



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Multiple Dimension Measuring Device
Static
Model: PG NTEP App
Software Version: V9.0.70 or higher

Submitted By:
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Standard Features and Options

Axis ID	d_{min}	Minimum Dimension	Maximum Dimension
Length	0.5 in	6.0 in	84.0 in
Width	0.5 in	6.0 in	84.0 in
Height	0.5 in	6.0 in	84.0 in

- Android Operating System
- iOS Operating System
- Cloud Based image processing
- Automated Data Capture
- Mobile device based (Tablet or phone)
- Tablet or phone requires 4k video capability
- User has permanent record of size, time and place.

Software version number is the same on the Android and iOS devices

Temperature Range: 0 °C to 40 °C (32 °F to 104 °F).

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*. Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Mahesh Albuquerque
Chair, NCWM, Inc.

Ivan Hankins
Chair, NTEP Committee
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PhotoGAUGE Inc

Multiple Dimension Measuring Device / PG NTEP App

Application: The PhotoGAUGE software when interfaced with an Android or iOS operating system, installed on a mobile device with cameras capable of 4k video and a manufacturer supplied target marker is used to calculate the dimensions of opaque cuboidal objects.

Identification: All required markings are located by tapping the menu button at the top of the upload page, "settings", then "NTEP certification" on the Android or iOS operating systems.

Sealing: The manufacturer keeps the source code. The device has no operator changeable calibration or configuration parameters and does not require sealing.

Operation: PhotoGAUGE is a software that takes 4K video as input and produces 3D measurements. It uses computer vision artificial intelligence and a target marker to understand the shape and size of the objects in the video, then reconstructs digital twins that an operator can use to derive measurements of length width and height.

Test Conditions: The emphasis of the evaluation was on device design, marking, operation, and performance. Multiple dimension measurements were performed using Android and iOS operating systems phones with 4k video capability at maximum, minimum, and mid-ranges for the dimensions listed utilizing the manufacturer supplied target markers. The device was also tested over a temperature range of 0 °C to 40 °C (32 °F to 104 °F). Testing was also performed in "power save mode" for the Android and iOS device.

Evaluated By: J. Gibson (OH)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2022 Edition. NCWM Publication 14: Weighing Devices, 2022 Edition.*

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: D. Flocken (NCWM)

Example of Device:

Measurement Screen

