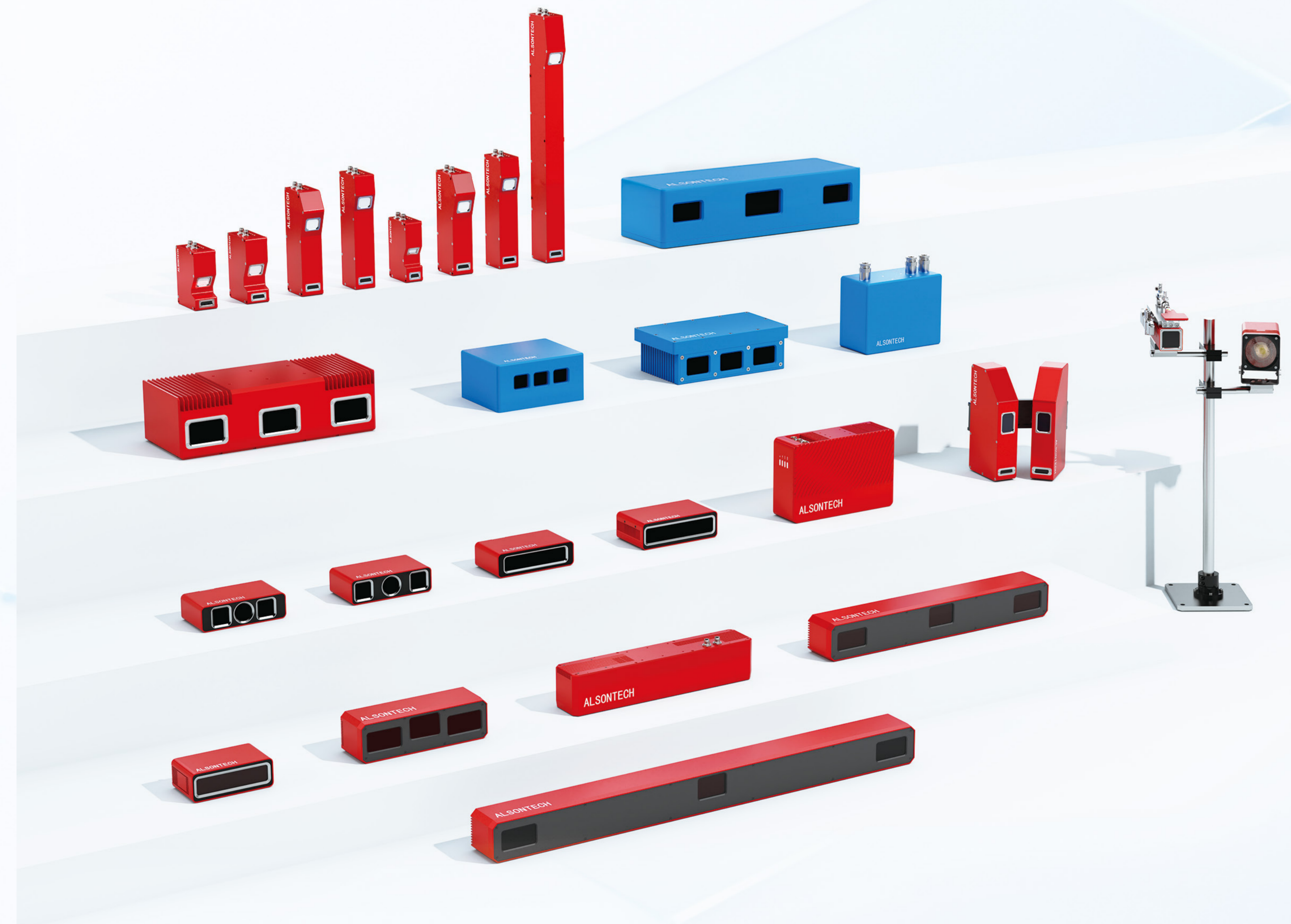




ALSONTECH

www.alsontech.com
info@alsontech.com
+86-0371-88915519

ALSONTECH all rights reserved. Subject to change without notice.



LinkedIn



YOUTUBE

ALSONTECH

Leading 3D Robotic Vision Solution Provider

About ALSONTECH

ALSONTECH, founded in 2014, is committed to advancing the application of 3D vision technology in the global industrial sector. Our vision is to become a leading global provider of industrial 3D vision solutions, focusing on delivering stable, reliable, and intelligent products.

Core technologies at ALSONTECH include hardware structure, optics, intelligent algorithms, and robot motion control. Through continuous innovation, the company has developed a comprehensive product line of industrial 3D cameras featuring technologies such as laser imaging and structured light imaging. These products are known for their wide compatibility and capabilities in outdoor imaging, high-temperature thermal imaging, explosion-proof structures, and custom special-purpose 3D cameras. Serving as the eyes and brain of industrial robots, our 3D vision systems empower automation across diverse industries—enabling customers to build intelligent, flexible, and truly lights-out factories.

Focused on industry-specific solutions and dedicated service, ALSONTECH's 3D vision products and solutions have been widely deployed by leading global automotive OEMs and tier suppliers, semiconductor manufacturers, as well as enterprises across steel, construction machinery, forging and casting, 3C electronics, home appliances, sanitary ware, food packaging, warehousing and logistics, special equipment, aerospace, shipbuilding and defense, and academic research sectors.

