

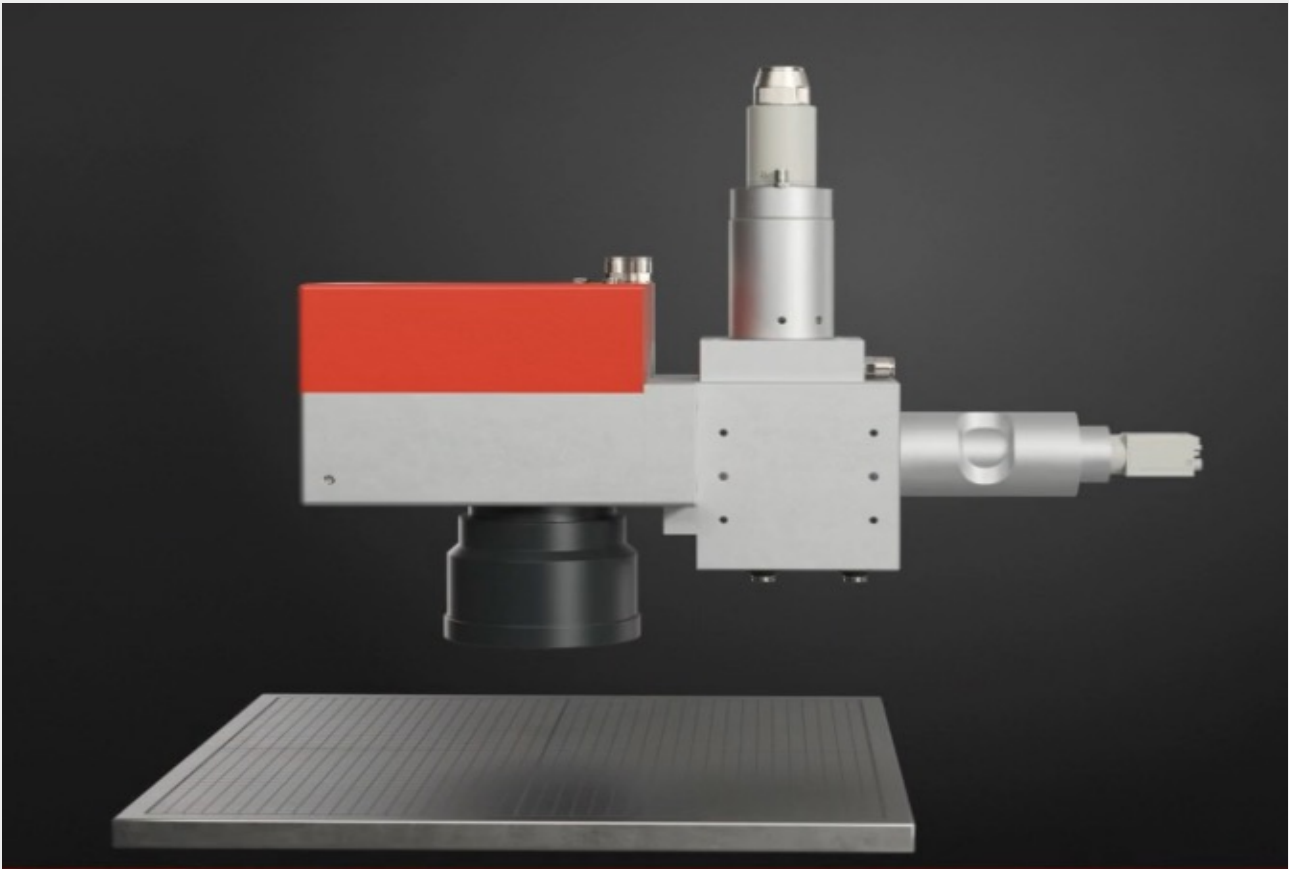
IMAGE FIELD DATA FOR COAXIAL CAMERA OBSERVATION FOR 5 MP CAMERAS

The data below refer to deflection units for YAG-Wavelength.
Note about resolution: These values are only valid for a resolution scale factor of 100% and if no pixel combining is active.
The cameras specatral range usually is from 400–1.000 nm with the peak intensity at around 550–600 nm.

COAXIAL CAMERA LENS IN COMBINATION
WITH 2-AXIS DEFLECTION UNIT + F-THETA-LENS

e.g. Teledyn Dalsa Genie Nano M2420	Camera Lens 002	Camera Lens 003
Camera Chip Size	2/3" – 5MP	2/3" – 5MP
active number of pixels – width	2.464,00	2.464,00
active number of pixels – height	2.056,00	2.056,00
active chip size – width [mm]	8,50	8,50
active chip size – height [mm]	7,09	7,09
Pixel size [µm]	3,45	3,45

