

RVC Series 3D Area Scanner RVC-P series



RVC-P3270 High Precision 3D Area Scanner

RVC-P3270 high-precision 3D area scanner, single-point repeatability of up to 0.012mm, with built-in self-developed 3D imaging algorithms, make it resistance to ambient light excellently and operate more stable. The scanner can be widely used in 3C digital, home appliances, automotive parts production process, such as positional, gap, surface difference inspection scenarios.

Aircraft aluminum fuselage for all-around protection



Waterproof level greatly improved



Dust proof level greatly improved



Passed professional vibration test



Gigabit Ethernet port data transfer

Fan-free heat

volume

dissipation DesignWeight loss, noise reduction, smaller



Equipped with highresolution lens Reduce the image noise of point cloud

Highlighted 3D Module Stabilization of light output to achieve a stable and reliable scanning High environmental resistance performance fuselage

Aviation aluminum alloy shell IP 65 level protection

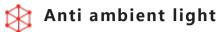




Ultra-high precision 🕰



Stable and reliable



Self-developed machine vision high IP65 rated and tested for stable operation in harsh environments. accuracy calibration algorithm, single point repeatability up to 0.012mm.

Self-developed dynamic streak structured light technology, excellent imaging effect on bright work-



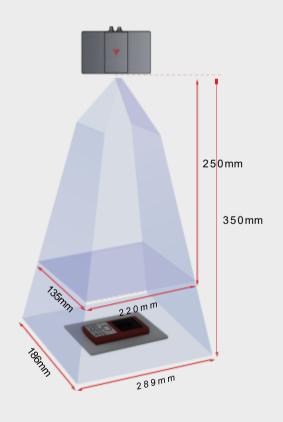
glue ring inspection of structural parts point cloud



Scratch detection of metal parts point cloud



notch inspection of structural components point cloud



model	RVC-P3270	
Minimum shooting time (sec / frame)	1.43	
Resolution (MP)	3.2 binocular	
Operating distance range (mm)	250~350	
Near field of view (FOV) (mm)	220*135 @ 250	
Far field of view (FOV) (mm)	289*186 @ 350	
XY directional resolution (mm)	0.11~0.15	
Z-axis single-point repetition accuracy (mm)	0.012~0.020	
Repeat accuracy of the Z-axis region (mm)	0.0004~0.0012	
illuminant source	RGB LED	
Communication interface	Gigabit Ethernet	
scanner weight (kg)	1.6	
scanner size (mm)	250*135*57	
Operating voltage / current	DC 24V/3.75A	
Levels of protection	IP65	
Operating temperature (°C)	0~45	
Operating Humidity (% RH)	20~80 (no condensation)	
Standard fitting	power supply adapter, power supply cord, data cable	
Whether the third-party development is supported	yes	
Supported development language	C/C++/C#/Python	
Supported development platform	Linux/Windows	
Adapt to the third-party software library	Halcon/OpenCV/Open3D/PCL/VisionPro	





RVC-P5330 High Precision 3D Area Scanner

RVC-P5330 high-precision 3D area scanner is suitable for assembling, gluing, grinding, welding and other high-precision visual positioning guidance scenes, also used for detecting surface defects, structural dimensions and other high-precision inspection. It can output high-precision point clouds of all kinds of complex workpieces, metals, plastics and other typical objects, to meet the needs of most industrial applications.



Waterproof level greatly improved



Dust proof level greatly improved



Passed professional vibration test



Gigabit Ethernet port data transfer









Ultra-high precision

Equipped with a 5-megapixel binocular lens, the single-point repeatability can be up to 0.025mm, which meets the customer's demand for high-resolution screen output such as X, Y direction measurement or positioning.

