

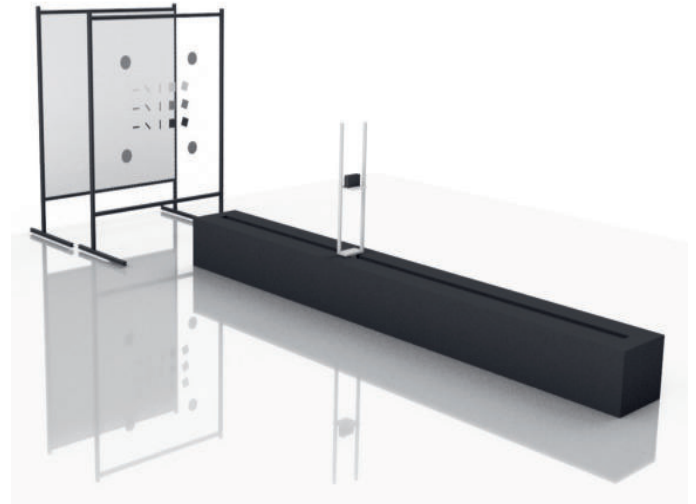
# iQ-Depth Calibrator

## A Time-of-Flight (ToF) camera calibration device

The iQ-Depth Calibrator is a highly advanced test stand designed for depth map calibration and depth performance characterization of a time-of-flight (ToF) camera system.

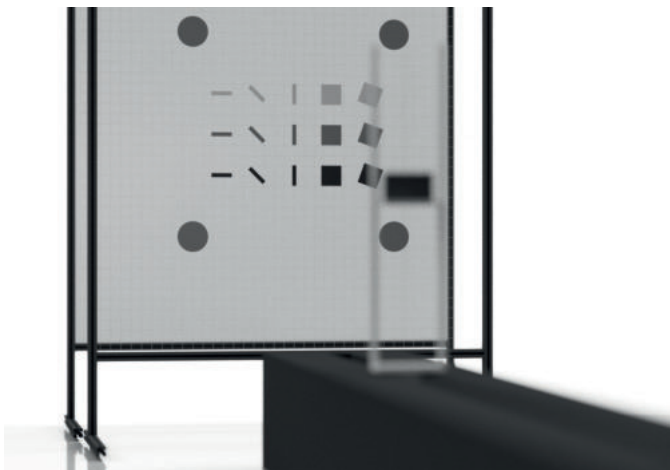
### Main Features

- \* Evaluate ToF camera systems
- \* Custom designed test chart
- \* Motorized camera alignment
- \* Built with light absorbing material



### A unique test chart

This device comes with a uniquely designed test chart that includes homogeneously reflective test targets and a perpendicular laser to ensure its accuracy. Once set up, test images are recorded with the exact position of the DUT so that the ground truth is always known and any calibration errors can be identified\*. You can customize the chart with different shapes, materials, object planes, and reflectivity.



Custom designed test charts

At a Glance	iQ-Depth Calibrator
Principle	Fixed orthogonal alignment of a motorized bench and a homogeneous chart with defined reflection for depth map calibration
Movement range	3000 mm (custom on request, min 1000 mm)
Min. distance to chart	400 mm
Velocity**	1 mm
Acceleration**	max 2.5 m/s <sup>2</sup>
Chart size	2 x 2 m
Reflectivity	900 x 500 x 3730 mm (without camera mounting)

\*The ground truth for a ToF depth measurement is determined by the homogeneously reflecting test target.  
\*\*Only applicable for motorized version (iQ-Bench-M)