5000+
No. of Projects Delivered

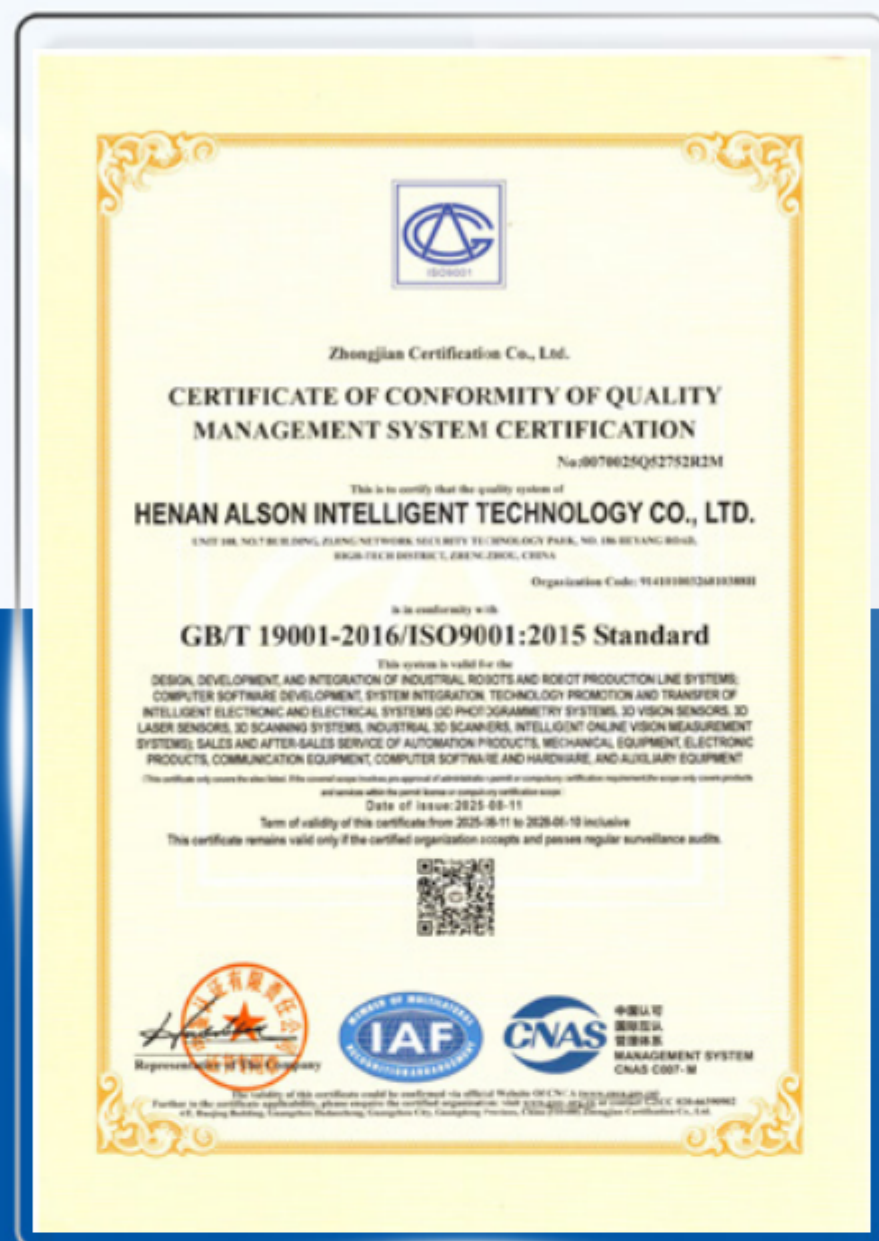
12000+
No. of Products Delivered

Qualifications & Certifications

Patents & Intellectual Property
280+



ISO45001



ISO9001



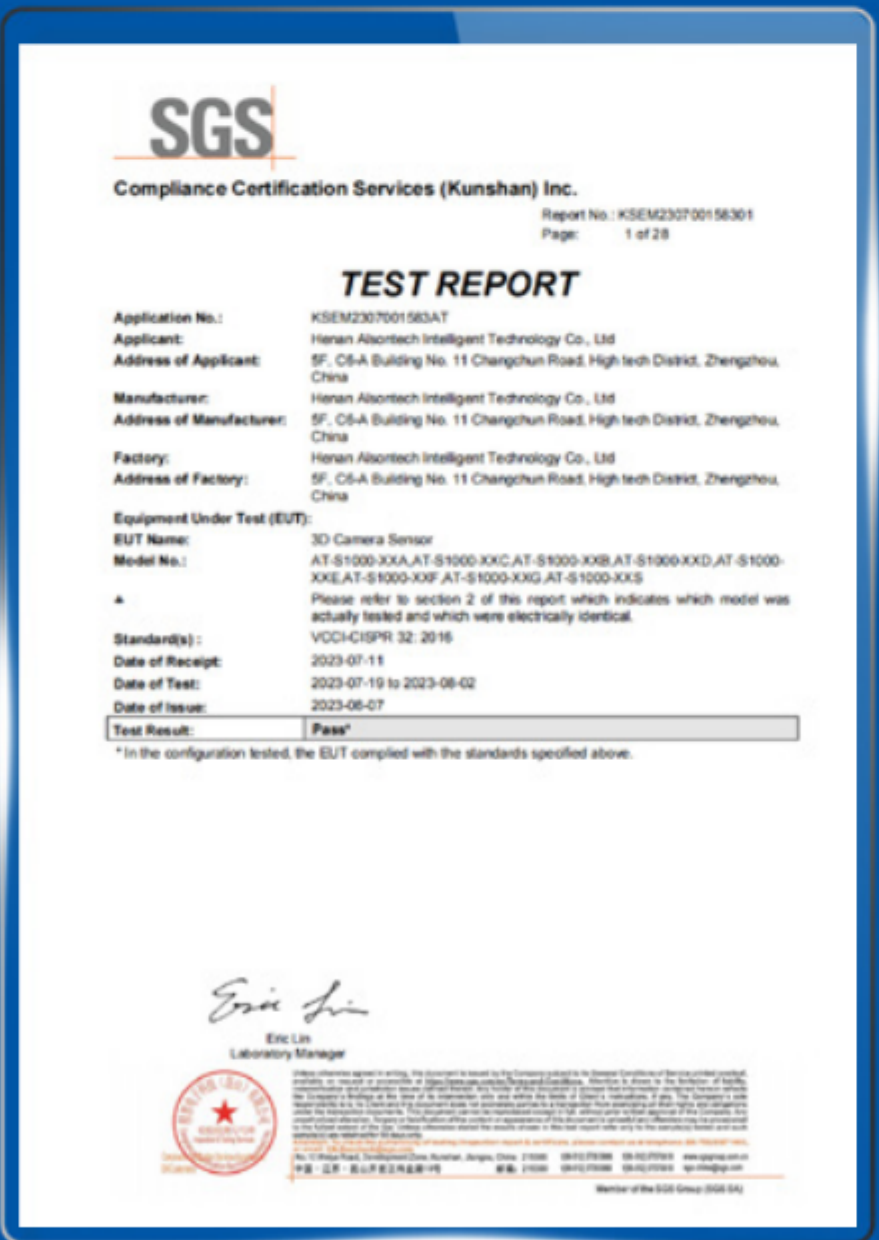
ISO14001



CE



FCC



VCCI



KC

Customers



Industrial-Grade 3D Camera

ALSONTECH has independently developed an industrial 3D camera product line centered on core technical routes such as laser imaging and structured light imaging.It also possesses the custom development capability for various special 3D cameras, including outdoor imaging, high-temperature red-hot part imaging, and explosion-proof structure models, with stable and reliable imaging performance.



High precision & high speed, delivering high-quality point cloud data.



Rich product lines support wide compatibility and full vision coverage.



Strict quality control and fine materials ensure stable industrial-grade reliability.



IP67 high protection rating for long-term continuous operation in industrial sites.



Outstanding imaging for both highly reflective and black light-absorbing materials.



Strong resistance to bright ambient light fits indoor and outdoor applications well.

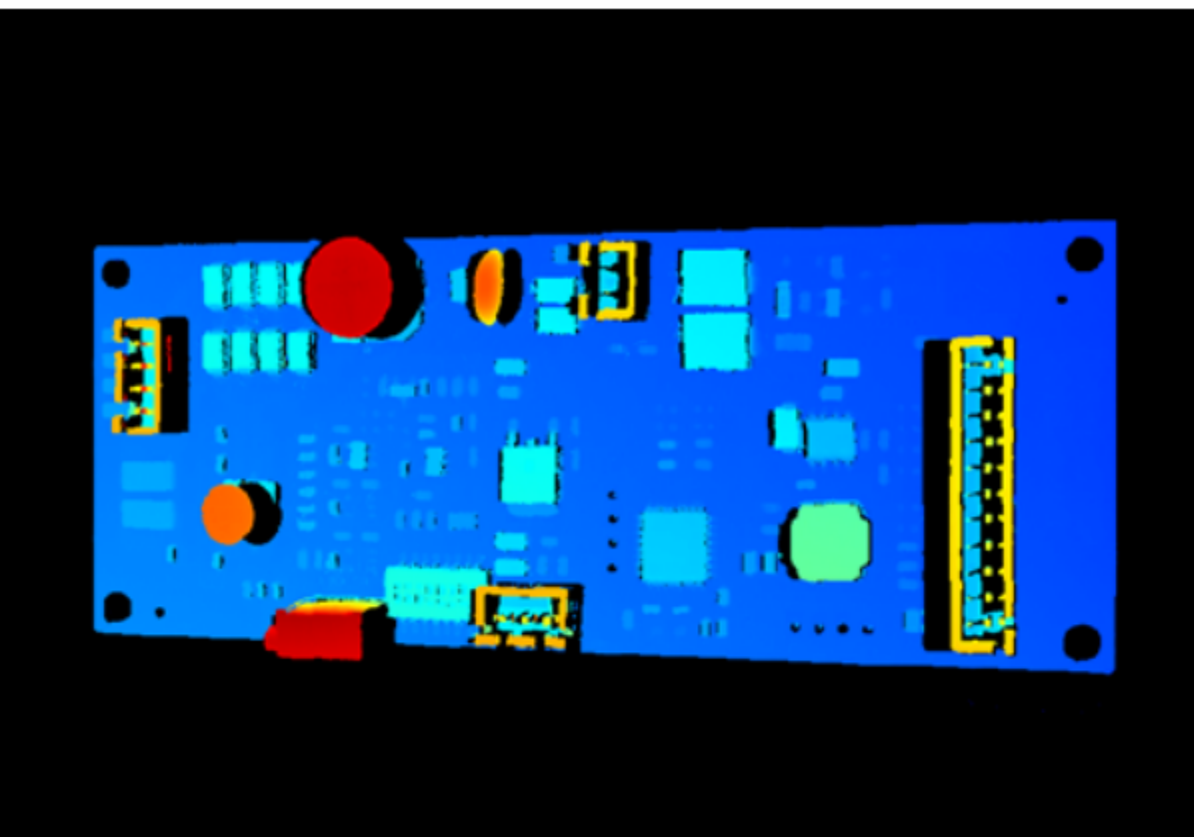


Various mounting and great anti-vibration allow fast and flexible deployment.

