



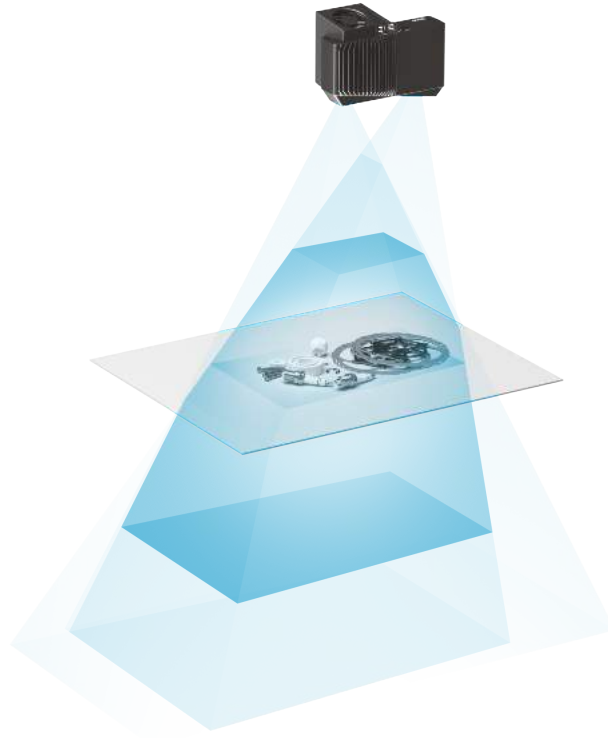
# Zivid One+

The world's most accurate 3D color camera

[zivid.com](http://zivid.com)

# Zivid One+ Small

For highly detailed, tiny objects at close range



**Optimal Range**

0.3 - 0.8m



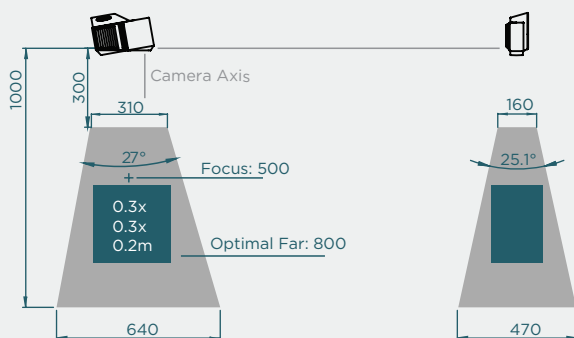
**Precision/  
z-noise**

0.03mm @ 0.3m  
<0.2mm @ 1.0m



**Maximum Range**

1.0m

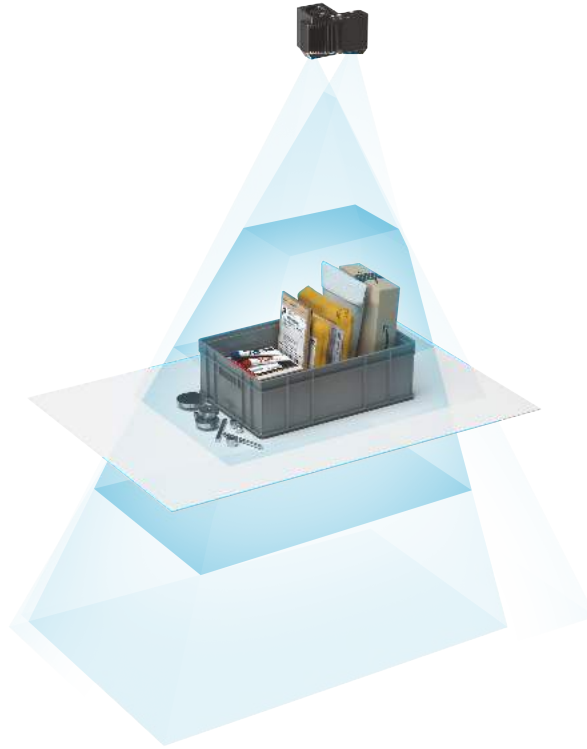


## Small

- Objects on tables, in trays or boxes
- Picking, inspection and verification applications