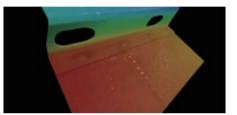


Anti ambient light

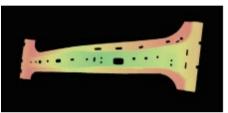
The self-developed dynamic stripe structured Light technology can detect a variety of materials at the same time, which greatly improves the ability to resist interference from ambient light and creates a more complete image.



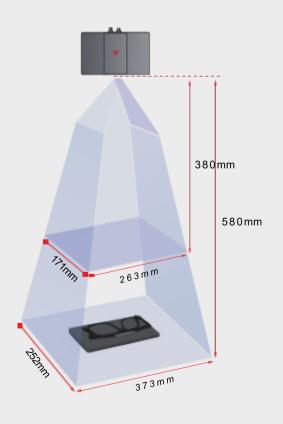
Sheet metal parts gluing inspection point cloud



steel plate workpiece point cloud



Automobile Bpillar workpiece point cloud



model	RVC-P5330	
Minimum shooting time (sec / frame)	2.0	
Resolution (MP)	5.0 binocular	
Operating distance range (mm)	380~580	
Near field of view (FOV) (mm)	263*171@380	
Far field of view (FOV) (mm)	373*252@580	
XY directional resolution (mm)	0.11~0.17	
Z-axis single-point repetition accuracy (mm)	0.025~0.046	
Repeat accuracy of the Z-axis region (mm)	0.0017~0.0044	
illuminant source	blue LED	
Communication interface	Gigabit Ethernet	
scanner weight (kg)	1.7	
scanner size (mm)	250*135*57	
Operating voltage / current	DC 24V/3.75A	
Levels of protection	IP65	
Operating temperature (°C)	0~45	
Operating Humidity (% RH)	20~80 (no condensation)	
Standard fitting	power supply adapter, power supply cord, data cable	
Whether the third-party development is supported	yes	
Supported development language	C/C++/C#/Python	
Supported development platform	Linux/Windows	
Adapt to the third-party software library	Halcon/OpenCV/Open3D/PCL/VisionPro	





RVC-P2600 High Precision 3D Area Scanner

RVC-P2600 high-precision 3D area scanner with binocular lens, compact structure design, and stable performance. RVC-P2600 is waterproof, dustproof, high temperature resistance, adapt to the factories environments full of dust,water vapor, and oil stains. The scanner used widely in welding, cutting, grinding, spraying, positioning assembly, gluing and other high-precision visual positioning scenes.



Waterproof level greatly improved



Dust proof level greatly improved



Passed professional vibration test



Gigabit Ethernet port data transfer















high protection

Aircraft aluminum unibody design, IP65 waterproof and dustproof.

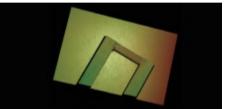


Anti ambient light

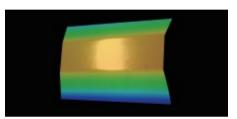
The self-developed Dynamic Stripe Structured Light technology can detect a variety of materials at the same time, which greatly improves the ability to resist interference from ambient light and creates a more complete image.



