Optical Profilometer Research Summary

Hot Rods

Brand	Model	Price (in 1,000s)	Resolution	Export Format	Additional
Novacam	**Microcam 3D (no stand)**	$40	≈1μm	MATLAB point-cloud	- 2.1k samples/sec - Radiation tolerant
Nanovea	**PS 50**	$50	xy 0.9µm z 1 nm	CSV/SUR, MATLAB compatible	- 50x50 mm inspection station (2 x 2”) - Benchtop setup - Image stitching addon ($5k) - Overall Dims: 11.8 x 9.84 x 10.6”
Nanovea	**JR 25**	$55	xy 0.9µm z 1 nm	CSV/SUR, MATLAB compatible	- 25x25mm inspection area (1 x 1”) - Portable, non-benchtop - Image stitching add-on ($5k) - Overall Dims: 7.87 x 11.8 x 6.69” (assem.)
Novacam	**Microcam 3D (w/ stand)**	$62	≈1μm	MATLAB point-cloud	- 2.1k samples/sec - 2 axis inspection - Radiation tolerant
Novacam	**Microcam 3D (no stand)**	$75	≈1μm	MATLAB point-cloud	- 30k samples/sec - Radiation tolerant
Nanovea	**ST 400**	$80	xy 0.9µm z 1 nm	CSV/SUR, MATLAB compatible	- 150x150mm inspection area (6 x 6”) - Benchtop - Automatic z-plane adjustment - Image stitching add-on not necessary - Overall Dims: 27.2 x 26.8 x 20”
Novacam	**Microcam 4D (w/ stand)**	$96	≈1μm	MATLAB point-cloud	- 30k samples/sec - 3 axis inspection (with galvo head) - Radiation tolerant