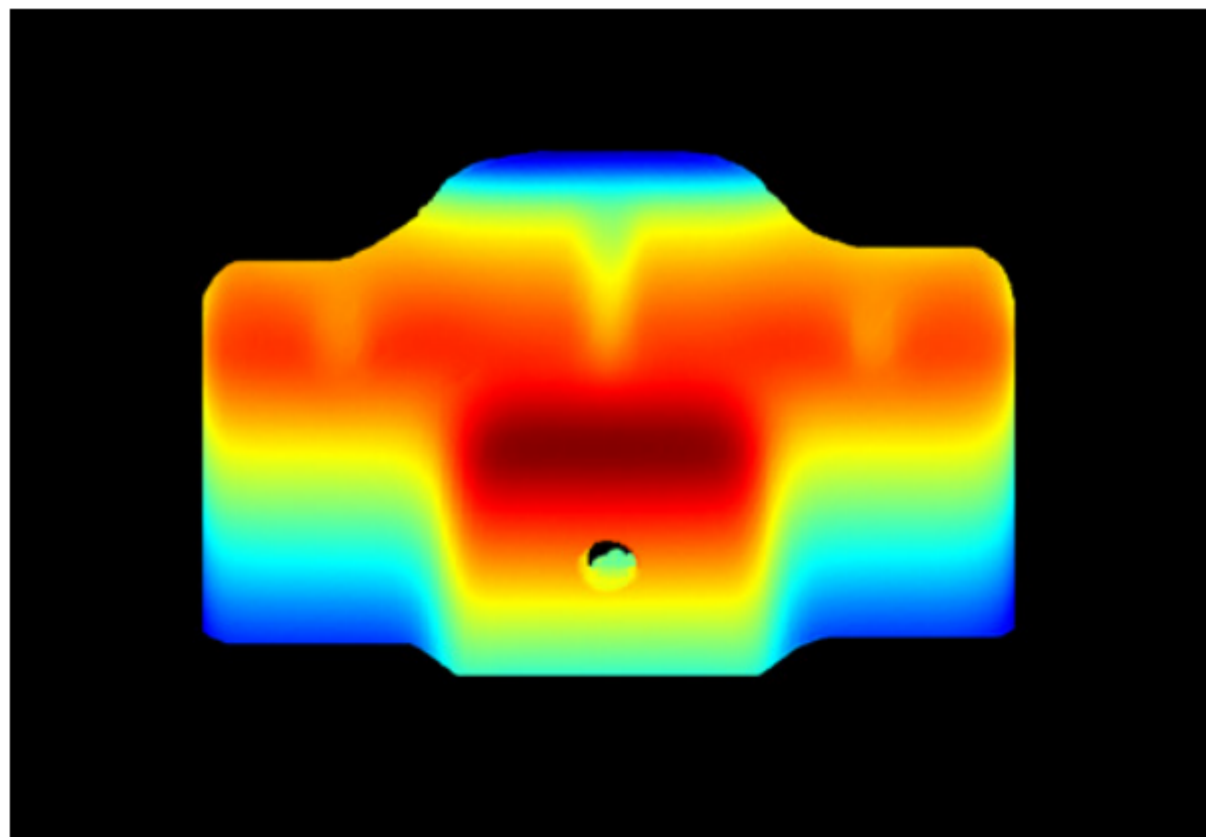


Cut tooling and mechanism costs and bring high ROI for flexible line upgrades.

