

ShapeDrive G3 Series

HIGH PERFORMANCE 3D SENSORS

SHAPE
DRIVE

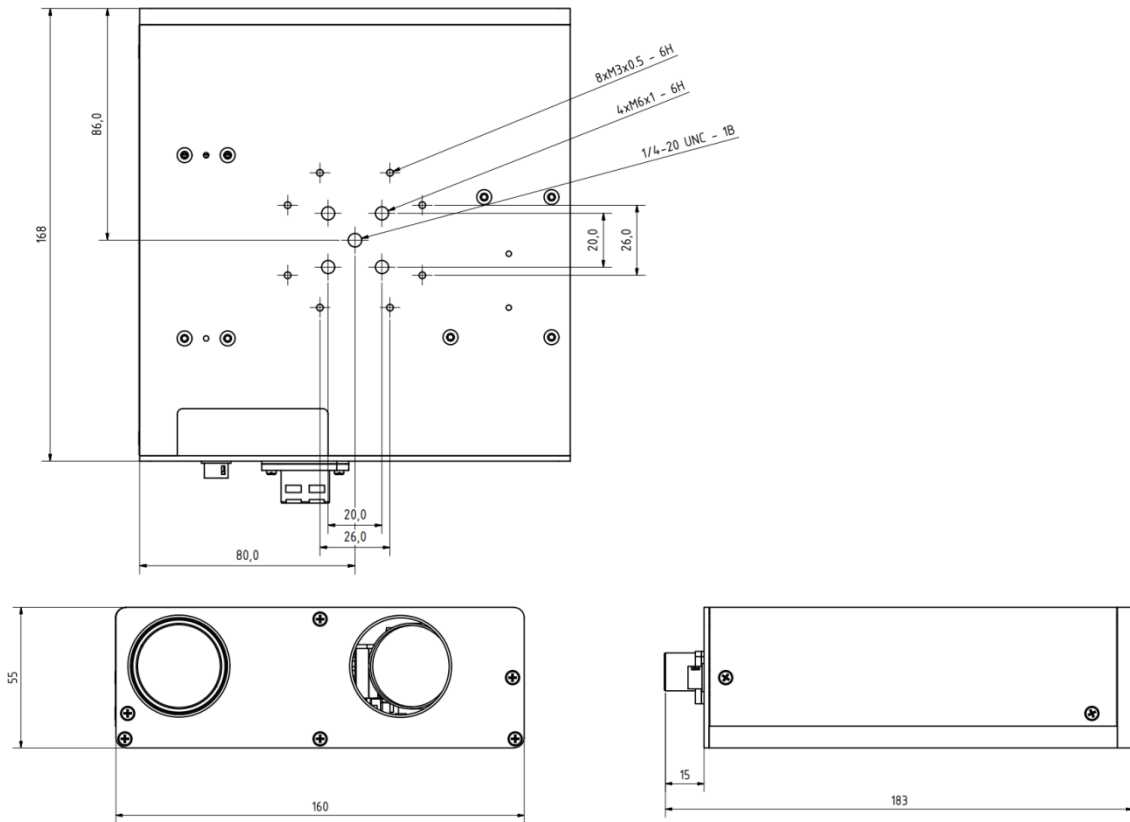
- Up to 22 point clouds per second
- FOV dependent accuracy levels down to 2microns
- FOV from 30x20mm to 500x400mm
- USB3 or GigE Interface

The ShapeDrive® G3 Series are compact, blue light structured light sensors that reliably provide three dimensional shape data at exceptional speed and accuracy. The sensors are designed for quantitative and precise 3D measurements for 100% quality inspection in production lines. The sensor can be connected to a host computer through a USB3 or GigE interface. The G3 Series can operate in camera mode, in 3D mode and in a mixed mode to allow vision engineers to solve for a wide variety of machine vision tasks. Typical applications include e.g. inline inspection of plastic mold parts, consumer goods, electronic parts, casting parts, sheet metal forming, medical, dental, biometric applications and food processing.



