

RSV-150 Close-up Lenses

The RSV-150 Remote Sensing Vibrometer is primarily designed for long range measurements. The high aperture telephoto lens coupled to higher power yet eye-safe laser technology result in a very high optical sensitivity.

Close-up lenses, available individually or in sets of two, enable the RSV-150 to be operated at distances less than 5 m. Two lenses can be combined to realize different variable working distances, allowing the high optical sensitivity to be experienced for a range of in-lab applications including biological and other optically uncooperative surfaces.



Features

- Exceptional optical sensitivity in the lab at short working distances
- No treatment needed for any surface
- Best signal-to-noise ratio of any Polytec Vibrometer
- Stabilized laser for drift-free displacement measurements from short distances
- Thru-lens video for precise alignment of laser on small features

RSV-150 Close-up Lenses

Highest optical sensitivity for lab use
Datasheet



Technical Specifications



Close-up lens or combination of close-up lenses	Measurement distance ¹ [m]
RSV-A-261	2.6...1.7
RSV-A-166	1.7...1.25
RSV-A-261/RSV-A-261	1.35...1.05
RSV-A-261/RSV-A-166	1.05...0.87
RSV-A-166/RSV-A-166	0.87...0.75

¹ Measured from the front edge of the lens mount

Focused measurement distance ¹ [m]	Spot diameter [µm]	Focus depth of laser beam (-3dB) [mm]	Field of view [mm]
2.6	190	±18	65 x 48.6
1.7	120	±7.1	40.3 x 30.1
1.25	90	±3.8	29.5 x 22
1.05	75	±2.6	24.7 x 18.5
0.87	60	±1.8	20.1 x 15
0.75	50	±1.3	17.1 x 12.7

¹ Measured from the front edge of the lens mount

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