



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Multiple Dimension Measuring Device  
Static Dimensioning , Handheld, Software  
Model: xDim  
Maximum: 30 in Length width and height  
Minimum: 6 in  
 $d_{min}$ : 0.5 inch  
Metrological Software Version: 1.10 or lower

**Submitted By:**

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**Standard Features and Options**

For dimensioning of:

- Any known cuboidal shaped static opaque object where the shape of the object can be defined by scanning the X Y and Z axis.

	Length (in)	Width (in)	Height (in)
Maximum	30	30	30
Minimum	6	6	6
$d_{min}$	0.5	0.5	0.5

- Touch screen tablet with USB port
- Intel RealSense camera model: D415, D455 or L515
- Windows 10 or higher operating system
- Communication: Wi-Fi
- DC voltage: battery

Temperature Range: 0 °C to 35 °C (32 °F to 95 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST 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.



Hal Prince  
Chairman, NCWM, Inc.



Craig VanBuren  
Committee Chair, National Type Evaluation Program Committee  
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## 4DMobile, LLC

### Multiple Dimension Measuring Device / xDim

**Application:** The xDim is multiple dimension measuring device software when combined with Intel RealSense model D415, D455, or L515 cameras and a tablet or handheld device with a Windows 10 operating system form a portable device for dimensioning cuboidal objects.

**Identification:** The required markings are accessible from the ( i ) icon on the main operation screen of the tablet.

**Sealing:** The device uses a Category 3 event logger; the information is accessible from the ( i ) button on the main measurement screen then tapping the audit log in the lower right corner of the markings display.

**Operation:** The handheld portable dimensioner functions when an operator places a single object within the defined measurement view area on the screen and presses the start button. The measurements and picture are displayed on the compatible handheld device. The operator must dimension from a 45-degree angle and see the top and two sides. The device will instruct the operator to move closer, farther or to the left or right to capture the measurement.

**Test Conditions:** A 4DMobile model: xDim was submitted with 3 different Intel camera models the D415, D 455 and L515 for evaluation. The emphasis of the evaluation was on software design, marking, operation, performance, and compliance with influence factor requirements. Multiple measurements were performed using each camera at and above maximum at mid and at and below minimum dimensions. The device was also tested over a temperature range of 0°C to 35 °C (32 °F to 95 °F). All applicable sections of publication 14 Multiple Dimension Measuring Device checklist were evaluated. Voltage testing was performed with the device in “low power consumption” mode. The battery is not end user removable, so DC high voltage testing was waived.

**Evaluated By:** J. Gibson (OH)

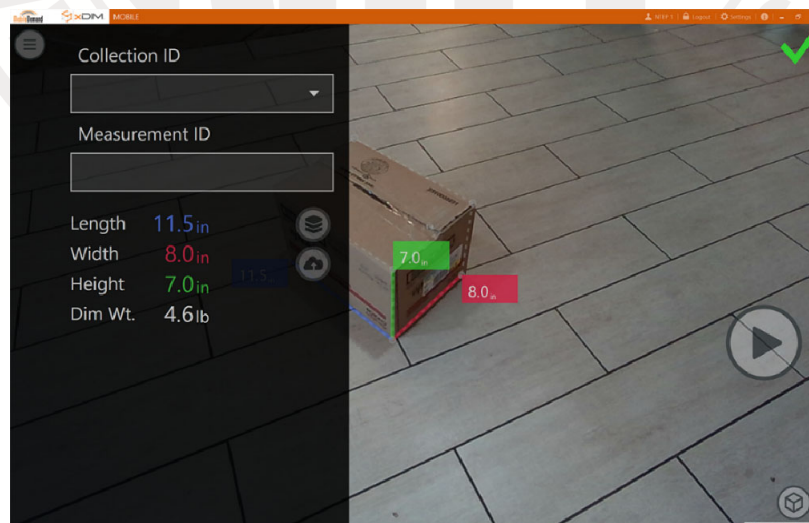
**Type Evaluation Criteria Used:** *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2020 Edition. NCWM Publication 14 Measuring Devices, 2021 Edition.*

**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



Tablet with Intel RealSense D415 Camera



**4DMobile, LLC**  
Multiple Dimension Measuring Device / xDim



Tablet with Intel RealSense D455 Camera



Tablet with Intel RealSense L515 Camera

