



## C5-1280CS

The World's fastest 3D Compact Sensors

3D Sensor Heads based on Laser Triangulation

Profile Speed up to 200 kHz

Profile Resolution up to 1280 Points / Profile

Integrated High Precision 3D Profile Algorithms

Enhanced 3D Imaging with HDR-3D Technology

Ruggedized Enclosure (IP67)

GigE Vision and GenICam Compliant

Flexible Trigger Interface

Sophisticated 3D Scan Features like Autostart,  
Automatic AOI-Tracking, Multiple AOIs, etc.



# C5-1280CS

General Specifications		Specification Description					
Profile Speed	Up to 200kHz						
Profile Resolution	688 to 1280 Points / Profile <small>(variable)</small>						
Interface	GigE Vision / GenICam						
Dynamic Range	90 dB <small>(with HDR-3D)</small>						
Connectors	M12						
Protection Class	IP67						
Laser Safety Class	2M, 3R, 3B						
Sensor Algorithm	MAX, TRSH, COG, FIR-PEAK						
Digital I/Os	Opto-Isolated Inputs (2x) / Outputs (2x), Laser Safety, Trigger, Encoder (RS442)						
Power Supply	10 - 24V DC						
PC Requirements	Gigabit Ethernet NIC						
Software Application Environments	Configuration Tool CX-Explorer, GenICam API, CVB, NI-IMAQ, HALCON, MIL, VisionPro, MATLAB, EyeVision, GOM, etc.						
Model Name	FOV [mm]	Z-Range [mm]	Working Distance [mm]	Lateral Resolution [ $\mu\text{m}$ ]	Height Resolution [ $\mu\text{m}$ ]	Linearity [% of Z-Range]	Repeatability [ $\mu\text{m}$ ]
C5-1280CS35-7	7	5,2	31	5	0.11	$\pm 0.05$	0.5
C5-1280CS25-20	20	20	72	16	0.5	$\pm 0.05$	0.5
C5-1280CS21-40	40	46	90	31	1.2	$\pm 0.05$	0.5

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