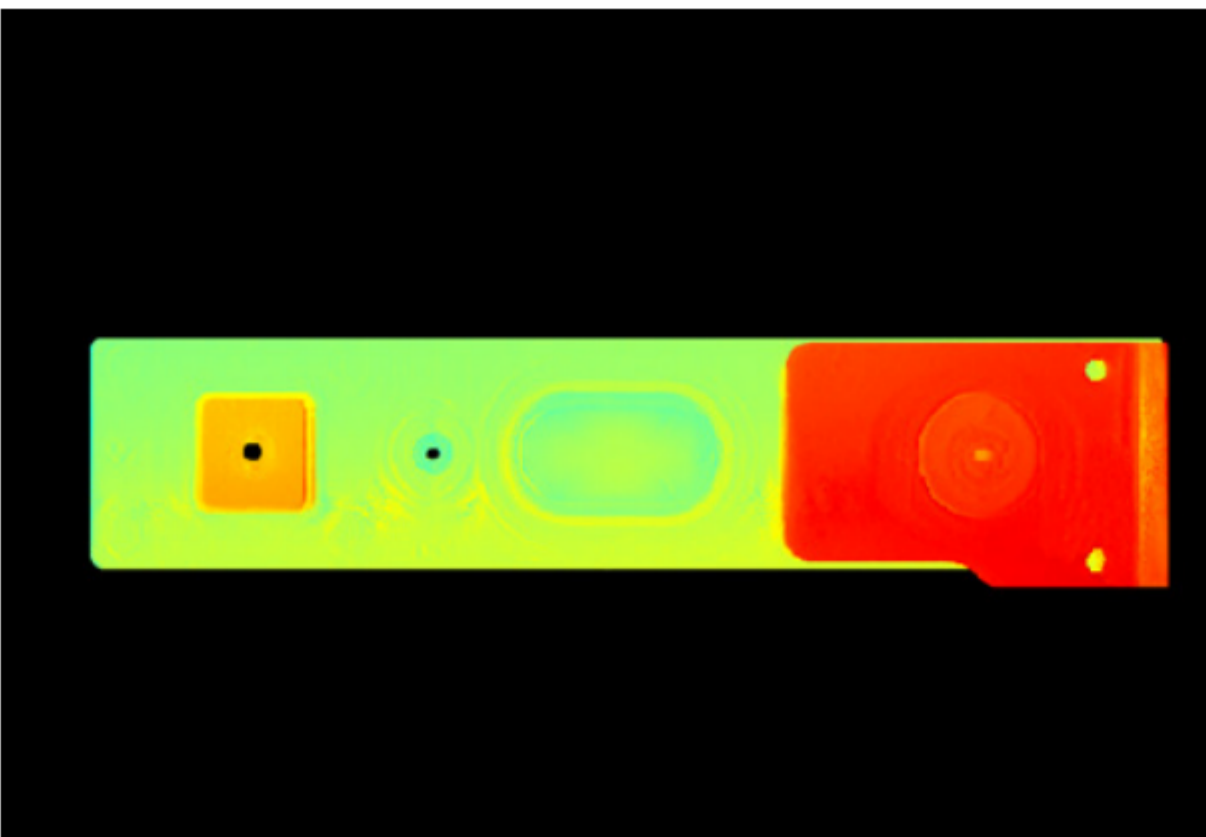
3D Point Cloud Imaging Effect



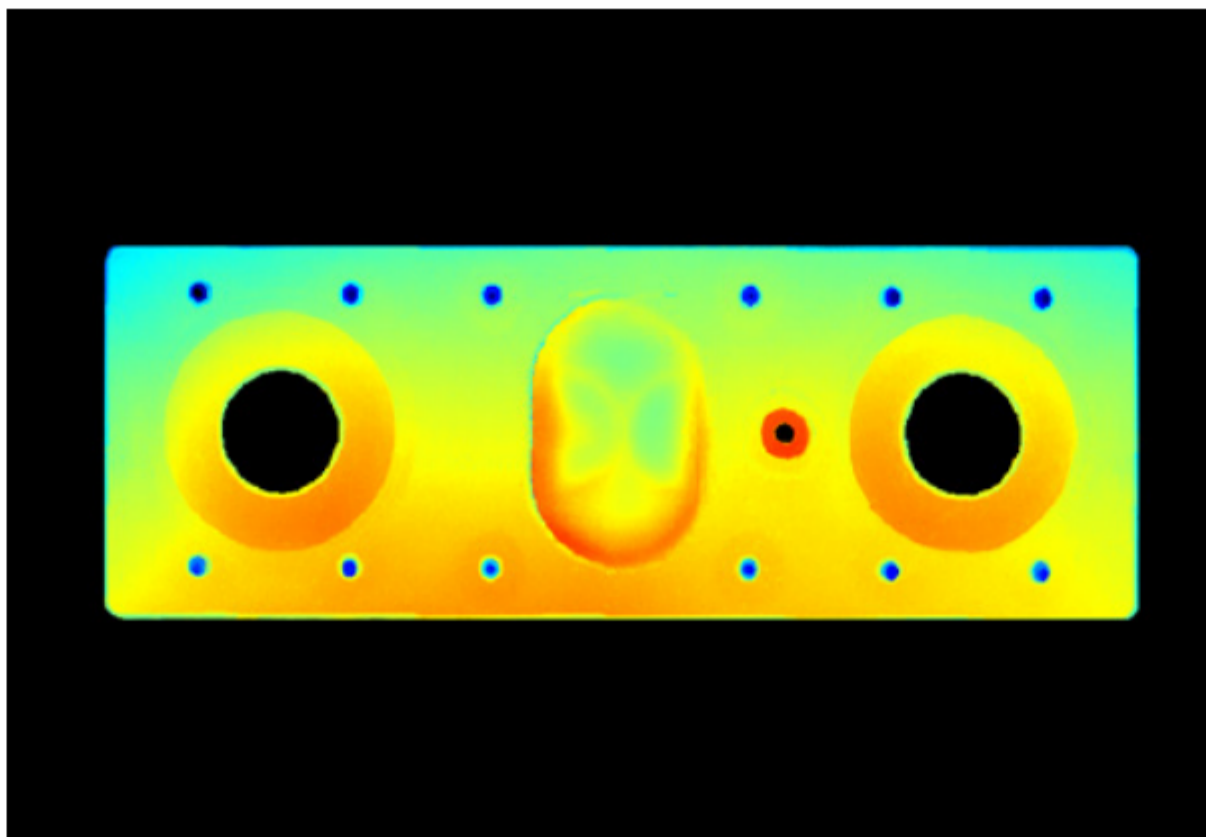
PCB Board



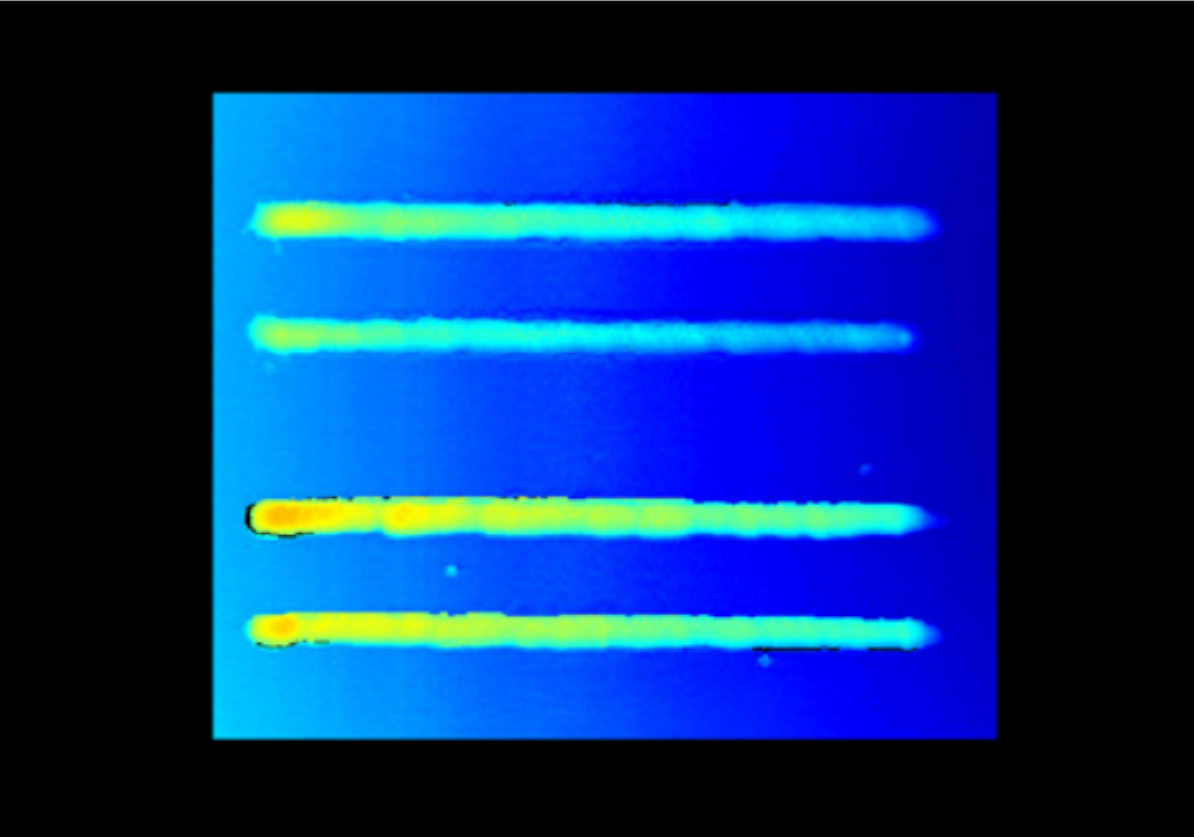
Stamped Parts



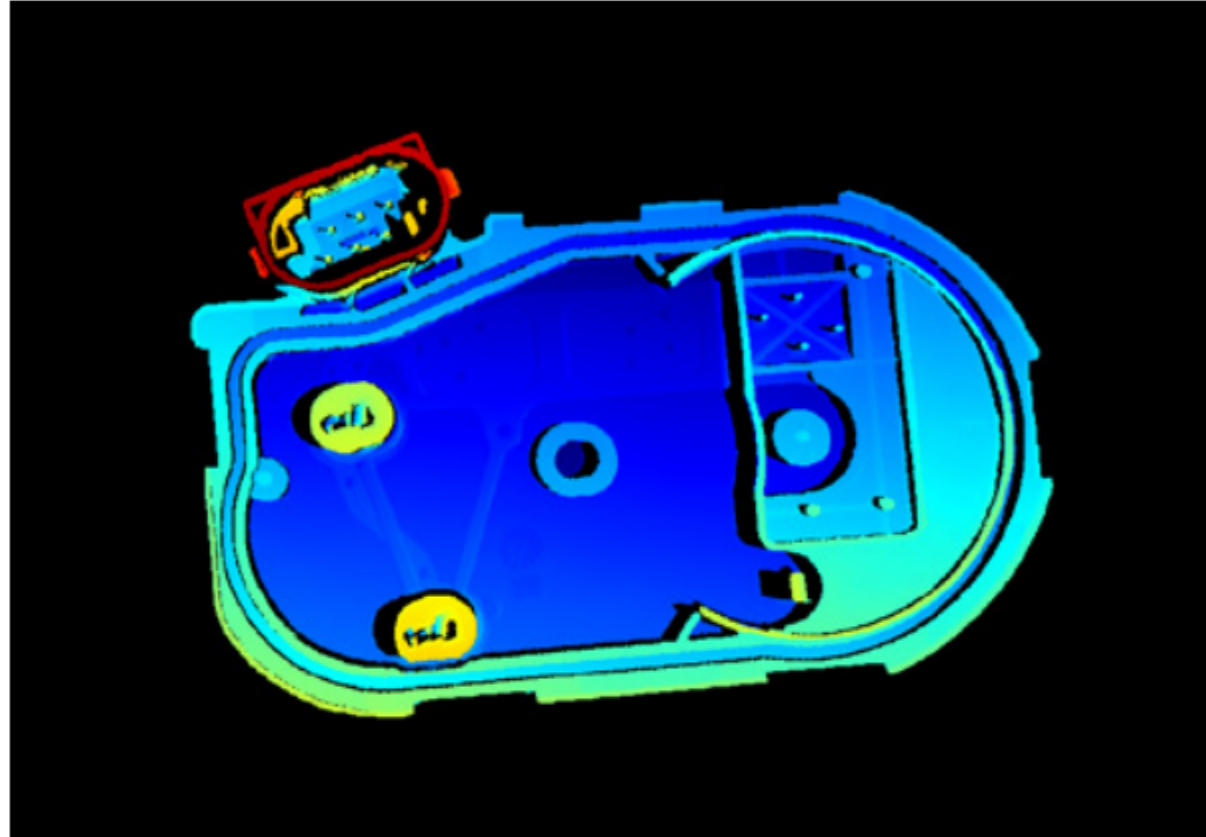
Battery Module



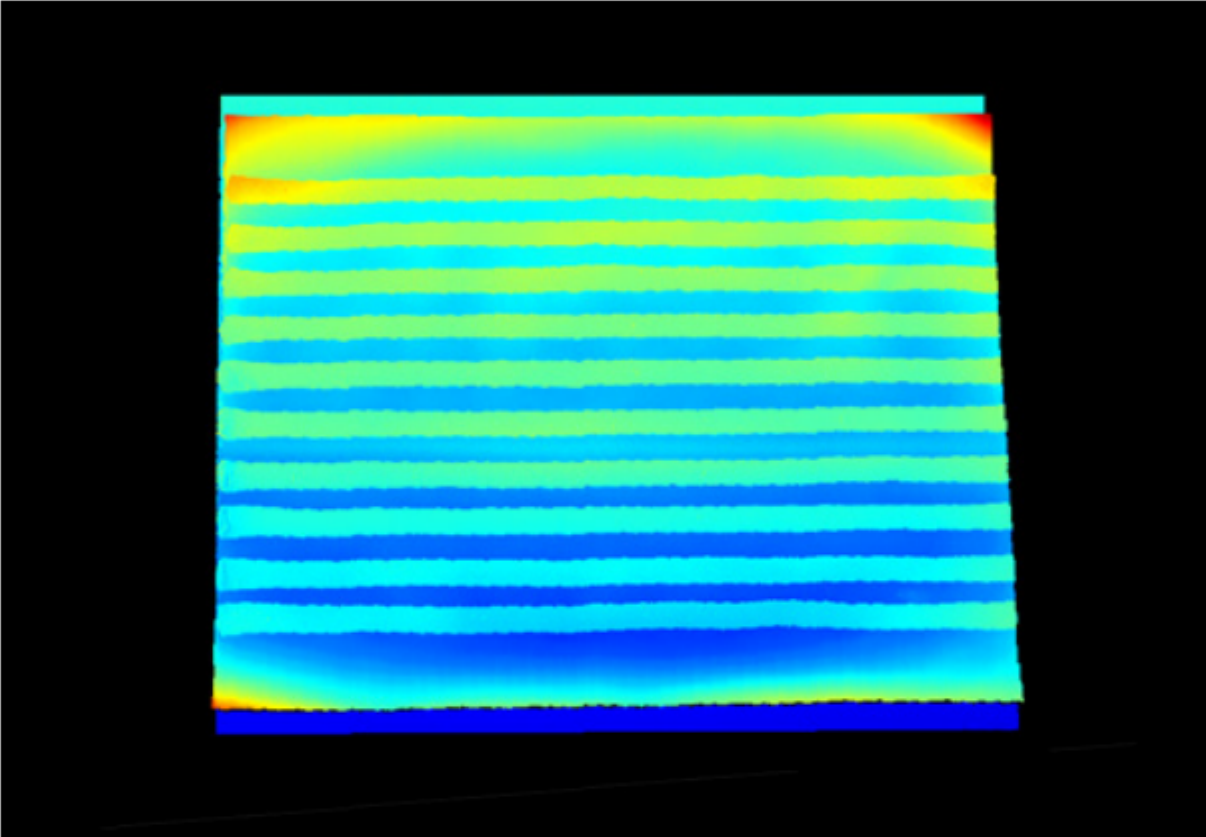
Battery Module



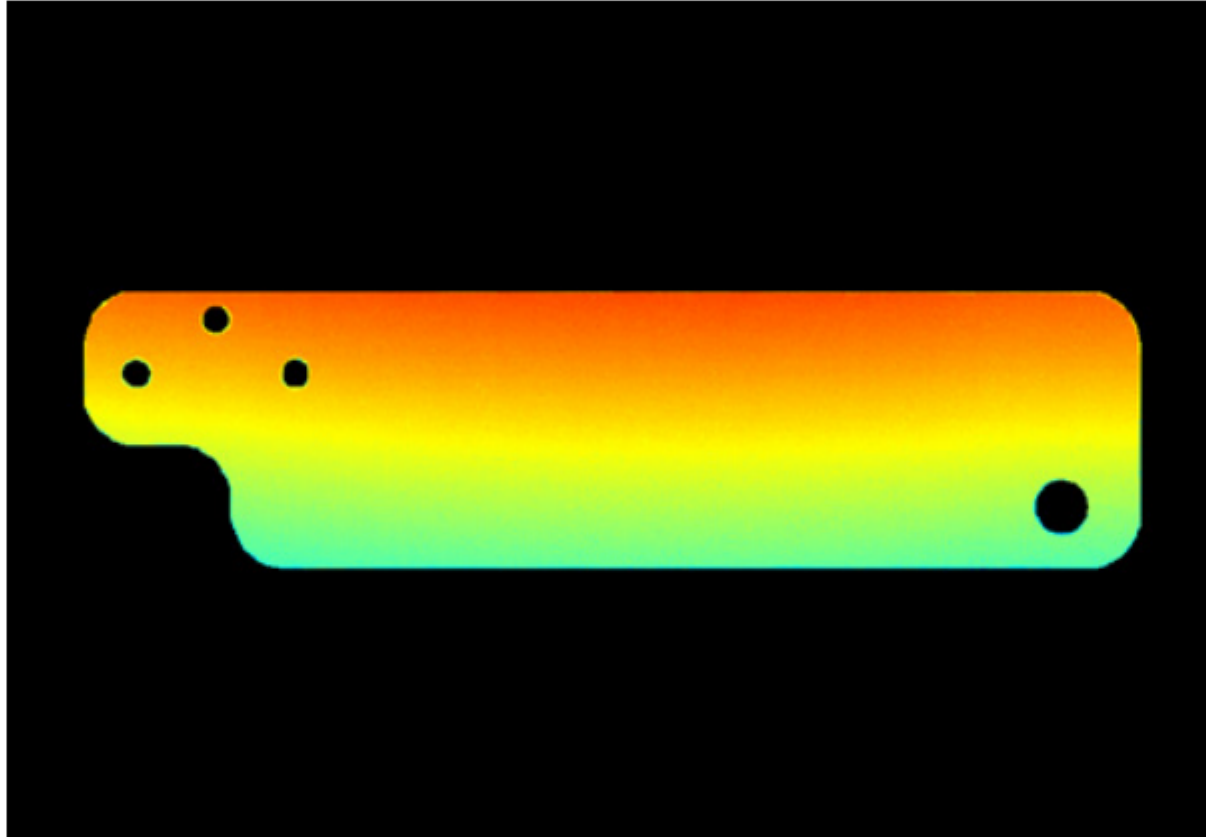
Steel Plate Weld Seam



