associated with using traditional single-axis 'bubble' or digital levels that require them to conduct those time-consuming tasks one axis at a time' with tedious trial-and-error iterations.

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Professional PC Sync Software

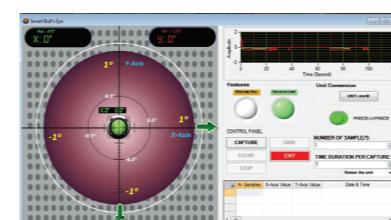
Digi-Pas® Professional PC Sync is a 'plug & play' user-friendly interface software (embedded with National Instrument software) specifically designed for ultra-precision application to enable remote real-time measurement, user-definable data acquisition & logging through wireless Bluetooth connectivity/USB cable with DWL-9000XY 2-Axis Ultra Precision Inclinometer.

PC Sync Software Features



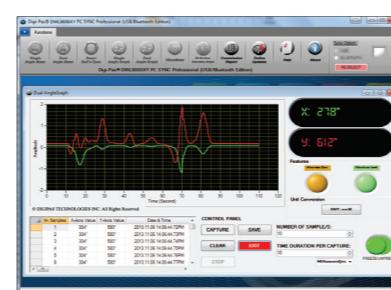
3D Surface Flatness Graph

- Enable 3D surface flatness geometry measurement, profiling and characterization
- 3D visual graph and numeric data can be saved in Excel file



SMART 2D BUBBLE®

- Simultaneous graphical bull's eye (with auto range feature) and numeric display of 2-axis angle/levelling measurement
- Clear indication of a plane surface's elevation point simplifies 2D alignment tasks



Single-Axis & Dual-Axis Angle Graphs

- Line graph display and numerical readings for single-axis or dual-axis angle/levelling measurement
- Enables recording of machine's levelling status changes over a period of time



VibroMeter Graph

- Numerical and graphical display of vibration magnitude and pattern/graph for effective assessment of vibration conditions
- Fast sampling rate at 10ms (milliseconds) per data capture
- Vibration data can be saved in Excel file for production yield improvement and scraps reduction analysis



Single-Axis & Dual-Axis Angle Meters

- Real-time single-axis or dual-axis angle/levelling measurement in graphical and numerical display
- Large, easy-to-read display with units include arcsecond & mm/M