	working distance [mm]	measurement volume (WxHxD) [mm]	lateral sampling [um]	Aquisition speed [ms]	Interface	Comment
Regular						
G3-30-180N	180	30x19x5	16	178-340	USB3	
G3-60-180N	180	60x38x40	32	178-340	USB3	
G3-120-350N	350	120x76x100	63	178-340	USB3	
G3-240-350N	350	240x152x120	126	178-340	USB3	
G3-360-500N	500	360x227x300	189	178-340	USB3	
G3-500-600N	600	500x316x500	263	178-340	USB3	
High resolution						
G3-30-180H	180	30x25x5	12	320-630	USB3	
G3-60-180H	180	60x50x40	25	320-630	USB3	
G3-120-350H	350	120x100x100	49	320-630	USB3	
G3-240-350H	350	240x201x120	98	320-630	USB3	
G3-360-500H	500	360x301x300	147	320-630	USB3	
G3-500-600H	600	500x418x400	204	320-630	USB3	
G3-500-900H	910	500x418x300	204	320-630	USB3	
Super high resolution						
G3-30-180SH	180	30x20x5	7	1700-3500	USB3	
G3-60-180SH	180	60x40x40	14	1700-3500	USB3	
G3-120-350SH	350	120x80x100	28	1700-3500	USB3	
G3-240-350SH	350	240x160x120	57	1700-3500	USB3	
G3-360-500SH	500	360x240x300	85	1700-3500	USB3	
G3-500-600SH	600	500x333x400	118	1700-3500	USB3	
G3-500-600SH2	600	500x367x400	122	930	USB3	avail in Q1/2017
High speed						
G3-30-180S	180	30x23x5	47	44	USB3	avail in Q1/2017
G3-60-180S	180	60x45x40	94	44	USB3	avail in Q1/2017
G3-120-350S	350	120x90x100	188	44	USB3	avail in Q1/2017
G3-240-350S	350	240x180x120	375	44	USB3	avail in Q1/2017
G3-360-500S	500	360x270x300	563	44	USB3	avail in Q1/2017
G3-500-600S	600	500x375x400	781	44	USB3	avail in Q1/2017
Cost optimized						
G3-60-180L	180	60x45x40	94	800	USB3	
G3-240-350L	350	240x152x120	126	800	USB3	
G3-360-500L	500	360x200x110	189	800	USB3	
GigE						
G3-30-180-GigE	180	30	16	1250	GigE	avail in Q1/2017
G3-60-180-GigE	180	60	32	1250	GigE	avail in Q1/2017
G3-120-350-GigE	350	120	63	1250	GigE	avail in Q1/2017
G3-240-350-GigE	350	240	126	1250	GigE	avail in Q1/2017
G3-360-500-GigE	500	360	189	1250	GigE	avail in Q1/2017
G3-500-600-GigE	600	500	263	1250	GigE	avail in Q1/2017

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NOTES:

- (1) DIMENSIONS IN MM
- (2) THE FRONT PANEL MAY LOOK DIFFERENT FOR EACH MODEL. THE MODEL SHOWN IS THE G3-360-500N

COMMON SPECIFICATION

- Data output: binary, ascii, stl, depth map, other formats upon request
- Software: C++ SDK, COM interface, Halcon® interface, Polyworks interface, Reshaper 3D, Matlab® interface, upon request: Labview® I/F and Linux versions
- Blue LED, digital projection
- Small footprint, low weight
- Scalable (multi-sensor arrangement)
- Perfect for robot integration and customer specific applications
- Optional I/O (Trig In/Out, RS-232 I/F)
- Power requirements: 12V/5A via power supply 100-240V AC
- Humidity: 0-95%, non condensing
- Ambient temperature: 0-40°C
- Weight: 1550g
- Complies with CE, DIN EN61326-1, DIN EN61326-2



HEADQUARTERS

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DISTRIBUTORS

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 China : Shenzhen Innovation Technology (T: 86-13006669008)
 Japan: Linx Corporation (www.linx.jp)
 Israel: Sela Electronic Systems Ltd. (T: +972-364 800 61)
 Korea: Teknix (www.teknix.co.kr), Cyrod Co., Ltd. (www.cyrod.com)
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