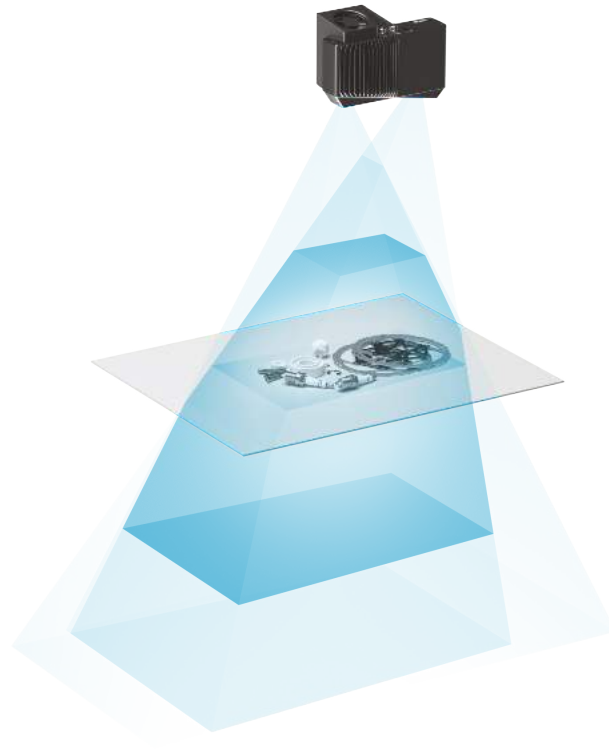# Zivid One⁺

The world's most accurate 3D color camera

Zivid One⁺ Small

For highly detailed, tiny objects at close range

Optimal Range

0.3 - 0.8m

Precision/ z-noise

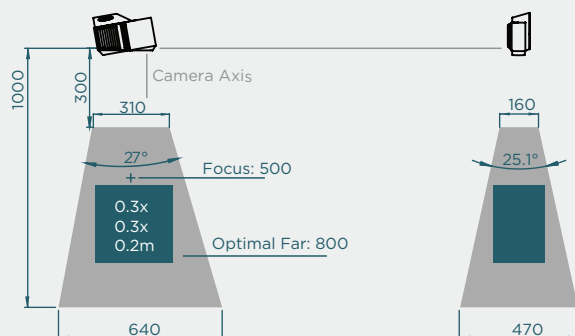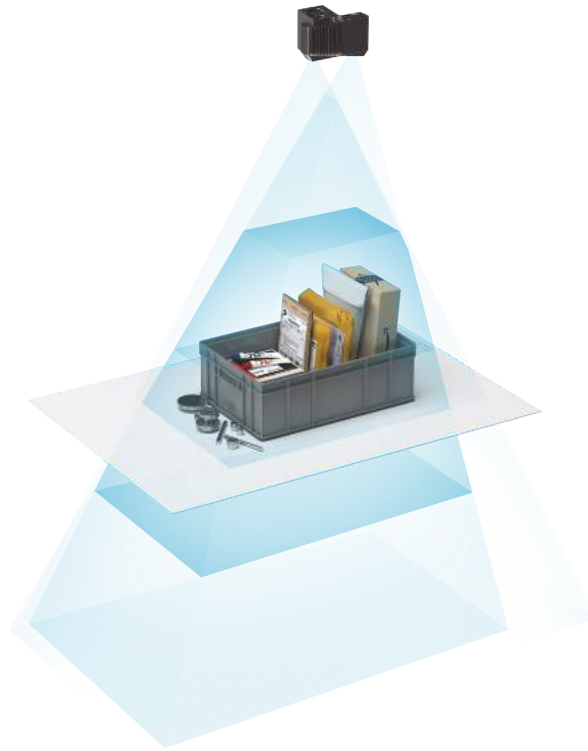0.03mm @ 0.3m
<0.2mm @ 1.0m

