

Objective Lenses

Objective lenses determine the field of view for each hyperspectral camera.

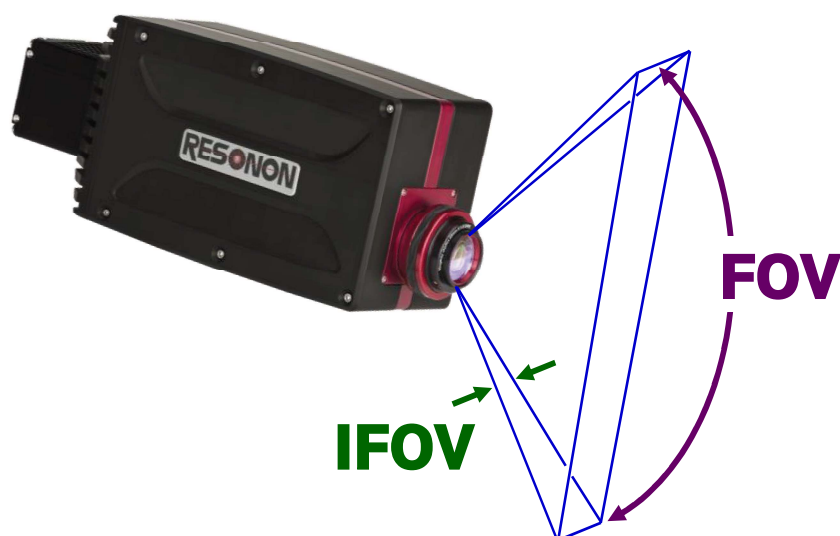


Field of View (FOV)

The Field of View defines the long dimension of the line imaged by the hyperspectral camera, reported in units of degrees. The user can change the FOV by changing the objective lens. See the tables below to identify the lens that provides the optimal FOV for each application.

Instantaneous Field of View (IFOV)

The Instantaneous Field of View defines the narrow dimension of the line imaged by the hyperspectral camera, reported in units of milli-radians.



Objective Lenses: Specifications

	Notes	FOV (deg)	IFOV (mrads)
Pika L (page 4)			
70 mm		4.3	0.17
50 mm		6.0	0.24
23 mm	standard on benchtop and outdoor systems	13.1	0.52
17 mm	standard on airborne systems	17.6	0.71
12 mm		24.8	1.00
8 mm		36.5	1.50
6 mm		47.4	2.00
Pika XC2 (page 4)			
70 mm		7.7	0.17
50 mm		10.7	0.24
23 mm	standard on benchtop and outdoor systems	23.1	0.52
17 mm	standard on airborne systems	30.8	0.71
12 mm		42.7	1.00
8 mm		60.8	1.50
6 mm		76.0	2.00
Pika IR (page 5)			
100 mm		5.5	0.30
75 mm		7.3	0.40
50 mm		11.0	0.60
25 mm	standard on all systems	21.7	1.20
6.0 mm		77.3	5.00
Pika IR+ (page 5)			
100 mm		5.5	0.15
75 mm		7.3	0.20
50 mm		11.0	0.30
25 mm	standard on all systems	21.7	0.60
6.0 mm		77.3	2.50

Objective Lenses: Specifications, continued

	Notes	FOV (deg)	I FOV (mrads)
Pika IR-L (page 6)			
100 mm		5.5	0.30
75 mm		7.3	0.40
50 mm		11.0	0.60
25 mm	standard on all systems	21.7	1.20
6.0 mm		77.3	5.00
Pika IR-L+ (page 6)			
100 mm		5.5	0.15
75 mm		7.3	0.20
50 mm		11.0	0.30
25 mm	standard on all systems	21.7	0.60
6.0 mm		77.3	2.50
Pika UV (page 7)			
60 mm		8.4	0.40
24 mm	standard on all systems	20.5	1.00