Basler TOF Camera
3D imaging for industrial applications

BASLER
the power of sight

850 nm and 940 nm
Outstanding depth data thanks to the right wavelengths for indoor and outdoor use.

IP67 camera
Robust housing is dirt- and water-proof, with a M12 connector for demanding industrial applications.
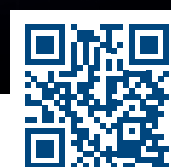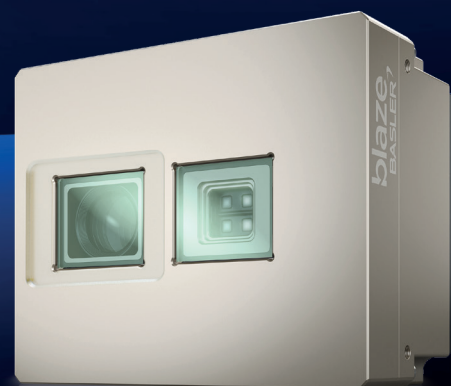
3D images with low latency
Minimal latency and precise hardware triggering provide fast 3D image capture.
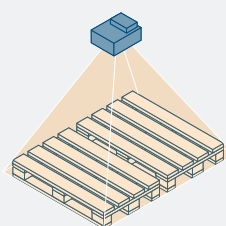
Dual Exposure HDR
Robust 3D imaging for scenes with large differences in brightness.

For more information, please visit
*baslerweb.com/tof*

Highlights

Large measuring range – The Basler ToF camera features a large field of view (67° x 51° or 108° x 77°) and a flexible working distance (0.3 m to a maximum of 10 m) to capture depth data for large objects and even entire scenes at once. This allows it to provide optimal support for pick-and-place applications, volume measurements, and palletizing tasks in logistics and production environments.
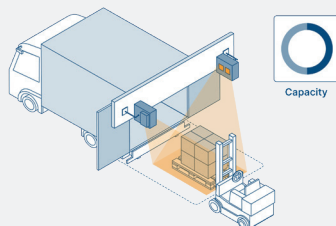
Multi-Camera operation – The Basler ToF Camera provides camera functions for interference-free, synchronous operation of multiple cameras in the same application, regardless of their network location. Multi-camera systems may be required to capture large objects, full scenes, or moving objects, such as AGVs in a warehouse.
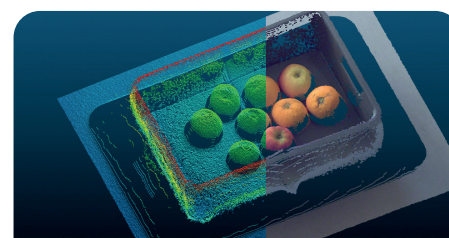
RGB-D solution – If the depth values of the Basler ToF Camera are combined with color values recorded by a separate RGB camera, point clouds can be displayed in the colors that are actually present. This can help to compensate for missing depth information, perform additional classifications based on object color, or facilitate scene understanding.

	blaze-101	blaze-102	blaze-112
Wavelength	940 nm	850 nm	850 nm
Field of View	67° × 51°	67° × 51°	108° × 77°
Sensor	Sony DepthSense™ IMX556		
Resolution	640px x 480px		
Frame rate	30 fps		
Interface	GigE Vision, GenICam		
Working Range	0 m - 10 m		
Accuracy (typical)	±5 mm (0.5 - 5.5 m)		
Housing Size	100 mm × 81 mm × 64 mm		
Conformity	CE, FCC, RoHS, REACH, IP67, Laser Class 1 IEC60805-1:2014, EAC[1]		
Software Support	pylon, Isaac, OpenCV, HALCON, MIL, Point Cloud Library (PCL), ROS, ROS2		

[1] Only for selected models, please refer to our website *baslerweb.com/ToF* for detailed information