



NVLAP LAB CODE 200762



**Boeing Test & Evaluation  
Metrology Lab Operations**

C/O Derek Porter  
PO Box 3707  
MC 2R-40  
Seattle, WA 98108  
206-544-5267

# CALIBRATION CERTIFICATE

## LEVEL, DIGITAL

Manufacturer: DIGI-PAS  
Model: DWL-3000 XY

Property Number: 11A20426  
Serial Number: 11A20426

**SUBMITTED BY:**

Name: Ming Yong  
Company: DigiPas USA  
Address: 304 W. Main St., #120  
Avon, CT 06001  
Contract No: BTS-12-9419

**LOCATION OF CALIBRATION:**

Boeing Metrology Labs,  
Dimensional & Optical Laboratory  
1420 S. Trenton St. Bldg. 15-30  
Door E12  
Seattle, WA 98108  
206-544-0424

**As received conditions:**

The cardboard shipping box and packaging containing the level appeared to be undamaged and in good condition as received.

**As shipped conditions:**

The level was sent back to the customer in the same packaging as received.

Certificate Number: 11A20426-9094888C  
Calibration Location: BXT87, ENG & PRIMARY  
Ambient Temperature: 68.0°F ±0.4°F  
Ambient Humidity: 40% +10 / -20% RH  
Certification Date: 06/15/2012

Calibration Document: D6-36732  
Calibration Procedure: PN022753A

Prepared by: Norbert Solomonson  
Approved by: Norbert Solomonson

Standards used to establish the basis for this certification are traceable to standards maintained by the National Institute of Standards and Technology (NIST) or other authorized standards laboratories and are compared, either directly or indirectly, with these standards at planned intervals. Unless otherwise noted, the stated uncertainty is derived from the uncertainty of calibration standards, as well as the item's performance at the time of calibration. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This certificate shall not be reproduced except in full without the written approval of the originating organization.



**CERTIFIED PERFORMANCE:**

The performance estimate is based on the test instrument's resolution, repeatability, reading deviation compared to the angle setting standard and the uncertainty of the angle setting standard.

The expanded uncertainty, U, with a coverage factor of k = 2 (95% confidence level) is:

U = ± 0.035°, for the range of -90° to +90°, single mode axis.

**CONDITIONS OF USE:**

Prior to use, the instrument must first be "calibrated" by following the manufacturer's instructions in the publication, "Guide For Calibration & Test of DWL3000XY". The master square and the leveled granite surface plate needed for calibration must meet the conditions required in the aforementioned guide.

**CALIBRATION STANDARDS:**

10525886	AA Industries, Model B12 Indexing Table	Certification # 10525886-737752C
2X397134	Starrett Grade AA Laboratory Granite Surface Plate	Certification # 2X397134-8993646
30144555	TOTO, model VEF196AY Ceramic Square	Certification # 30144556-7643310C