RVBUST

RVC Series
3D Area Scanner
RVC-G series

RVBUST

RVC-G52000
Large Field of View
3D Area Scanner

RVC-G52000 3D area scanner with large field of view, 3.1×2.6@3m large field of view, 1.8m large depth of field, sub-millimeter accuracy, good point cloud stability, IP65 protection, excellent resistance to ambient light, can quickly measure all kinds of objects, such as tightly stacked, disordered placement of cardboard boxes, sacks, steel workpieces, etc., and output a complete, accurate and high-quality 3D point cloud data, which is widely used in typical de-palletizing and handling scenarios such as logistics, express delivery, heavy machinery and so on. It is widely used in logistics, express delivery, heavy machinery and other typical depalletizing and handling scenarios.

High-strength carbon fiber fuselage for all-around protection

Waterproof level greatly improved

Dust proof level greatly improved

Passed professional vibration test

Gigabit Ethernet port data transfer

Compact design
Stable performance
Lighter weight

Fan-free cooling design
Good stability and higher protection

High resolution binocular 5MP camera
Improved point cloud quality

Laser Projection
Sharper Imaging

High strength carbon fiber body design
IP65 rated protection

Core Advantages

Large field of view
3.1×2.6@3m large field of view, 1.8 meters large depth of field, to meet the application of longdistance large field of view.

Super-strong body
High-strength carbon fiber body design, high structural stability, the camera is not easy to deformation, the weight of only 2.9kg, more flexible installation environment.
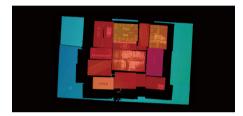
Highly accurate
With laser projection technology, the point cloud quality is higher, and the accuracy is up to 0.39mm.
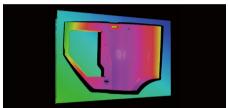
Anti ambient light interference
Professional optical system design, self-developed point cloud reconstruction algorithm, greatly improving the ability to resist ambient light interference.
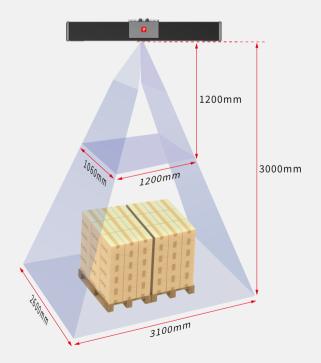
Point cloud display

Various carton point clouds

Softpack point cloud

car door point cloud

1200mm
1060mm
1200mm
3000mm
2600mm
3100mm

Product reference data	
Model	RVC-G52000
Minimum shooting time (sec / frame)	1.7
Resolution	2448 x 2048 (5MP), binocular, grayscale
Operating distance range (mm)	1200-3000
Near field of view (FOV) (mm)	1200*1060 @ 1200
Far field of view (FOV) (mm)	3100*2600 @ 3000
XY directional resolution (mm)	0.5 - 1.2
Z-axis single-point repetition accuracy (mm)	0.39
Repeat accuracy of the Z-axis region (mm)	0.01
illuminant source	Laser
Communication interface	Gigabit Ethernet
Camera weight (kg)	2.9
Camera size (mm)	692*93.5*81
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

RVBUST

RVC-G33500
Large Field of View
3D Area Scanner

RVC-G33500 3D area scanner with large field of view, 3.5×2.4@3m large field of view, 1.8m large depth of field, sub-millimeter accuracy, IP65 protection, excellent ambient light resistance. It can quickly measure all kinds of objects such as closely stacked and disorderly placed cartons, sacks, steel workpieces, etc. and output comple-te, accurate and high-quality 3D point cloud data. RVC-G33500 is widely used in logistics, express delivery, heavy machinery and other typical depalletizing and handling scenarios.

High-strength carbon fiber fuselage for all-around protection
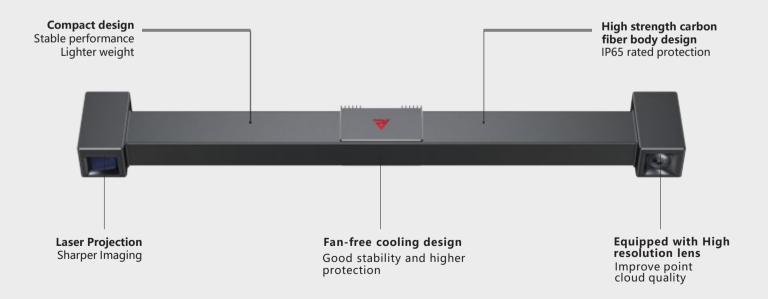

