

THULITE

A set of high-end lenses for APS-C sized 2" sensors and typical machine vision applications



NEW



THULITE 2.8/35



THULITE 2.8/50



THULITE 2.8/75

High performance for sensors up to 2"

Key Features:

- 2" (32mm) max. sensor size
- 3 focal lengths: 35 mm, 50 mm, 75 mm
- Very high resolution down to 2.4µ pixel size
- Initial aperture: F2.8
- M42 and TFL-Mount available
- Covering a wide working distance range

Suitable Sensors (Selection):

- SONY IMX 342 (Pregius S™ 2nd Gen.)
- On Semi XGS45000
- On Semi Python 25k
- CMOSIS CMV12000
- GPixel GMAX0806
- Line Scan Sensors 8k/3.5µ and 4k/7µ

Typical applications:

- Machine Vision
- AOI (Automated Optical Inspection)
- 3D and 2D measurement
- Robotic Vision
- Surface Inspection

Main markets:

- Industry
- Automotive
- Medical
- Traffic
- Security

Parameter	Value
Focal length	35, 50, 75 mm
f/#	2.8
Image circle	32 mm
Sensor size	up to 2"
Pixel size	down to 2.4 µm
Chief ray angle (CRA)	< 10°
Versions available	Long and short distance for 2.8/50 and 2.8/75
Size (length from mount x diam.)	< 84 mm x 56 mm
Available Mounts	TFL, M42x0.75, M42x1
Weight	< 450 g
Coating	400–1000 nm

Feature	Benefit
Optimized for wide working distance range	Usable in wide variety of applications
High resolution down to pixel size of 2.4 µm	Suitable for high resolution sensors
Low vignetting and high resolution from f/2.8	Fully usable at low light
High transmission from 400 to 1000 nm	Suitable for VIS as well as NIR applications
Optimized for sensors with micro lenses	Compatible with Sony Pregius™ 2nd Gen.
Available with different camera mounts	Universal fit to variety of cameras
Robust mechanical design	Stable image position and long-term durability