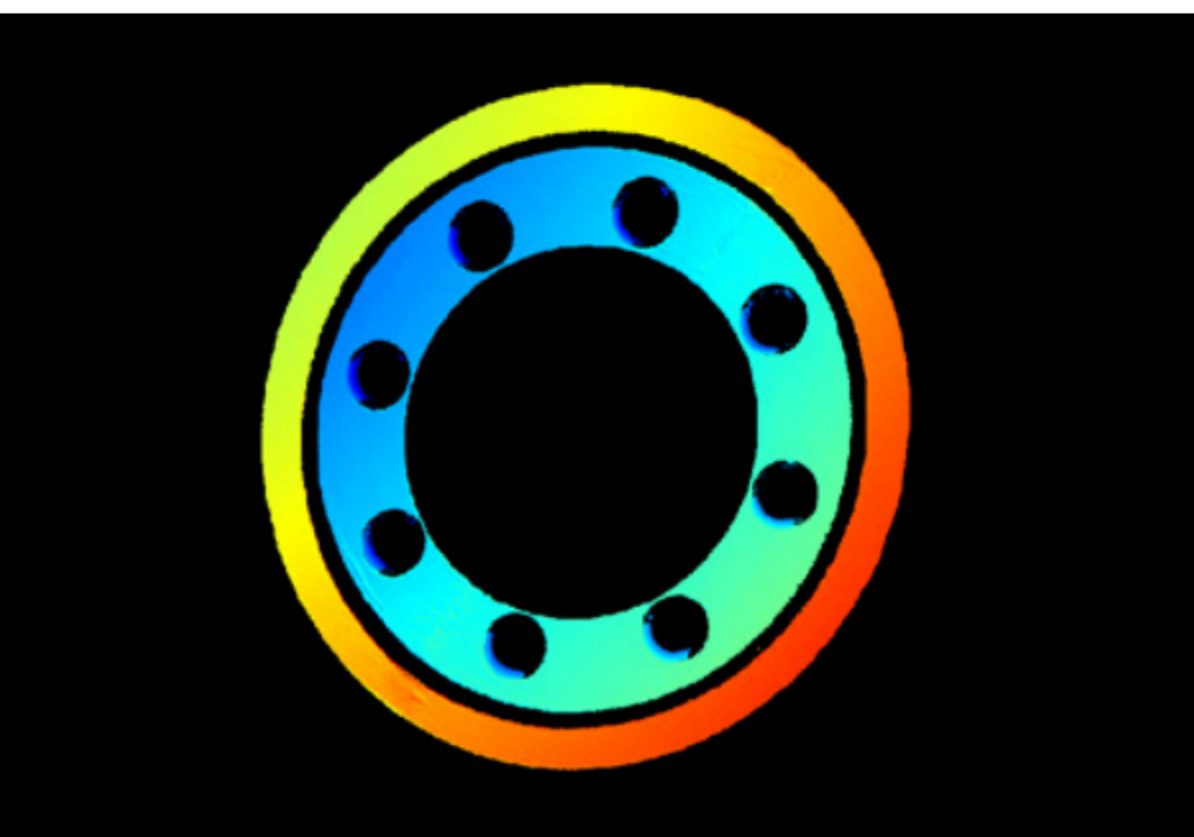
Black Injection-molded Parts



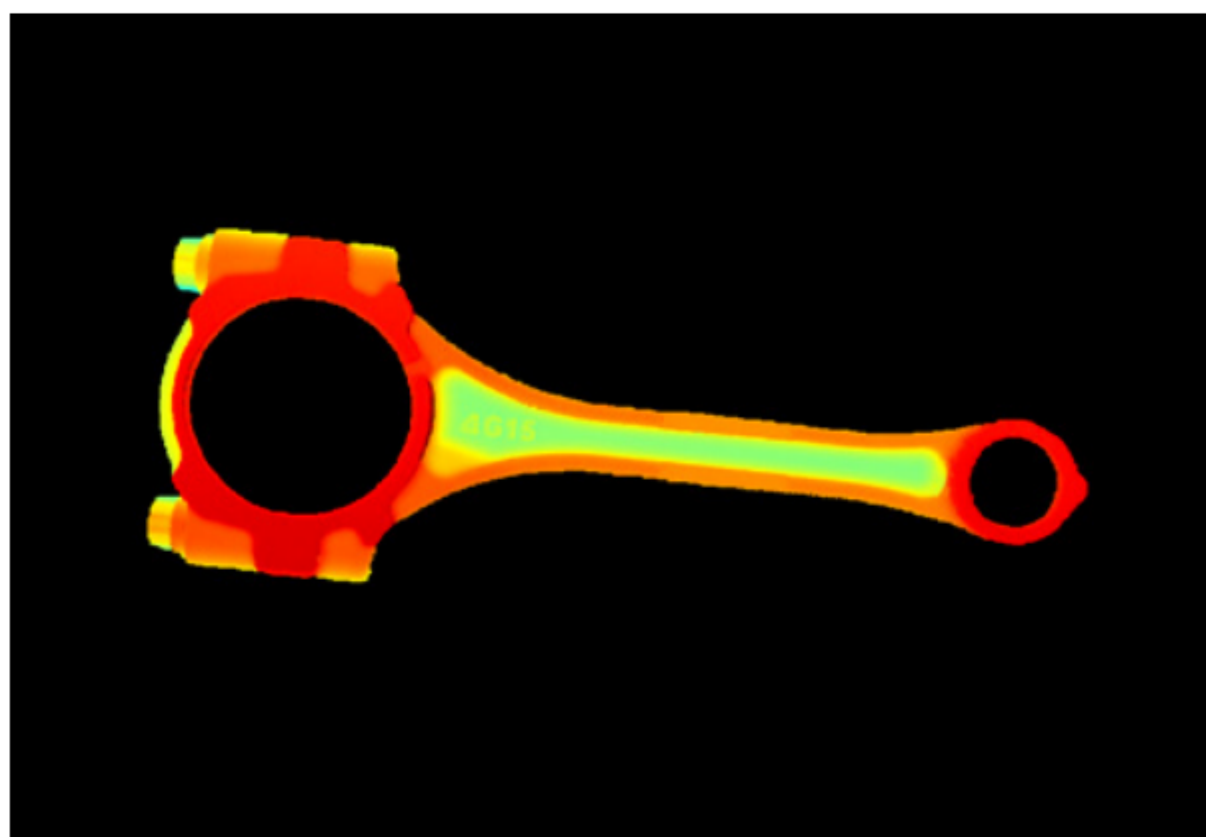
Black Sealing Strip



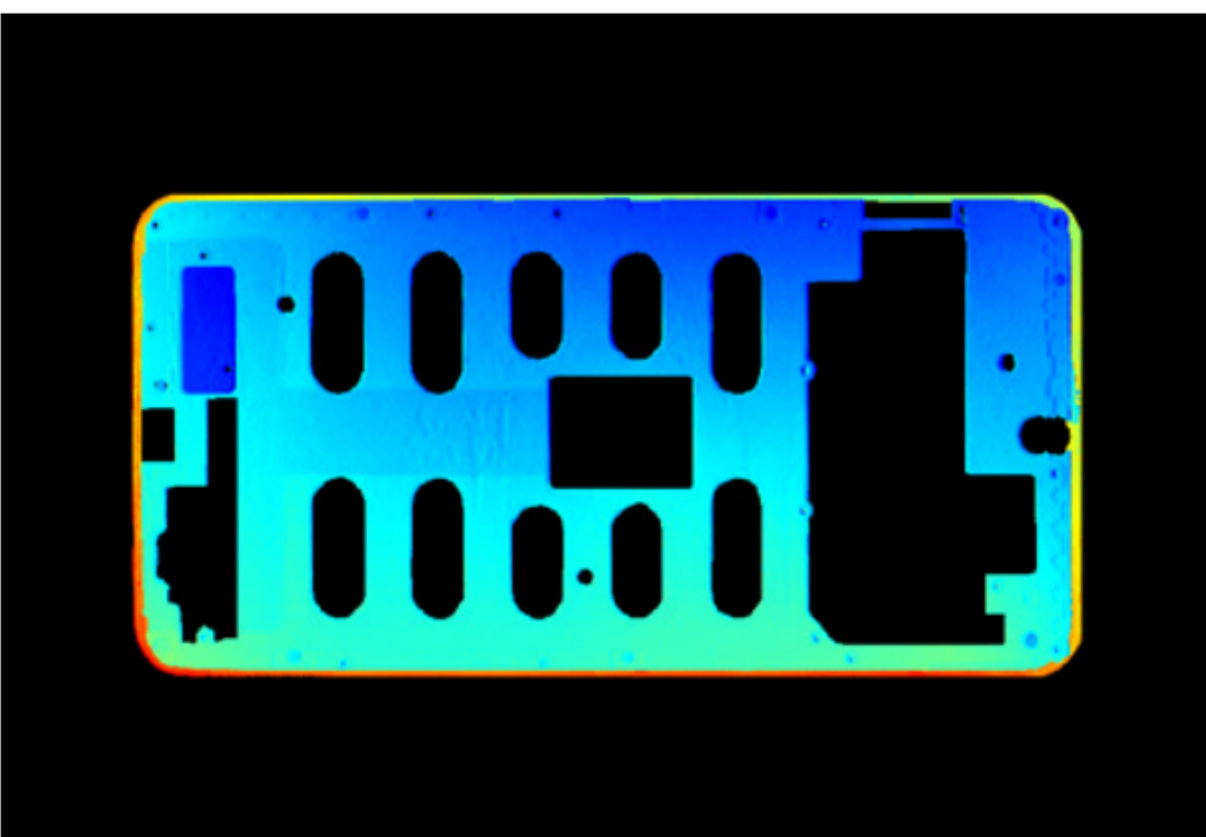
Matte Metal Sheet



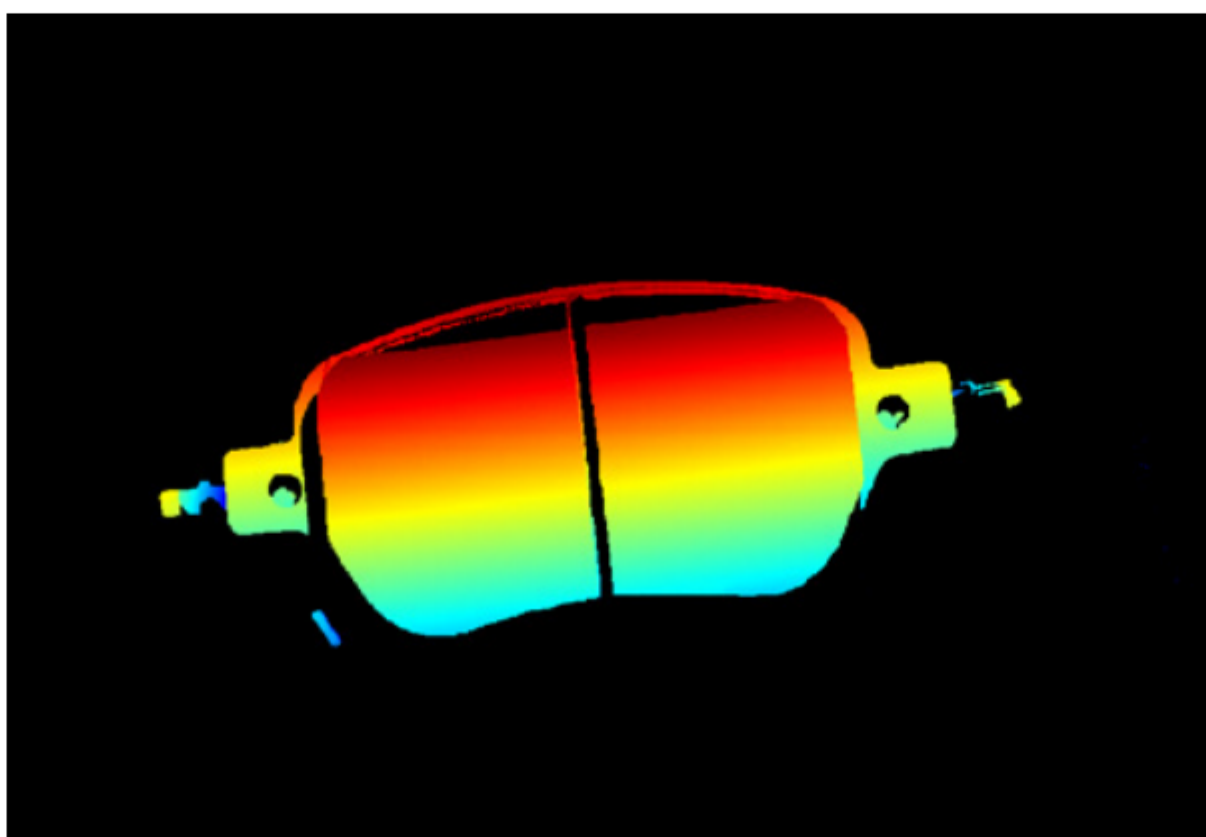
Reflective Steel Flange



Cast Engine Connecting Rod



Mobile Phone Back Cover



Brake Pad

AT-S1000-06A Series

This series features laser line imaging, enabling recognition and positioning of colored and highly reflective workpieces under complex lighting. Boasting high dynamic range, it captures high-quality point clouds at high speed with simultaneous RGB output. IP67-rated, it ensures stable, reliable operation in harsh industrial and outdoor environments.



