



Furnace Probe Lenses



- 1 = straight view, 70°
 2 = straight view, 94°
 3 = straight view, 110°
 4 = elbow view, 70°

Furnace probe lenses

- Probe lenses with various angles of view, straight viewing direction or 70° elbowed viewing direction via prism.
- Aperture control manually via remote control or automatically by means of video signal control, with ND filter.
- Wide angle lens with fixed focal length, high resolution and wide depth of focus.
- To protect the lens from thermal radiation, the viewing in front of the lens passes through a opening of Ø 1,5 mm, only.
- Lens with filter holder for two filter units.
- Filters for matching of image to required spectral range and contrast of video signal.
- Lense with camera adapters for 1/3", 1/2" and 2/3" image sensor size.

Filters

Glass thickness	2 mm
Transmission to light ¹⁾	
- Blue filter BG12 (dark)	72 % at 400 nm
slight permeability to red	< 1 % at 500 nm
- Blue filter BG23 (medium)	83 % at 450 nm
average permeability to red	< 1 % at 600 nm
- Green filter VG9	54 % at 520 nm
slight permeability to read	< 1 % at 440 nm > 640 nm
- Orange filter OG530	90 % at 600 nm
	< 1 % at 520 nm
- Neutral grey filter NG4	30 %
- Clear glass plate BK7	95 %

Technical data

Image areas	for 1/3", 1/2" or 2/3" format
Ratio of lens	1 : 5,6 (70° lens) 1 : 3,5 (94° lens) 1 : 2,8 (110° lens)
Depth of focus	1 m to ∞
Mounting thread	C-mount
Viewing pupil	appr: 1,5 mm diameter
Degree of protection	IP 60 to DIN 40050
Dimensions	max. diameter 63 mm appr. length: 315 mm (as per lens)
Weight	appr. 1,5 kg

Performance

Viewing direction	Angle of view		
	diagonal	horizontal	vertical
straight	70°	58°	45°
straight	94°	81°	65°
straight	110°	97°	81°
70° elbow	70°	58°	45°

¹⁾ Optical filters, color glass filters, are classified by means of its spectral transmission capability.



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Ordering data

Item	Order No.
Furnace Probe lenses	2GF1670 - 8 <input type="checkbox"/> <input type="checkbox"/>
With video-signal controlled auto iris function incl. 2 pc. clear glass plates BK7, fitted suitable for camera with 1/3", 1/2" or 2/3" image sensor	
camera adapter for 2/3" image sensor	C
camera adapter for 1/2" image sensor	D
camera adapter for 1/3" image sensor	E
Straight viewing direction	
- 70° diagonal view (G70A)	A
- 94° diagonal view (G94A)	B
- 110° diagonal view (110 A)	C
Elbow viewing direction 70°	
- 70° diagonal view (A 70 A)	D
Filter plates	
- clear glass BK7	2GF1693-8BA
- neutral grey filter NG4	2GF1693-8BB
- blue filter BG12, dark	2GF1693-8BC
- blue filter BG23, medium	2GF1693-8BD
- green filter VG9	2GF1693-8BE
- orange filter OG530	2GF1693-8BF