Focal length f-theta [mm]	FOV [mm x mm]	Resolution [µm]	FOV [mm x mm]	Resolution [µm]
100	2,2 x 1,9	3,5	8,3 x 7,0	3,5
163	3,6 x 3,0	3,5	13,5 x 11,4	5,5
254	5,6 x 4,7	3,5	21,1 x 17,8	8,6
255	5,6 x 4,7	3,5	21,1 x 17,8	8,7
300	6,6 x 5,6	3,5	24,9 x 21,0	10,2
330	7,3 x 6,1	3,5	27,4 x 23,1	11,2
340	7,5 x 6,3	3,5	28,2 x 23,8	11,5
420	9,2 x 7,8	3,8	34,9 x 29,4	14,3
500	11,0 x 9,3	4,5	41,5 x 35,0	17,0



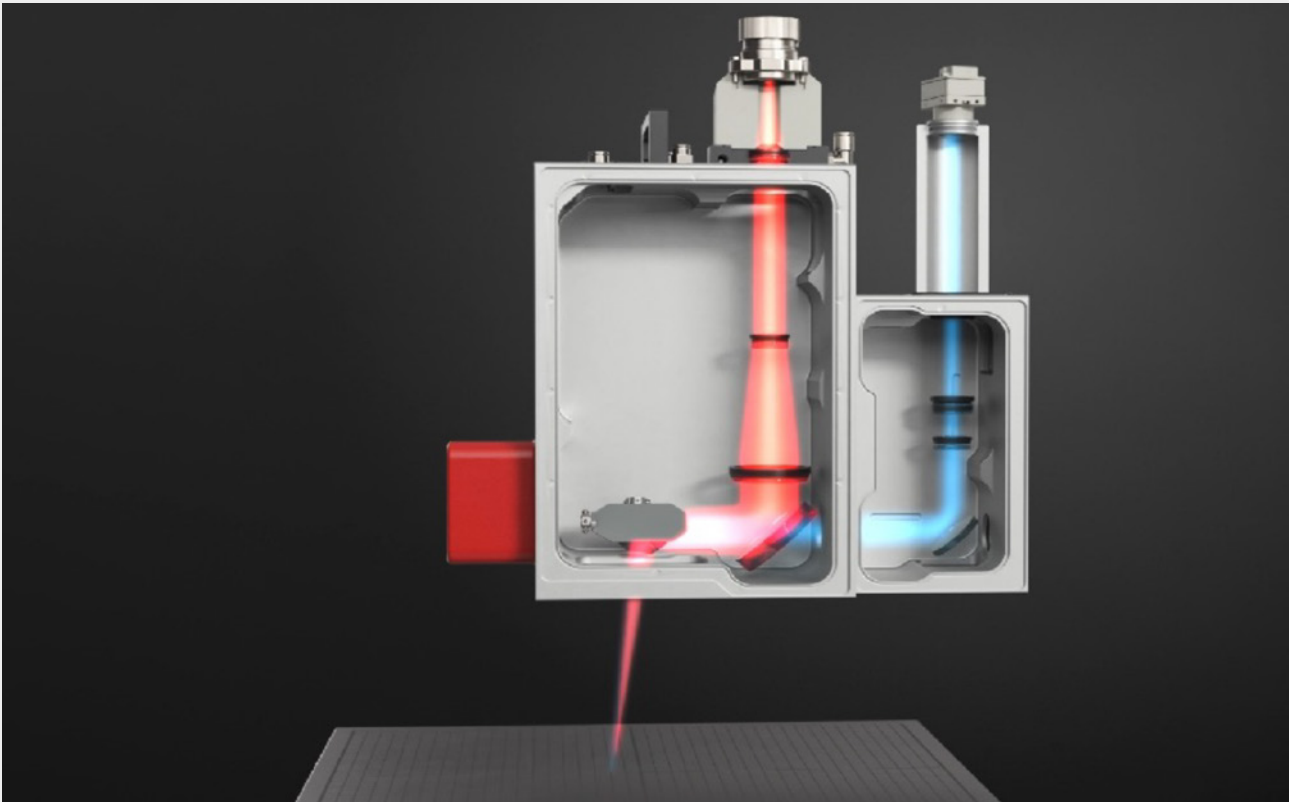
AS-FIBER IN COMBINATION WITH MONITORING UNIT RAYSPECTOR

	AS FIBER-20 / -30	AS FIBER-50
	RAYSPECTOR	RAYSPECTOR
Camera Chip Size	2/3" - 5MP	2/3" - 5MP
active number of pixels – width	2.464,00	2.464,00
active number of pixels – height	2.056,00	2.056,00
active chip size – width [mm]	8,50	8,50
active chip size – height [mm]	7,09	7,09
Pixel size [µm]	3,45	3,45

Processing field size [mm²]	FOV [mm x mm] ¹	Resolution [µm] ¹	FOV [mm x mm]	Resolution [µm]
250 x 250	30 x 25	15	–	–
300 x 300	32 x 27	17	35 x 30	20
400 x 400	37 x 31	21	40 x 34	23
500 x 500	42 x 35	24	45 x 38	26
600 x 600	48 x 40	28	50 x 42	29
700 x 700	53 x 44	31	55 x 47	32

¹ The values are, comparing AS F-30 vs. AS F-20, larger by 1–2 mm (for FOV) resp. 1–2 µm (for resolution). Therefore both use same table.

Setup requires suitable FC3 correction file with sensor axis support and RL3 heat protocol



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