

## Calculated Field Of View For IR Cameras Used With An IR Viewing Window

### 24 Degree Field of View Camera Lens (FLIR, Electrophysics, Mikron IR cameras)

Distance from Target	2" Window Static	2" Window with 30 Deg Tilt	3" Window Static	3" Window with 30 Deg Tilt	4" Window Static	4" Window with 30 Deg Tilt
8"	5" x 5"	15" x 15"	6"x6"	18" x 18"	7"x 7"	21" x 21"
12"	7"x 7"	21" x 21"	8" x 8"	24" x 24"	9" x 9"	27" x 27"
18"	9" x 9"	27" x 27"	10"x10"	30"x30"	11" x 11"	33" x 33"
24"	12" x 12"	36" x 36"	13" x 13"	39" x 39"	14" x 14"	42" x 42"

### 20 Degree Field of View Camera Lens (Fluke IR Cameras)

Distance from Target	2" Window Static	2" Window with 30 Deg Tilt	3" Window Static	3" Window with 30 Deg Tilt	4" Window Static	4" Window with 30 Deg Tilt
8"	4" x 4"	12"x12"	5" x 5"	15" x 15"	6"x6"	18" x 18"
12"	6"x6"	18" x 18"	7"x 7"	21" x 21"	8" x 8"	24" x 24"
18"	8" x 8"	24" x 24"	9" x 9"	27" x 27"	10"x10"	30"x30"
24"	10" x 10"	30" x 30"	11" x 11"	33" x 33"	12" x 12"	36" x 36"

### 50 degree Field of View Camera Lens (Typical optional wide angle lens)

Distance	2" Window Static	2" Window with 30 Deg Tilt	3" Window Static	3" Window with 30 Deg Tilt	4" Window Static	4" Window with 30 Deg Tilt
8"	9" x 9"	27" x 27"	10" x 10"	30"x30"	11"x 11"	33" x 33"
12"	12" x 12"	36" x 36"	13" x 13"	39" x 39"	14" x 14"	42" x 42"
18"	17" x 17"	51" x 51"	18" x 18"	54" x 54"	19" x 19"	57" x 57"
24"	22" x 22"	66" x 66"	23" x 23"	69" x 69"	24" x 24"	72" x 72"

These numbers are representative for IRISS VPFR windows, which have full 2", 3", and 4" openings for viewing. Static numbers represent viewing with the camera held in one position, looking straight through the window. "Tilt" numbers represent the area that can be viewed by angling the camera right to left and up and down.