## Navitar's Vision for the Future of 4K/8K Imaging

The Preciso 16 mm lens is the first in a series that delivers uncompromised image capture for challenging applications using large format, high resolution sensors. This versatile lens maintains high contrast, high resolution over the full conjugate range, while maintaining high MTF and low distortion. Navitar's Preciso Series bridges the current gap between close focus lenses optimized for general MV applications, and high resolution, HDR grade objectives used for emerging "look up" applications in AI, robotics, security, and autonomous vehicles.

This lens Supports Sony IMX series sensors with $2.45 \mu \mathrm{~m}$ pixel and Sony's newest 4th generation sensors with $2.74 \mu \mathrm{~m}$ pixel.

## INDUSTRY LEADING FEATURES

Bi-aspheric design with ultra-low dispersion glass maximizes MTF and reduces distortion

Optimized for $1^{\prime \prime}$ sensors and supports up to $1.1^{\prime \prime}$ sensors
$>$ High resolution across focal distances of 100 mm -Infinity
Chromatic Correction from 435nm-700nm
) Internal focus mechanism
) Low chief ray angle
Convenient c-mount design, compatible with existing cameras


| SPECIFICATIONS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Focal Length | 10 mm | 16 mm | 25 mm | 35 mm | 50 mm | 100 mm |
| F-Number | 1.8-22 (Iris) | 1.8-22 (Iris) | 1.8-22 (Iris) | 1.8-22 (Iris) | 1.8-22 (Iris) | 1.8-22 (Iris) |
| Max Image Circle | $\begin{gathered} 18.0 \mathrm{~mm} \\ \text { (1.1" Sensor) } \end{gathered}$ | $\begin{gathered} 18.0 \mathrm{~mm} \\ \text { (1.1" Sensor) } \end{gathered}$ | $\begin{gathered} 18.0 \mathrm{~mm} \\ \text { (1.1" Sensor) } \end{gathered}$ | $\begin{gathered} 18.0 \mathrm{~mm} \\ \text { (1.1" Sensor) } \end{gathered}$ | $\begin{gathered} 18.0 \mathrm{~mm} \\ \text { (1.1" Sensor) } \end{gathered}$ | $\begin{gathered} 18.0 \mathrm{~mm} \\ \text { (1.1" Sensor) } \end{gathered}$ |
| Wavelength Correction | 435 mm -700nm | 435mm-700nm | 435mm-700nm | 435mm-700nm | 435mm-700nm | $435 \mathrm{~mm}-700 \mathrm{~nm}$ |
| Min / Max Object Distance | $50 \mathrm{~mm} / \infty$ | $100 \mathrm{~mm} / \infty$ | $150 \mathrm{~mm} / \infty$ | $200 \mathrm{~mm} / \infty$ | $250 \mathrm{~mm} / \infty$ | $300 \mathrm{~mm} / \infty$ |
| Focus Method | Internal Focus | Internal Focus | Internal Focus | Internal Focus | Internal Focus | Internal Focus |
| TV Distortion , $\infty$ ] | [1\%, 0.1\%] | [1\%, 0.1\%] | [1\%, 0.1\%] | [1\%, 0.1\%] | [1\%, 0.1\%] | [1\%, 0.1\%] |
| MTF |  | See Graphs |  |  |  |  |
| Relative Illum. (2/3", ${ }^{\prime \prime}$, 1.1") |  | [85\%, 62\%, 53\%] |  |  |  |  |
| Chief Ray Angle | $<5^{\circ}$ | $<5^{\circ}$ | $<5^{\circ}$ | $<5^{\circ}$ | $<5^{\circ}$ | $<5^{\circ}$ |
| Barrel Length |  | 96.0 mm |  |  |  |  |
| Max Barrel Diameter |  | 46.0 mm |  |  |  |  |




## KEY



