

3DPIXA HR

New Stereo camera with 5 micron optical resolution

Chromasens picked up the demands for high resolution 3D systems by developing a new 3D stereo camera with a lateral resolution of 5 micron. This new product has optimized optical components for high resolution and is in line with the Chromasens 3DPIXA family of stereo cameras using two high performance tri-linear RGB line sensors for fast image acquisition. The 3DPIXA HR (CP00520-D02-005-0035) with 5 micron resolution will be available mid of 2017.

Advantages of new 3DPIXA HR

- **Optical design and components optimized for high resolution**
- **Low distortion lens**
- **Unmatched image quality for high precision stereo**

The basic features of the new 3DPIXA HR:

Stereo line scan camera with 5 micron resolution CP00520-D02-005-0035	
Optical resolution	5 μm
Field of view (FOV)	35 mm
Height resolution	0.6 μm^*
Height range	0.5 mm [*]
Free working distance	77.9 mm
Maximum scan speed	105 mm/s
Line frequency	21 kHz
Camera link configurations	Base/Medium

*) Height range and height resolution depend on object surface



CAD model of linear stereo camera with 5 micron.