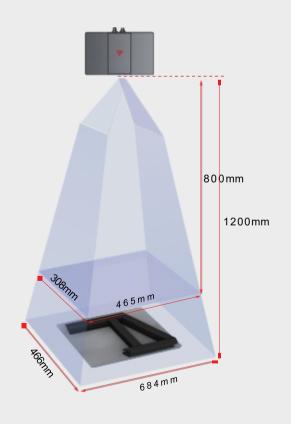
Welded workpiece point cloud



Welded workpiece point cloud



Large vehicle painting guide point cloud



model	RVC-P2600	
Minimum shooting time (sec / frame)	1.42	
Resolution (MP)	1.6 binocular	
Operating distance range (mm)	800~1200	
Near field of view (FOV) (mm)	465*308@800	
Far field of view (FOV) (mm)	684*466@1200	
XY directional resolution (mm)	0.35~0.52	
Z-axis single-point repetition accuracy (mm)	0.106~0.348	
Repeat accuracy of the Z-axis region (mm)	0.010~0.026	
illuminant source	RGB LED	
Communication interface	Gigabit Ethernet	
scanner weight (kg)	1.7	
scanner size (mm)	220*135*57	
Operating voltage / current	DC 24V/3.75A	
Levels of protection	IP65	
Operating temperature (°C)	0~45	
Operating Humidity (% RH)	20~80 (no condensation)	
Standard fitting	power supply adapter, power supply cord, data cabl	
Whether the third-party development is supported	yes	
Supported development language	C/C++/C#/Python	
Supported development platform	Linux/Windows	
Adapt to the third-party software library	Halcon/OpenCV/Open3D/PCL/VisionPro	





RVC-P3600 High Precision 3D Area Scanner

RVC-P3600 high-precision 3D area scanner ,binocular structured light technology, single-point repeatability up to 0.06mm, stable performance, waterproof, dustproof, high temperature resistant, adaptable to large amount of dust, water vapor, oil pollution plant environment. Waterproof, dustproof, high temperature resistant, adaptable to large amount of dust, water vapor, oil pollution of the plant environment, widely used in gripping, cutting, sanding, spraying, positioning assembly, gluing and other high-precision visual positioning scenarios.



Waterproof level greatly improved



Dust proof level greatly improved



Passed professional vibration test



Gigabit Ethernet port data transfer















high protection

Aircraft aluminum unibody design, IP65 waterproof and dustproof.

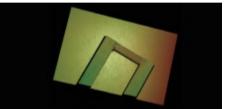


Anti ambient light

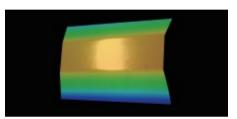
The self-developed Dynamic Stripe Structured Light technology can detect a variety of materials at the same time, which greatly improves the ability to resist interference from ambient light and creates a more complete image.



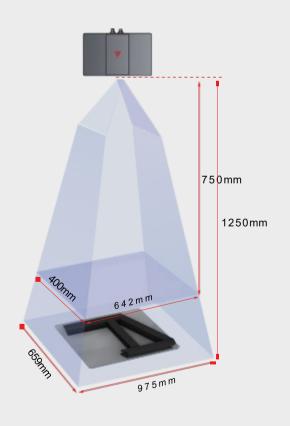
Welded workpiece point cloud



Welded workpiece point cloud



Large vehicle painting guide point cloud



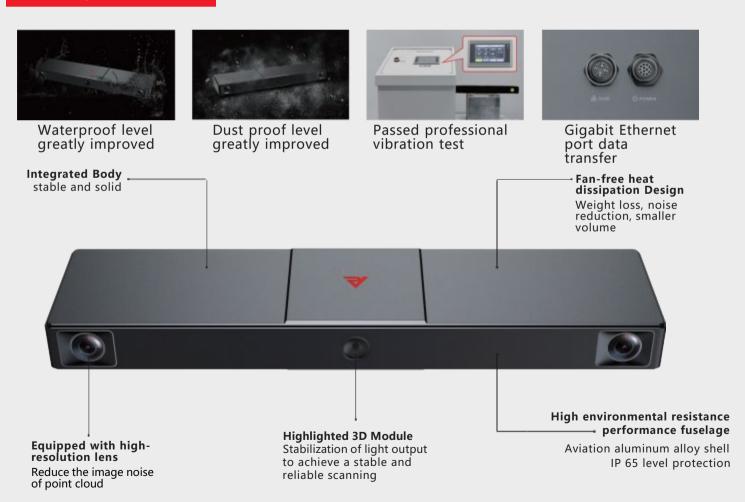
model	RVC-P3600	
Minimum shooting time (sec / frame)	1.8	
Resolution (MP)	3.2 binocular	
Operating distance range (mm)	750~1250	
Near field of view (FOV) (mm)	642*400@750	
Far field of view (FOV) (mm)	975*659@1250	
XY directional resolution (mm)	0.32~0.54	
Z-axis single-point repetition accuracy (mm)	0.06~0.24	
Repeat accuracy of the Z-axis region (mm)	0.004~0.009	
illuminant source	RGB LED	
Communication interface	Gigabit Ethernet	
scanner weight (kg)	2.25	
scanner size (mm)	220*135*57	
Operating voltage / current	DC 24V/3.75A	
Levels of protection	IP65	
Operating temperature (°C)	0~45	
Operating Humidity (% RH)	20~80 (no condensation)	
Standard fitting	power supply adapter, power supply cord, data cabl-	
Whether the third-party development is supported	yes	
Supported development language	C/C++/C#/Python	
Supported development platform	Linux/Windows	
Adapt to the third-party software library	Halcon/OpenCV/Open3D/PCL/VisionPro	