Maximum Range

1.0m

1000
300
Camera Axis
310
27°
Focus: 500
0.3x
0.3x
0.2m
Optimal Far: 800
640

160
25.1°
470

Small

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

Zivid One⁺ Medium

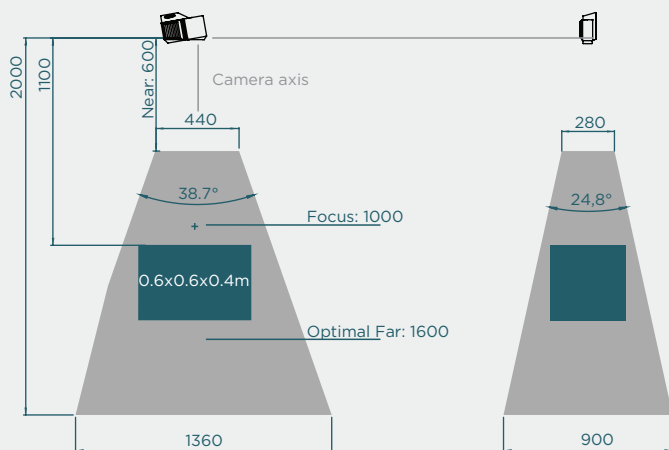## For small to medium objects, versatile range

Optimal Range	Precision/ z-noise	Maximum Range
0.6 - 1.6m	0.07mm @ 0.6m <1.0mm @ 2.0m	2.0m

2000
1100
Near: 600
Camera axis
440
38.7°
Focus: 1000
0.6x0.6x0.4m
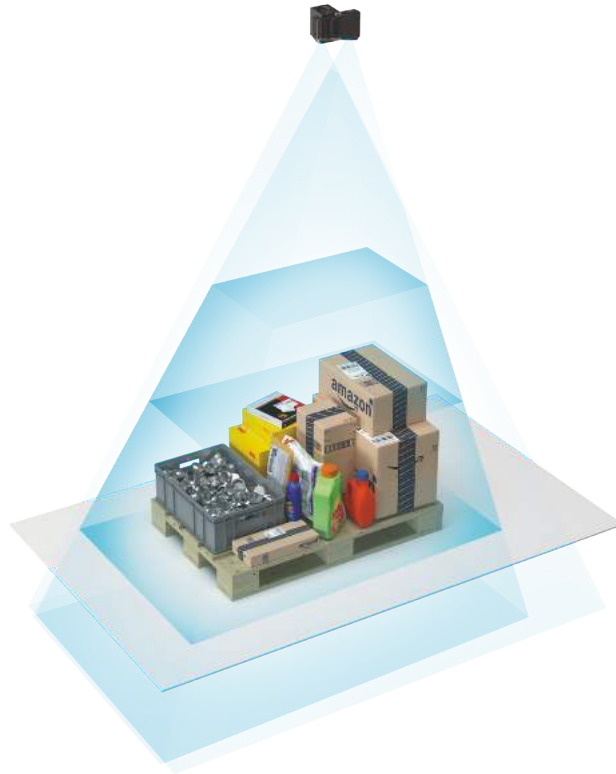Optimal Far: 1600
1360

280
24,8°
900

Medium

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

zivid.com

Zivid One⁺ Large

For medium to large objects at longer ranges
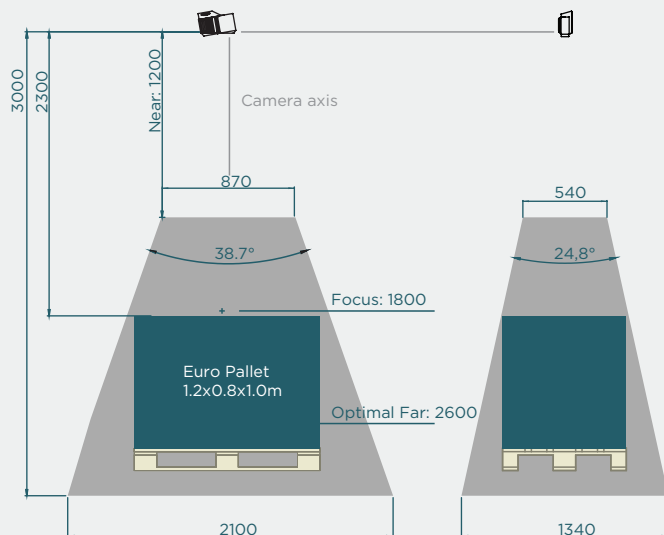

