

R74 Thermal Imaging Test Chart

The R74 Thermal Imaging test chart, with improved dual material construction, provides a clear optical path USAF resolution pattern, from 0.25 lpmm (Group -2) to 28.51 lpmm (Group 4, element 6).

Suitable for resolution testing of Thermal, Far IR, UV and X-ray systems.

The front blackened 100mm square copper card supports a finely patterned nickel central foil. The open apertures provide a clear air path pattern, to eliminate chromatic and absorption issues experienced with other solid substrate formats.

This latest version of our R74, improves on the long established original product and is complemented by our full range resolution products, details of which can be found on our web site.

Pyser Optics introduce the improved R74 dual construction Thermal resolution target.

Call Pyser Optics to discuss your needs with our dedicated technical sales team.
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USAF resolution chart, number of lines per mm

Element Number	Group Number						
	-2	-1	0	1	2	3	4
1	0.250	0.500	1.00	2.00	4.00	8.00	16.00
2	0.280	0.561	1.12	2.24	4.49	8.89	17.95
3	0.315	0.630	1.26	2.52	5.04	10.1	20.16
4	0.353	0.707	1.41	2.83	5.66	11.3	22.62
5	0.397	0.793	1.59	3.17	6.35	12.7	25.39
6	0.445	0.891	1.78	3.56	7.13	14.3	28.51

USAF resolution chart, width of bars in mm

Element Number	Group Number						
	-2	-1	0	1	2	3	4
1	2.00	1.00	0.500	0.250	0.125	0.063	0.031
2	1.79	0.89	0.446	0.223	0.111	0.056	0.028
3	1.59	0.79	0.396	0.198	0.099	0.050	0.025
4	1.42	0.71	0.355	0.177	0.088	0.044	0.022
5	1.26	0.63	0.315	0.158	0.079	0.039	0.020
6	1.12	0.56	0.281	0.140	0.070	0.035	0.018