

## Specifications of Non-Contact 3D Digitizer KONICA MINOLTA RANGE5

Measuring method		Triangulation light block method	
Light source		Semiconductor laser; Wavelength: 660nm	
Laser class		Class 2 (IEC60825-1 Edition 2)	
Number of pixels taken		1.31 megapixels (1280 × 1024)	
Measurement distance		450mm to 800mm	
Measurement range (units: mm)	Distance	450	800
	Direction	X × Y	150 × 188
		Z	109
XY direction measurement interval (units: mm)		0.16	0.28
Accuracy (Distance between balls) <sup>*A</sup>		±80μm	
Precision (Z,σ) <sup>*B</sup>		8μm	
Autofocus		Yes	
Autoexposure		Yes	
Scan time		Approx. 2 sec. (1 scan)	
Preview function		Approx. 0.4 sec./scan	
Ambient lighting condition		500lx or less	
Output interface		USB 2.0 High Speed	
Power		Included AC adapter Input voltage: AC 100 to 240V (50/60Hz) Rating: 1.4A (at AC 100V input)	
Dimensions		295 (W) × 190 (H) × 200 (D) mm (Not including grips and lens)	
Weight		Approx. 6.7kg	
Operating temperature/humidity range		10 to 40°C; Relative humidity 65% or less with no condensation	
Storage temperature/humidity range		-10 to 50°C; Relative humidity 85% or less (at 35°C) with no condensation	

- A When measuring distance between 2 balls for a ball bar as defined in VDI/VDE 2634-2 under Konica Minolta measurement conditions  
Konica Minolta measurement conditions: Temperature: 20±1°C; Measurement distance: 450mm; Warmup: 20 min.; Software used: Konica Minolta processing software; After calibration of instrument; Measurement subject: Konica Minolta standard (2 balls); Arrangement of measurement subject: Konica Minolta standard arrangement (10 locations inside measurement space); Uncertainty of standard not included
- B Measurement conditions: Temperature: 20±1°C; Measurement distance: 450mm; Warmup: 20 min.; Measurement subject: Konica Minolta standard planar chart; Software used: Konica Minolta processing software; 1σ value

## Specifications of Konica Minolta 3D Data Processing Software RANGE VIEWER Ver. 1.3

### Main functions

Readable formats	Konica Minolta proprietary formats .rgv (Single scan data), .rvm (Multiple scan data); .rmk (Marker coordinate data)
Data output	STL (Binary); ASCII point cloud Konica Minolta proprietary formats .rgv, .rvm, .rmk
Measurement functions	Monitor image; Preview; AF/AE; Measurement Control of rotary stage (Konica Minolta optional accessory)
Editing functions	Data alignment; Data merging; Point cloud deletion
Shading	Point cloud shading

### Operating environment

OS	Windows® Vista Business SP1 (64 bit) / Windows® XP Professional x64 Edition SP2 (64 bit); Menu languages supported: Japanese, English, German, and Chinese (Simplified)
CPU	Core2Duo, Xeon, or better
RAM	4GB or more
Display	Graphics display capability of 1280×1024 or more
Graphics board	OpenGL compatible board (Board verified compatible by Konica Minolta recommended)
Interface	USB 2.0 port

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