Standard Version	AT-S1000-06A-S1-M	AT-S1000-06A-S2-C	AT-S1000-06A-S3-C	AT-S1000-06A-S4-C	AT-S1000-06A-S5-C
Calibration distance(mm)	550	1000	1550	2100	2500
Working distance(mm)	300~800	500~1500	900~2200	1200~3000	1600~3500
Proximal vision(mm)	200×310	300×500	600×900	800×1200	1100×1400
Distant vision(mm)	580×830	1000×1500	1400×2200	2000×2800	2400×2900
VDI/VDE accuracy(mm)	0.190@550	0.300@1000	0.400@1550	0.450@2100	0.450@2500
Depth map resolution(px)	2024×2662				
RGB resolution(px)	/	3000×4000 1500×2000			
Typical capture time(s)	0.5~0.9				
Laser class	Class 2				
Dimensions(LxWxH, mm)	169×95×59	285×88×85	440×88×85	600×85×85	998×85×85
Weight(kg)	1.3	2.5	3.2	3.6	6
Connector(IPC)	GigE				
Output result	3D coordinates and posture information X,Y,Z,Rx,Ry,Rz				
Operation temperature(°C)	-10~45	-10~50			
Storage temperature(°C)	20%~90%RH(no condensation)				
IP rating	IP67				
Illuminance(Lux)	200000				
Material number	3.01.01.05.002	3.01.01.05.014	3.01.01.05.010	3.01.01.05.004	3.01.01.05.008

Wide FOV Version	AT-S1000-06A-S1-M	AT-S1000-06A-S2-C	AT-S1000-06A-S3-C	AT-S1000-06A-S4-C	AT-S1000-06A-S5-C
Calibration distance(mm)	550	1000	1550	2100	2500
Working distance(mm)	300~800	500~1500	900~2200	1200~3000	1600~3500
Proximal vision(mm)	310×330	400×600	900×1100	1100×1300	1600×2000
Distant vision(mm)	780×900	1300×1900	1900×2900	2600×3300	3200×4000
VDI/VDE accuracy(mm)	0.240@550	0.400@1000	0.500@1550	0.600@2100	0.600@2500
Depth map resolution(px)	2024×2662				
RGB resolution(px)	/	3000×4000 1500×2000			
Typical capture time(s)	0.5~0.9				
Laser class	Class 2				
Dimensions(LxWxH, mm)	169×95×59	285×88×85	440×88×85	600×85×85	998×85×85
Weight(kg)	1.3	2.5	3.2	3.6	6
Connector(IPC)	GigE				
Output result	3D coordinates and posture information X,Y,Z,Rx,Ry,Rz				
Operation temperature(°C)	-10~45	-10~50			
Storage temperature(°C)	20%~90%RH(no condensation)				
IP rating	IP67				
Illuminance(Lux)	200000				
Material number	3.01.01.05.001	3.01.01.05.013	3.01.01.05.009	3.01.01.05.005	3.01.01.05.007

For more products and detailed specifications, please visit the official ALSONTECH website: www.alsontech.com.

AT-S1000-0XC Series

This series adopts grating structured light imaging technology with outstanding point cloud accuracy. It can capture fine, complete and highly detailed point cloud data for various typical workpieces. Featuring stable structure, excellent performance and easy maintenance, it meets the high stability requirements of visual positioning systems for long-term continuous industrial production.



Product Model	AT-S1000-01C-H				AT-S1000-02C-E		AT-S1000-06C-S2-V2	
Calibration distance(mm)	800	1300	2000	2500	1150	1500	600	1000
Working distance(mm)	560~1040	910~1690	1400~2600	1750~3250	800~1500	1050~1950	400~800	700~1300
Proximal vision(mm)	640×430	950×640	1430×960	1790×1200	370×690	500×900	390×220	630×400
Distant vision(mm)	950×780	1590×1170	2650×1800	3330×2240	680×1260	920×1690	760×430	1050×740
VDI/VDE accuracy(mm)	0.327@800	0.450@1300	0.513@2000	0.600@2500	0.218@1150	0.460@1500	0.192@600	0.480@1000
Resolution(px)	1920×1200				1920×1200		1920×1200	
Typical capture time(s)	0.6~1				0.6~1		0.6~1	
Dimensions(LxWxH, mm)	470×200×140				280×185×86.3		189×102×55	
Weight(kg)	9.2				4		1.2	
Connector(IPC)	RS232 GigE				GigE		RS232 GigE	
Output result	3D coordinates and posture information X,Y,Z,Rx,Ry,Rz							
Operation temperature(°C)	0~50							
Storage temperature(°C)	20%~90%RH(no condensation)				20%~90%RH(no condensation)		0%~80%RH(no condensation)	
IP rating	IP65				IP67		IP65	
Illuminance(Lux)	60000							
Material number	3.01.03.01.044	3.01.03.01.045	3.01.03.01.046	3.01.03.01.047	3.01.03.05.002	3.01.03.05.003	3.01.03.02.006	3.01.03.02.014

Product Model	AT-S1000-05C-S2-M-V1	AT-S1000-06C-S3-V2	AT-S1000-07C-S1-V2	AT-S1000-07C-S2-V2	AT-S1000-07C-S3
Calibration distance(mm)	650	450	250	350	100
Working distance(mm)	400~900	300~600	200~300	300~400	87~112
Proximal vision(mm)	420×260	290×170	110×70	175×105	45×42
Distant vision(mm)	870×570	560×320	155×110	210×130	70×49
VDI/VDE accuracy(mm)	0.180@650	0.162@450	0.036@250	0.060@350	0.013@100
Resolution(px)	1936×1464	1920×1200	1920x1200	1920x1200	2448x2048
Typical capture time(s)	0.6	0.6~1			
Dimensions(LxWxH, mm)	198×110×62	145×101.5×51	189×102x55	189x102x55	189x101.5x55
Weight(kg)	1.5	1.2	1.3	1.3	1.3
Connector(IPC)	GigE	RS232 GigE			RS232 USB3.0
Output result	3D coordinates and posture information X,Y,Z,Rx,Ry,Rz				
Operation temperature(°C)	-10~45	0~50			
Storage temperature(°C)	20%~90%RH(no condensation)	0%~80%RH(no condensation)			
IP rating	IP67	IP65			
Illuminance(Lux)	60000				
Material number	3.01.03.02.029	3.01.03.02.007	3.01.03.03.012	3.01.03.03.013	3.01.03.03.010

For more products and detailed specifications, please visit the official ALSONTECH website: www.alsontech.com.

3D Laser Profiler

This series performs high-frame-rate dynamic scanning on various typical workpieces and outputs micron-level 3D point clouds and depth data in real time. It is equipped with rich I/O interfaces, enabling seamless connection with robot controllers, PLCs and other control systems for dynamic positioning, measurement, inspection and other industrial applications.



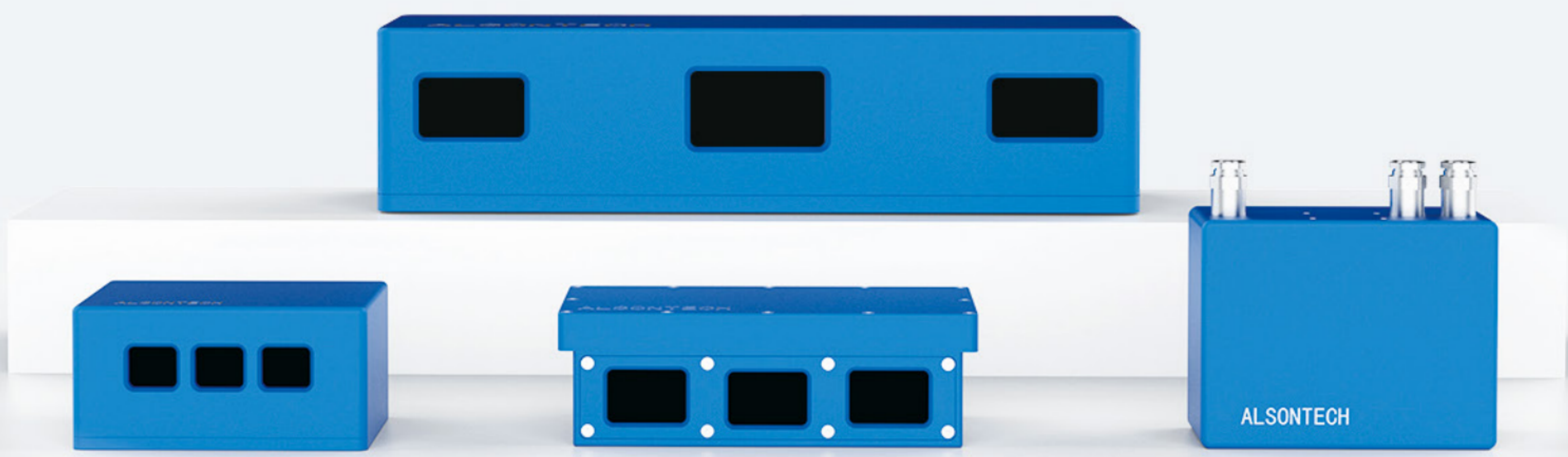
Product Model	AT-S1000-04B-S100	AT-S1000-04B-S600	AT-S1000-04B-S1500	AT-S1000-04B-S1500-W
Dimensions(LxWxH, mm)	145×90×44	247.5×100×54.5	272×84×52	600×87×53
Weight(kg)	0.7	1.2	1.1	2.2
Laser class	Class 2M	Class 2M	Class 3B	Class 3B
FOV(mm)	26~32	225~650	327~2137	670~1940
Clearance distance(mm)	81	300	325	568
Measuring range(MR)(mm)	25	780	2105	1560
FPS(Hz)	300~4000			
Contour points	2048			
Resolution X(μm)	12~15	120~310	160~1040	350~950
Repeatability Z(μm)	0.4	3.5	12	5
Linearity Z(+/- % of MR)	0.006%	0.01%	0.04%	0.02%
Connector(IPC)	GigE			
IO Port	12-pin M12 connector provides power and IO: 2 encoder interfaces, 1 isolated input, 1 isolated output, 1 RS232 serial port			
Output result	2D image/contour/point cloud			
Operation temperature(°C)	0~50			
IP rating	IP67			
Material number	3.01.02.04.004	3.01.02.04.002	3.01.02.04.003	3.01.02.04.005