# Zivid One+ Medium

For small to medium objects, versatile range



**Optimal Range**

0.6 - 1.6m



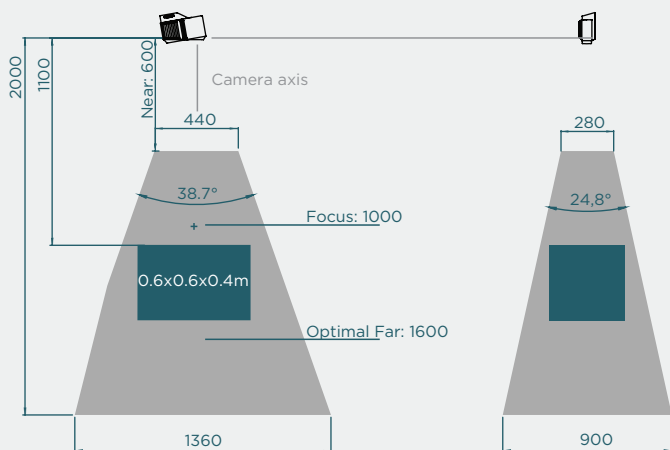
**Precision/  
z-noise**

0.07mm @ 0.6m  
<1.0mm @ 2.0m



**Maximum Range**

2.0m

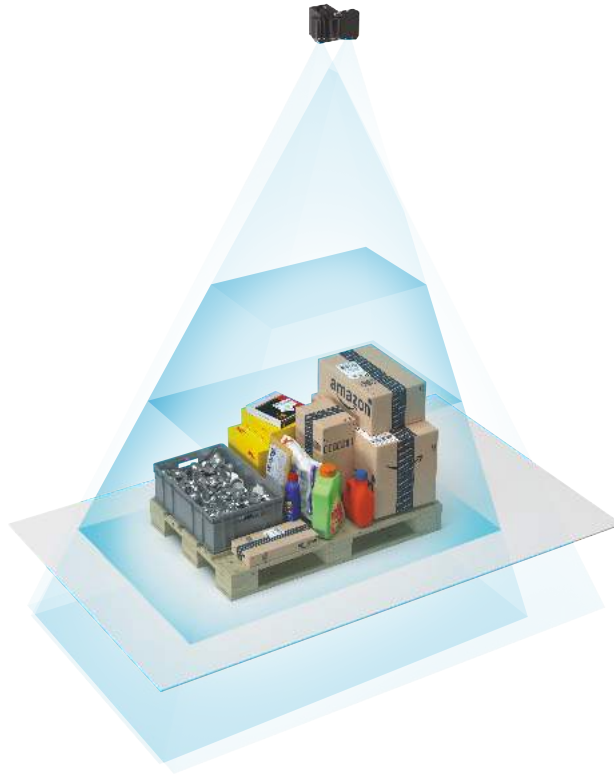


## Medium

- Objects on tables, in standard totes or bins
- Picking, assembly, and control applications

# Zivid One+ Large

For medium to large objects at longer ranges



**Optimal Range**

1.2 - 2.6m



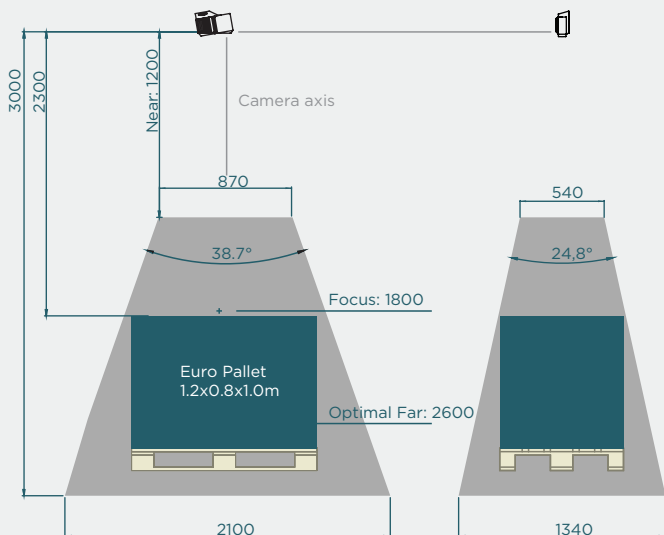
**Precision/  
z-noise**

0.3mm @ 1.2m  
<2.0mm @ 3.0m



**Maximum Range**

3.0m



## Large

- Objects on floor or standard EU/US pallets
- Picking and handling, de-palletizing

