

# IR Lens for Uncooled Cameras

## **IL1912-F**

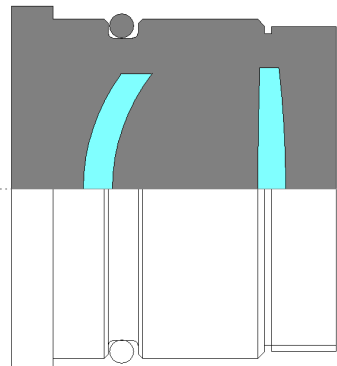
**Coming Soon**

### Key Features

This lens is athermalized for a wide temperature range.

It is optimized for 320x240 25 $\mu$ m-pitch uncooled detectors typically as well as other configurations.  
( See " Field of View " )

Custmized adapters are available if requested.



### Optical

Focal Length	18.8mm
F/#	1.2
Average Transmission (8-12 $\mu$ m)	>86%
Back Focal Distance	9.83mm, including 1mm Ge window
Scratch - Dig	60-30 ( SOC standards )

### Mechanical

Focus Mechanism	Manually adjustable
Focus Range	12m to infinity
Dimensions	Approximately Length 25mm, $\phi$ 30mm
Weight	To be determined
Lens Mount	M24 x 0.5

### Environmental

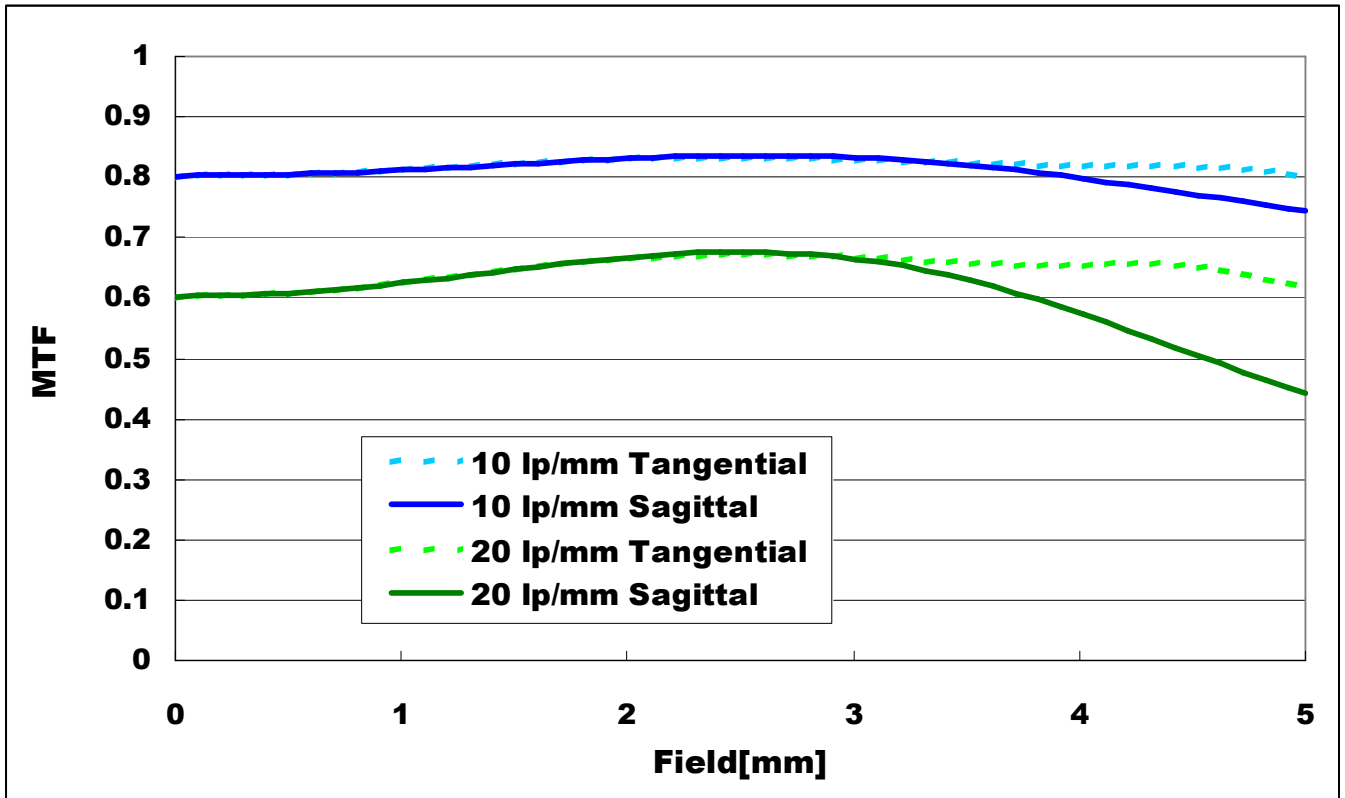
Operating Temperature	-30 $^{\circ}$ C to +60 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C to +80 $^{\circ}$ C

### Field of View

384 x 288 17 $\mu$ m	19.1 $^{\circ}$ (H) x 14.6 $^{\circ}$ (V) - 23.5 $^{\circ}$ (diagonal)
320 x 240 25 $\mu$ m	23.1 $^{\circ}$ (H) x 17.7 $^{\circ}$ (V) - 28.0 $^{\circ}$ (diagonal)
320 x 240 17 $\mu$ m	16.1 $^{\circ}$ (H) x 12.2 $^{\circ}$ (V) - 19.9 $^{\circ}$ (diagonal)
160 x 120 35 $\mu$ m	16.6 $^{\circ}$ (H) x 12.6 $^{\circ}$ (V) - 20.4 $^{\circ}$ (diagonal)
160 x 120 25 $\mu$ m	12.0 $^{\circ}$ (H) x 9.1 $^{\circ}$ (V) - 14.9 $^{\circ}$ (diagonal)
160 x 120 17 $\mu$ m	8.2 $^{\circ}$ (H) x 6.2 $^{\circ}$ (V) - 10.3 $^{\circ}$ (diagonal)

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## MTF Chart



at room temperature