Waterproof level greatly improved

Dust proof level greatly improved

Passed professional vibration test

Gigabit Ethernet port data transfer

Compact design
Stable performance
Lighter weight

High strength carbon fiber body design
IP65 rated protection

Laser Projection
Sharper Imaging

Fan-free cooling design
Good stability and higher protection

Equipped with High resolution lens
Improve point cloud quality

RVBUST

Core Advantages

large field of view

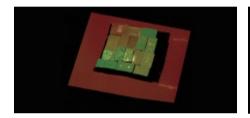3.5×2.4@3m large field of view, 1.8 meters large depth of field, to meet the application of long-distance large field of view.

highly accurate

With laser projection technology, the point cloud quality is higher, and the accuracy is up to 0.06mm.

light weight

High-strength carbon fiber body design, the camera is only 2.5kg, more flexible installation environment.
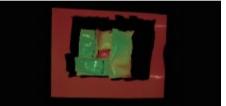
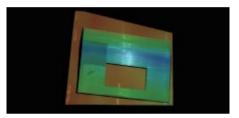### Anti ambient light interference

Professional optical system design, self-developed point cloud reconstruction algorithm, greatly improving the ability to resist ambient light interference.
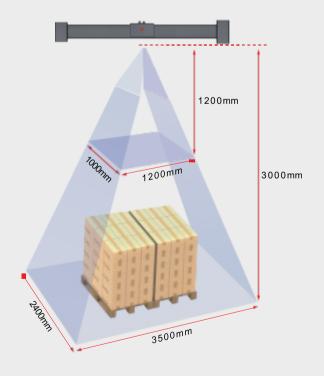
Point cloud display

Various carton point clouds

Softpack point cloud

Large vehicle body parts point cloud

1200mm
1000mm
1200mm
3000mm
2400mm
3500mm

Product reference data	
model	RVC-G33500
Minimum shooting time (sec / frame)	1.4
Resolution (MP)	3.2
Operating distance range (mm)	1200~3000
Near field of view (FOV) (mm)	1200*1000@1200
Far field of view (FOV) (mm)	3500*2400@3000
XY directional resolution (mm)	0.8~1.82
Z-axis single-point repetition accuracy (mm)	0.06~0.88
Repeat accuracy of the Z-axis region (mm)	0.01~0.25
illuminant source	Laser
Communication interface	Gigabit Ethernet
Camera weight (kg)	2.5
Camera size (mm)	940*130*67
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

RVBUST

RVC-G31800
Medium field of view
3D Area Scanner

RVC-G31800 medium field of view 3D area scanner, with high precision, high protection, excellent resistance to ambient light performance, can be complex structure, tightly stacked, disorderly stacking of various types of objects to take pictures and output a complete, accurate, high-quality 3D point cloud data, to meet the needs of various types of material sorting, loading and unloading and other visual guidance, is widely used in automotive manufacturing, logistics, electronics, heavy machinery, food, home appliances and other fields.
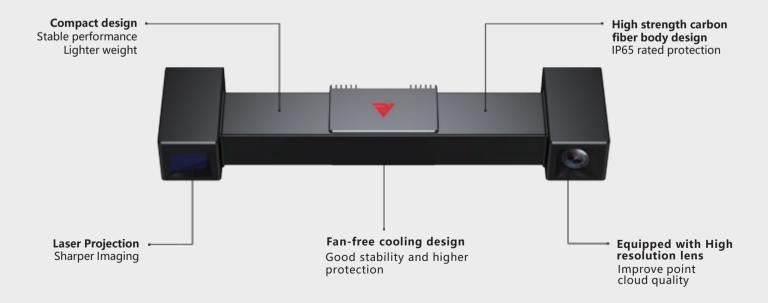
High-strength carbon fiber fuselage for all-around protection

Waterproof level greatly improved

Dust proof level greatly improved

Passed professional vibration test

Gigabit Ethernet port data transfer

Compact design
Stable performance
Lighter weight

High strength carbon fiber body design
IP65 rated protection

Laser Projection
Sharper Imaging

Fan-free cooling design
Good stability and higher protection

Equipped with High resolution lens
Improve point cloud quality
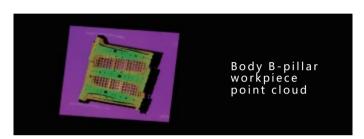
Core Advantages

Higher precision

With laser projection technology, the point cloud quality is higher and the accuracy is up to 0.05mm.
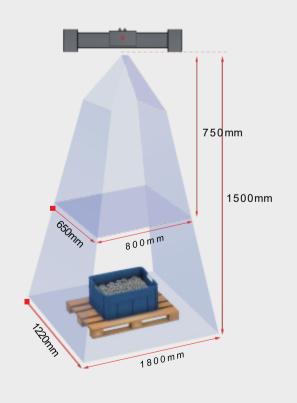
Anti ambient light interference

Professional optical system design, self-developed point cloud reconstruction algorithm, greatly improving the ability to resist ambient light interference.

