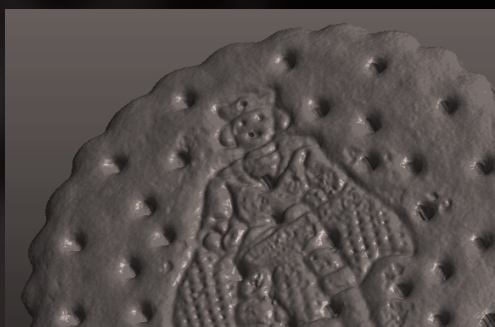




ECCO 35

ECONOMIC & COMPACT
FOR STRAIGHTFORWARD APPLICATIONS

STANDARD SCAN RATE FOR STRAIGHTFORWARD APPLICATIONS
EXCEPTIONAL VALUE BEST PRICE/PERFORMANCE
SMALLEST LIGHTWEIGHT HOUSING EASY TO FIT ANYWHERE



MODEL

ECCO 35.050

ECCO 35.100

Typical field of view ¹ near mid far	41 49 57 mm	61 82 103 mm
Measurement range ¹	60 mm	100 mm
Stand-off distance	150 mm	150 mm
Typical vertical resolution (Z) ¹	8.5 – 16.5 µm	11.5 – 32.5 µm
Typical lateral resolution (Y) ¹	57 – 80 µm	82 – 135 µm
Z-Linearity ^{2,5}	0.02% (0.2 µm/mm)	0.01% (0.1 µm/mm)
Z-Repeatability ^{4,5}	1.8 µm	3.8 µm
Weight	Approx. 180 g	Approx. 180 g
Part number	3.002.005	3.002.010

Maximum points / 3D profile	752
Typical scan rate ³	Approx. from 100 Hz up to 500 Hz
Typical 3D point rate ³	Approx. from 0.07 up to 0.3 million points/sec
Interface	Fast Ethernet (100 Mbit/sec)
Inputs	4 x Inputs, 5 – 24 VDC Quadrature Encoder (AB-Channel, RS-422 standard)
Outputs	2 x Outputs, 24 VDC (max. 20 mA)
Trigger	START Trigger support on Input 1 DATA Trigger support on Quadrature Encoder Input (Max. DATA trigger rate: 100 kHz) DATA Trigger support on Input 2, 3 (Max. DATA trigger rate: 10 kHz)
Input voltage Power	24 VDC, ± 15% ripple 4.5 W
Laser wavelength	660 nm
Laser class standard optional	2M –
Maximum ambient light	10,000 lx
EMC test	as per EN 61 000–6–2, EN 61 000–6–4
Vibration / Shock test	as per EN 60 068–2–6, –27, –29, –64
Electrical safety	as per EN 61 010–1–3
Protection class	III, as per EN 61 040–3
Enclosure rating	IP65
Air humidity	Maximum 90%, non-condensing
Temperature operation storage	0 – 40° C –20 – 70° C
Compatible accessories	Power-I/O cable: 6.310.OXX Ethernet cable: 6.302.OXX Encoder cable: 6.307.OXX

- 1 Typical values can vary up to 5% due to optical tolerances
- 2 Z-Linearity calculated as variation of "bias" (reference value vs. measured value) over the measurement range. The %slope of a best-fit line from a plot of bias over measurement range represents Z-Linearity
- 3 Scan rate & point rate are dependent on the configured field of view, measurement range and exposure time. The typical scan/point rate has been estimated with an exposure time of 3 µsec
- 4 Experimentally assessed by scanning a measurement target moving over a conveyor belt 50 times. Measurement performed by averaging height values within the Z-Map image. No post-processing filters applied
- 5 Measurements performed on a SmartRay standard artifact which is an aluminum flat surface painted matte white