Product Model	AT-S1000-07B-S100	AT-S1000-07B-S125	AT-S1000-07B-S600	AT-S1000-07B-S1500
Dimensions(LxWxH, mm)	137×100×55	153×100×55	247.5×100×54.5	272×84×52
Weight(kg)	0.85	0.9	1.2	1.2
Laser class	Class 2M	Class 2M	Class 2M	Class 3B
FOV(mm)	24~30	55~90	180~420	300~1290
Clearance distance(mm)	54	80	350	335
Measuring range(MR)(mm)	21	75	520	1420
FPS(Hz)	1500~9000			
Contour points	3200			
Resolution X(μm)	7.5~9	17~28	56~130	93~403
Repeatability Z(μm)	0.3	0.8	2.25	12
Linearity Z(+/- % of MR)	0.006%	0.01%	0.06%	0.04%
Connector(IPC)	GigE			
IO Port	12-pin M12 connector provides power and IO: 2 encoder interfaces, 1 isolated input, 1 isolated output, 1 RS232 serial port			
Output result	2D image/contour/point cloud			
Operation temperature(°C)	0~50			
IP rating	IP67			
Material number	3.01.02.07.002	3.01.02.07.004	3.01.02.07.003	3.01.02.07.001

For more products and detailed specifications, please visit the official ALSONTECH website: www.alsontech.com.

Explosion-Proof
3D Camera

This series is designed for explosive-proof environments with high dust and heavy oil vapor. All products have obtained explosion-proof certification and comply with relevant explosion-proof standards, ensuring safe and reliable operation for users.



Product Model	AT-S1000-01A-D			AT-S1000-04A-D		AT-S1000-06C-D	AT-S1000-07C-D	
Calibration distance(mm)	1500	2000	2500	600	1000	600	250	350
Working distance(mm)	1050~1950	1400~2600	1750~3250	420~780	700~1300	400~800	200~300	300~400
Proximal vision(mm)	1170x700	1680x970	1850x1110	490x290	750x490	280x220	126x82	175x113
Distant vision(mm)	1770x1280	2620x1720	3120x2180	770x530	1370x920	540x430	158x114	219x139
VDI/VDE accuracy(mm)	0.150@1500	0.540@2000	0.900@2500	0.111@600	0.128@1000	0.192@600	0.036@250	0.060@350
Resolution(px)	1920x1200			1920x1200		1920x1200	1920x1200	
Typical capture time(s)	3.5			3.5		0.6~1	0.6~1	
Dimensions(LxWxH, mm)	680x230x164			328x180x105		230x179x112	230x179x112	
Weight(kg)	26.7			6.8		6.3	5.9	
Operation temperature(°C)	-20~50			-20~45		0~50	0~50	
Storage temperature(°C)	20%~90%RH(no condensation)							
IP rating	IP67							
Ex marking	Ex db IIB T5 Gb, Ex tb IIIC T95°C Db							
Ex standard	GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.31-2021							
Material number	3.01.01.01.069	3.01.01.01.070	3.01.01.01.071	3.01.01.03.042	3.01.01.03.043	3.01.03.02.032	3.01.03.03.006	3.01.03.03.007



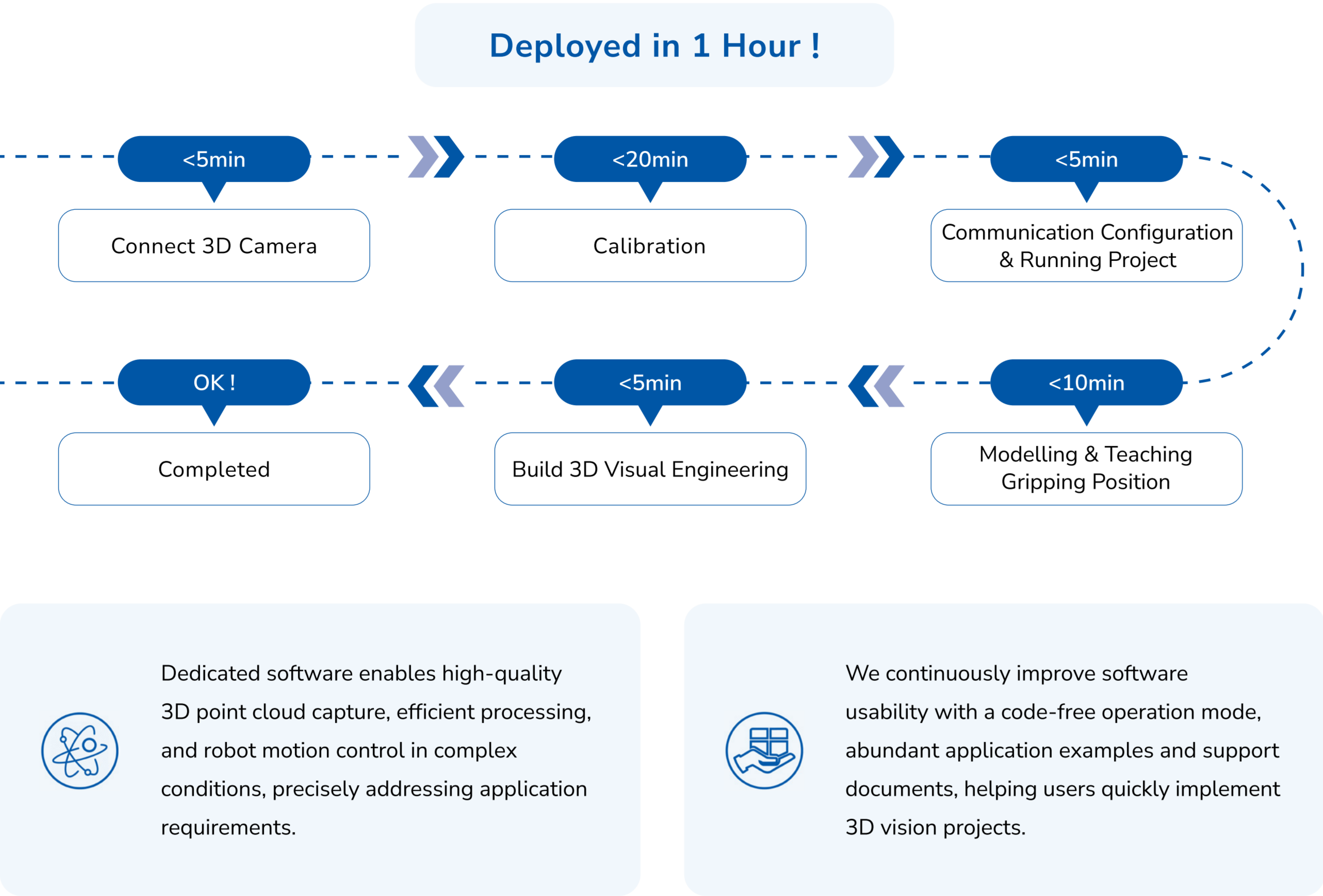
3D Camera for
Automotive Industry

Product Model	Gap and Flush Measurement System AT-S1000-05B	Car Body Positioning System AT-S1000-03D
Working distance(mm)	110±10	1000~5000
Working distance(mm)	60@110	700×600~1250×1050
Resolution accuracy X(mm)	0.030@110	/
Typical capture time(s)	< 0.5	< 1.5
Position accuracy(mm)	/	±1
Output result	Gap and flushness data (*.csv,*.pdf,*.txt)	3D coordinates and posture information X,Y,Z,Rx,Ry,Rz
Operation temperature(°C)	0~50	0~50
Storage temperature(°C)	20%~90%RH(no condensation)	20%~90%RH(no condensation)
IP rating	IP65	IP65
Applicable workshop	Body Shop, Paint Shop, Final Assembly	Body Shop, Paint Shop
Packaged software	ALSON-ParaSetting ALSON-AutoGFM	ALSON-AutoCBP
Material number	3.01.02.03.002	3.01.03.07.003

For more products and detailed specifications, please visit the official ALSONTECH website: www.alsontech.com.

Software Products

ALSONTECH provides a full range of 3D vision software products for users at different demand stages. For a typical 3D vision-guided loading and unloading application, users can complete vision deployment within one hour only through simple operator drag-and-drop and parameter configuration, greatly improving project implementation efficiency.



SDK with Rich Interfaces for Developers

Enables fast integration of 3D vision functions, lowers development barriers and improves project deployment efficiency.