Point cloud display

Body B-pillar workpiece point cloud

Aluminum corner piece point cloud

Product reference data	
model	RVC-G31800
Minimum shooting time (sec / frame)	1.2
Resolution (MP)	3.2
Operating distance range (mm)	750~1500
Near Field of View (FOV) (mm)	800*650@750
Far Field of View (FOV) (mm)	1800*1220@1500
XY direction resolution (mm)	0.5~1.3
Z-axis single-point repetition accuracy (mm)	0.05~0.2
Repeat accuracy of the Z-axis region (mm)	0.016~0.037
illuminant source	Laser
Communication interface	Gigabit Ethernet
Camera weight (kg)	2.2
Camera size (mm)	530*130*67
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-G31000
Medium field of View
3D Area Scanner

RVC-G31000 medium field of view 3D area scanner, high precision, high protection, excellent performance of anti-environmental light, can take pictures of all kinds of objects with complex structure, tightly stacked, disordered stacking and output complete and accurate high-quality 3D point cloud data, to meet the needs of all kinds of material sorting, loading and unloading and other visual guidance, widely used in automotive manufacturing, logistics, electronic products, heavy machinery, food, home appliances and other fields. It is widely used in automobile manufacturing, logistics, electronic products, heavy machinery, food, household appliances and other fields.
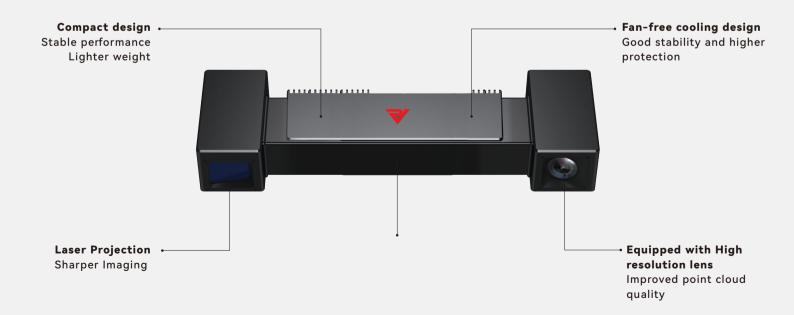
High-strength carbon fiber fuselage for all-around protection

Waterproof level greatly improved

Dust proof level greatly improved

Passed professional vibration test

Gigabit Ethernet port data transfer

Compact design
Stable performance
Lighter weight

Fan-free cooling design
Good stability and higher protection

Laser Projection
Sharper Imaging

Equipped with High resolution lens
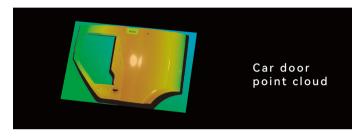Improved point cloud quality

Core Advantages

Higher precision

With laser projection technology, the point cloud quality is higher and the accuracy is up to 0.015mm.
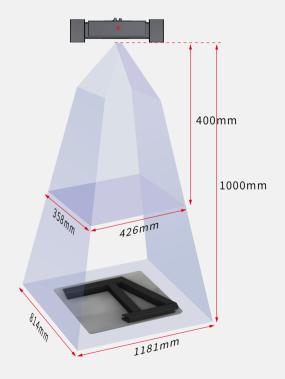
Anti ambient light interference

Professional optical system design, self-developed point cloud reconstruction algorithm, greatly improving the ability to resist ambient light interference.

Point cloud display

Car door point cloud

Workpiece point cloud

400mm

1000mm

358mm

426mm

814mm

1181mm

Product reference data	
Model	RVC-G31000
Minimum shooting time (sec / frame)	1.1
Resolution (MP)	3.2
Operating distance range (mm)	400~1000
Near field of view (FOV) (mm)	426*358@400
Far field of view (FOV) (mm)	1181*814@1000
XY directional resolution (mm)	0.26~0.59
Z-axis single-point repetition accuracy (mm)	0.015~0.1
Repeat accuracy of the Z-axis region (mm)	0.006~0.03
illuminant source	Laser
Communication interface	Gigabit Ethernet
Camera weight (kg)	2.3
Camera size (mm)	390*130*71
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