

# TOURMALINE

High-resolution 1.3" C-Mount/TFL-Mount lenses for demanding imaging applications. Exceptional imaging performance even in harsh environments.



TOURMALINE	Aperture	f' (mm)	Mount	Sensor Size (mm)	Type	Size D x L (mm x mm)	Weight (g)	Filter thread	ID
TOURMALINE 2.8/16 C	2.8–16	16	C	1.3" (24mm)	standard	39 x 71.1	204	M49 x 0.75 *	1084232
TOURMALINE 2.8/16 TFL	2.8–16	16	TFL	1.3" (24mm)	standard	39 x 71.1	204	M49 x 0.75 *	1098691
TOURMALINE 2.0/20 C	2.0–16	20	C	1.3" (24mm)	standard	48 x 62.9	450	M35.5 x 0.5	1056472
TOURMALINE 2.0/20 TFL	2.0–16	20	TFL	1.3" (24mm)	standard	48 x 62.9	450	M35.5 x 0.5	1098778
TOURMALINE 2.0/24 C	2.0–16	24	C	1.3" (24mm)	standard	40 x 41.5	120	M37 x 0.75	1071371
TOURMALINE 2.0/24 C-MI	2.0–16	24	C	1.3" (24mm)	motorized iris	50 x 41.5	164	M37 x 0.75	1076613
TOURMALINE 2.0/24 TFL	2.0–16	24	TFL	1.3" (24mm)	standard	40 x 41.5	120	M37 x 0.75	1098692
TOURMALINE 2.0/35 C	2.0–22	35	C	1.3" (24mm)	standard	41 x 55.5	160	M37 x 0.75	1006219
TOURMALINE 2.0/35 C-MI	2.0–22	35	C	1.3" (24mm)	motorized iris	50 x 55.5	204	M37 x 0.75	1076612
TOURMALINE 2.0/35 TFL	2.0–22	35	TFL	1.3" (24mm)	standard	41 x 55.5	160	M37 x 0.75	1098690
TOURMALINE 2.8/40 C	2.8–22	40	C	1.3" (24mm)	standard	34 x 48.3	78	M30.5 x 0.5	1101717
TOURMALINE 4.0/45 C	4.0–22	45	C	1.3" (24mm)	standard	34 x 51.6	78	M30.5 x 0.5	1101715
TOURMALINE 2.8/50 C	2.8–32	50	C	1.3" (24mm)	standard	34 x 52.6	135	M30.5 x 0.5	1001976
TOURMALINE 2.8/50 C-R	2.8–32	50	C	1.3" (24mm)	ruggedized	34 x 52.6	135	M30.5 x 0.5	1062882
TOURMALINE 2.8/50 C-MI	2.8–32	50	C	1.3" (24mm)	motorized iris	50 x 52.6	179	M30.5 x 0.5	1076168
TOURMALINE 2.8/50 TFL	2.8–32	50	TFL	1.3" (24mm)	standard	34 x 52.6	135	M30.5 x 0.5	1098689
TOURMALINE 4.0/60 C	4.0–22	60	C	1.3" (24mm)	standard	34 x 63.2	135	M30.5 x 0.5	1101716

\*Optional filter adapter is required

## MAXIMUM PERFORMANCE UP TO 1.3"

### Key Features:

- 1.3" (24mm) max. sensor size
- Resolution down to 2.4 μm pixel size
- Low chief ray angle suits all SONY Pregius™ generations
- 8 focal lengths: 16mm to 50mm
- Initial aperture: F2 to F2.8

### Typical applications:

- Machine Vision
- AOI (Automated Optical Inspection)
- 3D and 2D measurement
- Traffic and surveillance

## TOURMALINE LENSES FOR THE INDUSTRY

With a maximum sensor size of 1.3" (24mm) and a resolution of up to 2.4 μ pixel size, the TOURMALINE lenses offer impressive performance. The low chief ray angle makes them suitable for all SONY Pregius™ generations. TOURMALINE lenses are available as C-Mount and TFL-Mount lenses in 8 different focal lengths from 16mm to 50mm. With initial apertures from F2 to F2.8, TOURMALINE lenses allow precise control of the amount of light reaching the sensor. Some models are also available in a ruggedized version for use in harsh environments. In addition, a number of models are available with a motorized iris.

## MORE INFORMATION

Discover the variety of our high quality lenses. For more technical details on the lenses and datasheets, please visit our website: [www.schneiderkreuznach.com/tourmaline](http://www.schneiderkreuznach.com/tourmaline)



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01/2024

