

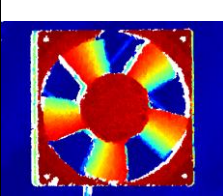
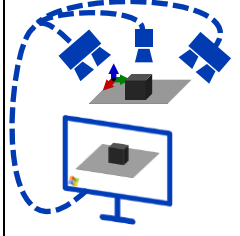
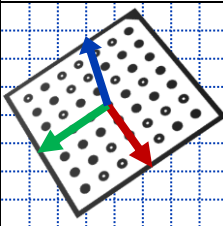
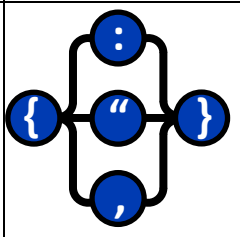
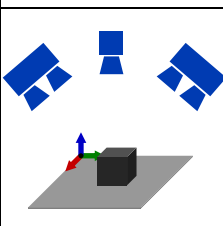
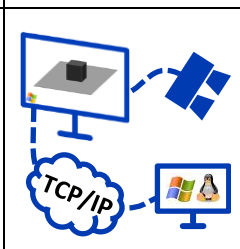
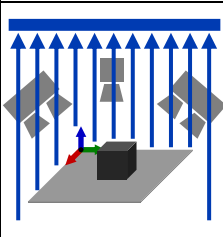

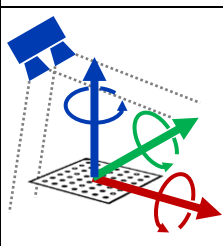
Ensenso N10 – Stereo 3D Camera



Hardware Features

Dimensions	150 (159 ¹) mm x 45mm x 45mm	¹ including IO Connector
Weight	400g	
Operating Distance	280 - 1400 mm (depending on model)	
Hardware Features	<ul style="list-style-type: none"> / Robust alloy housing, lockable cables (USB and GPIO) / 12 - 24V GPIO on 3-Pin M8 Sensor/Actuator Connector, opto-coupled / Hardware-Trigger Input and Output via GPIO / Acquisition of unicolored surfaces using the integrated model projector / Capturing of moving objects / Power supply via USB Bus (5V, 500mA, 2.5W) 	
Image Resolution	752 x 480 Pixels (WVGA)	
Depth Image Frame Rate	Up to 30 Hz (on Intel Core i7 CPU @ 64 Disparities)	
Depth Resolution	<p>0.1 mm – 1.6 mm, varying with Object distance</p> <div style="text-align: center;"> </div> <p>The actual accuracy depends on the model's focus and the viewed surface's geometry and material properties.</p>	
Fields of View	<div style="text-align: center;"> </div> <p>Actual view fields might be slightly smaller due to mounting tolerances.</p>	

NxLib - Stereo Processing Library

	<p>Full 3D Information: Depth images provide dense, per-pixel x, y, z coordinates</p>		<p>Scene Rendering: Rendered 3D views of the combined surface model and the calibration pattern pose</p>
	<p>Workspace Calibration: Specify your workspace coordinate system via the calibration pattern</p>		<p>JSON API: Powerful and extensible API based on JSON with object-oriented interface for C++</p>
	<p>Multi-View: Integrated data fusion from multiple stereo and color cameras</p>		<p>Remote Connectivity: Remote API access via TCP for easy exchange of process or configuration data</p>
	<p>Telecentric View: Generate fully rectified depth maps with fixed pixel size and orientation for easier processing</p>		<p>HALCON Interface: Image acquisition interface for the MVTEC HALCON with complete API access</p>
	<p>Pattern Gauging: Real-time, μm accurate 6DoF measurement of calibration pattern pose</p>	<pre> 35 34 class Json { 35 protected: 36 bool getV= 37 void setJ= 38 public: 39 Json(); </pre>	<p>Examples: Get started by trying simple HDevelop scripts and example programs with source code</p>