Optimal Range

1.2 - 2.6m

Precision/ z-noise

0.3mm @ 1.2m
<2.0mm @ 3.0m

Maximum Range

3.0m

3000
2300
Near: 1200
Camera axis
870
38.7°
Focus: 1800
Euro Pallet
1.2x0.8x1.0m
Optimal Far: 2600
2100

540
24,8°
1340

Large

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

3D Camera Specifications

Airtight and intelligent cooling

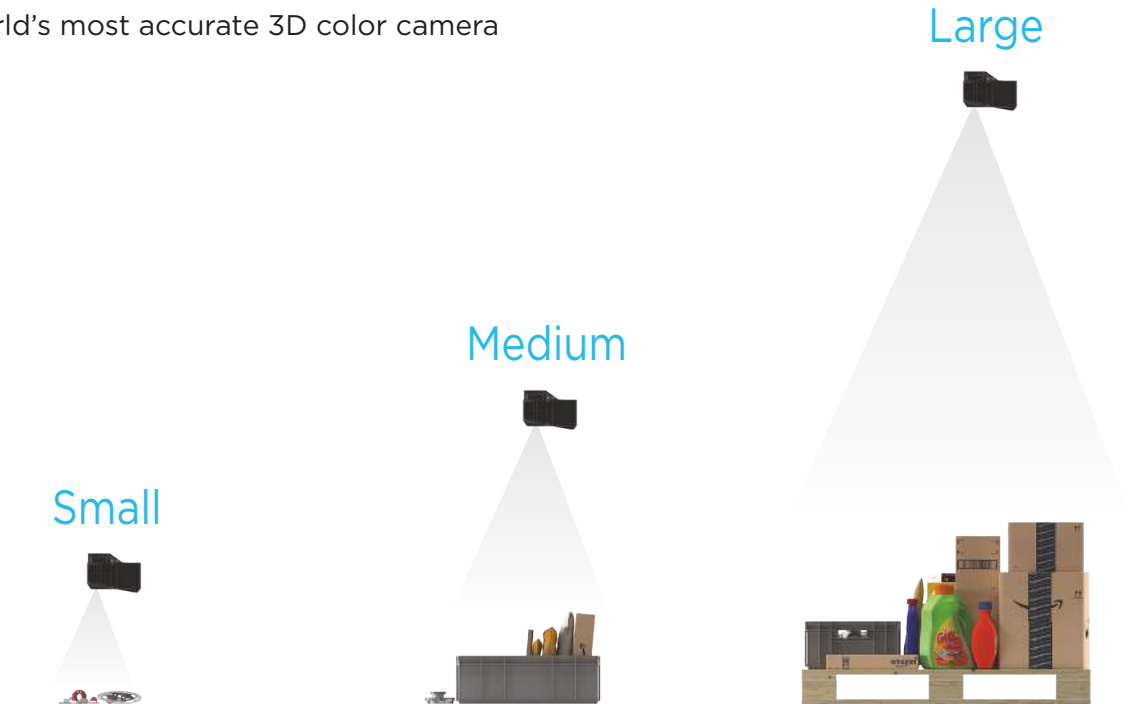Active lighting for textureless objects

Full RGB 3D color camera

High Dynamic Range rapid electronic iris

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

zivid.com

Zivid One⁺

The world's most accurate 3D color camera

Large

Medium

Small

3D IMAGING WITHOUT COMPROMISES

Excellent data quality in HD at speeds up to 13Hz with better than 100 µm 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.
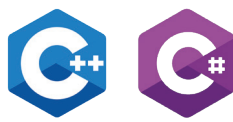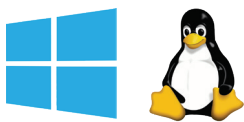
FULL COLOR

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

HALCON
the power of machine vision

GEN<i>CAM

Pre-order Zivid One Plus

www.zivid.com/order