RVC-P31300&P32200 Medium Large View 3D Area Scanner

RVC-P31300&P32200 medium and large field of view 3D industrial cameras, with large field of view, high precision, fast imaging speed and excellent resistance to ambient light, can take photos of a large number of complex structure, tightly stacked, disorderly placement of various types of objects and output high-quality 3D point cloud datas to guide the robot to complete the disorderly grasping, material sorting, loading and unloading, depalletizing, spraying of various types of all sizes workpieces. which is widely used in various fields such as automotive manufacturing, logistics, packaging, electronics, heavy machinery, food and home appliances.









Higher precision

The single-point repeatability of up to 0.1mm realizes high-precision shooting with a large field of view and a long distance, making it easy to deal with a wide range of workpieces with complex structures and tightly stacked workpieces.



Multi-version selection

Provide blue/white light options to meet customers' multi-scene needs.



Anti ambient light

The self-developed Dynamic Stripe Structured Light technology can detect a variety of materials at the same time, which greatly improves the ability to resist interference from ambient light and creates a more complete image.



Greater Vision

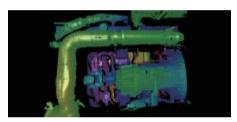
2.5*1.6 @ 3.3 meters large field of view, 1.3 meters large depth of field, easy to cover a variety of application scenarios.



Various carton point cloud



Depalletizing of soft packages point cloud



Automotive chassis components point cloud

RVC-P32200 3D area scanner			
		RVC-P31300 3D area scanner	
2	000mm		
7080nn 1589mm	3300mm	Ganny 1010mm	1200mm 2000mm
2556mm		1551mm	_

Product reference data			
model	RVC-P32200	RVC-P31300	
Minimum shooting time (sec / frame)	1.8	1.8	
Resolution (MP)	3.2 binocular	3.2 binocular	
Operating distance range (mm)	2000~3300	1200~2000	
Near field of view (FOV) (mm)	1589*1040@2000	1010*636@1200	
Far field of view (FOV) (mm)	2556*1667@3300	1551*1012@2000	
XY directional resolution (mm)	0.85~1.5	0.5~0.7	
Z-axis single-point repetition accuracy (mm)	0.22~0.77	0.10~0.46	
Repeat accuracy of the Z-axis region (mm)	0.004~0.03	0.008~0.019	
illuminant source	4.0	2.6	
Communication interface	760*135*58	560*135*58	
scanner weight (kg)	RGB LED		
scanner size (mm)	Gigabit Ethernet		
Operating voltage / current	DC 24V/3.75A		
Levels of protection	IP65		
Operating temperature (°C)	0~45		
Operating Humidity (% RH)	20~80 (no condensation)		
Standard fitting	power supply adapter, power supply cord data cable		
Whether the third-party development is supported	yes		
Supported development language	C/C++/C#/Python		
Supported development platform	Linux/Windows		
Adapt to the third-party software library	Halcon/OpenCV/Open3D/PCL/VisionPro		