# 3D Camera Specifications

Airtight and intelligent cooling



Active lighting for textureless objects



Full RGB 3D color camera



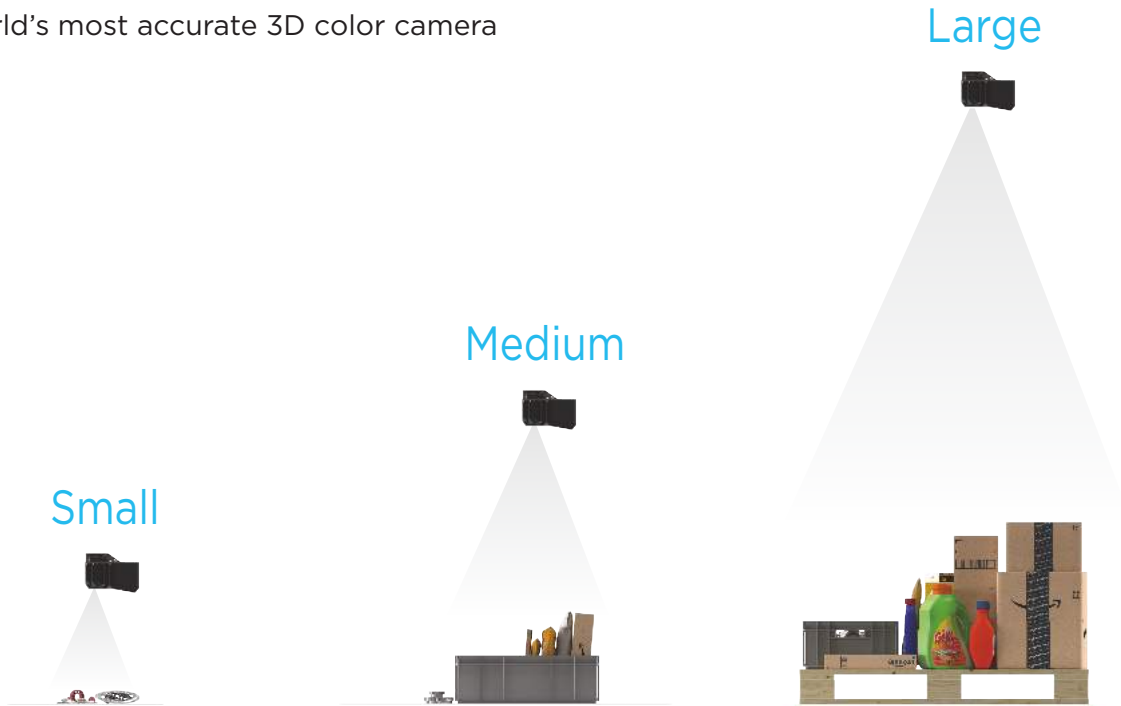
High Dynamic Range rapid electronic iris

	Small	Medium	Large
<b>Optimal Range (m)</b>	0.3 - 0.8	0.6 - 1.6	1.2 - 2.6
<b>Maximum Range (m)</b>	1.0	2.0	3.0
<b>FOV (mm)</b>	170 x 140 @ 0.3m 650 x 480 @ 1.0m	420 x 270 @ 0.6m 1370 x 900 @ 2.0m	850 x 530 @ 1.2m 2110 x 1360 @ 3.0m
<b>Spatial Resolution (mm)</b>	0.12 @ 0.3m 0.40 @ 1.0m	0.23 @ 0.6m 0.75 @ 2.0m	0.45 @ 1.2m 1.11 @ 3.0m
<b>Precision / z-noise (mm)</b>	0.03 @ 0.3m <0.2 @ 1.0m	0.07 @ 0.6m <1.0 @ 2.0m	0.3 @ 1.2m <2.0 @ 3.0m
<b>Acquisition Rate</b>	13 Hz (full resolution)		
<b>Output</b>	3D (XYZ) + Color (RGB) + Quality (Q) for each pixel		
<b>Image Size</b>	1920 x 1200 (2.3 Mpixel)		
<b>Imaging</b>	Color, 3D HDR, Reflection and noise filters		
<b>Simplicity</b>	Factory-calibrated 3D camera, easy and intuitive GUI Zivid Studio, Modern and high level API.		
<b>Software APIs</b>	C++ / C# / .NET GeniCam/HALCON (RC)		
<b>OS</b>	Windows 7 / 8 / 10 Ubuntu 16.04 / Ubuntu 18.04		
<b>Physical Interface</b>	USB3.0 ( 5m / 10m / 25m options) 24V DC		
<b>Dimensions and weight</b>	226 x 165 x 86 mm 2 kg		
<b>Environmental</b>	10-40°C / 5G Sinus / 25G Shock IP65 aluminum housing		
<b>Safety and EMC</b>	CE / EN60950 / CB / FCC class A		

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

# Zivid One<sup>+</sup>

The world's most accurate 3D color camera



## 3D IMAGING WITHOUT COMPROMISES

Excellent data quality in HD at speeds up to 13Hz with better than 100  $\mu\text{m}$  precision. No compromise between speed and resolution.

## HANDLES ANY MATERIAL

Captures high quality 3D images of even the most problematic industrial objects. Shiny metallic, black and absorbing or partly translucent.

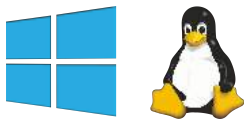
## FULL COLOR

Point cloud data (XYZ) and vivid RGB colors captured with the same sensor chip. One-to-one correspondence between color and depth.

## EASE OF USE

Factory calibrated and easy and intuitive to use. Comes with smart and intuitive GUI, interfaces for machine vision software and a modern and high level API.

## SUPPORTS YOUR WORKFLOW



### Contact Zivid

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[sales@zivid.com](mailto:sales@zivid.com)

Order Zivid One 3D cameras

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