

Fetura+[™] Advanced Zoom Lens System

High-Performance, High Speed



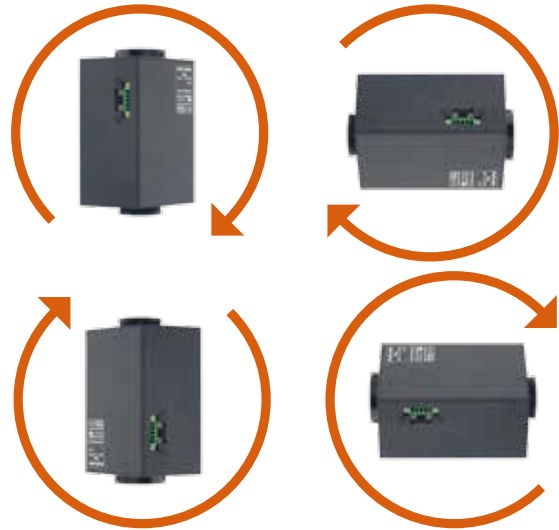
The Fetura+ Advantage

Fetura+ Advanced Zoom Lens is a self-contained, controllable zoom optical system which represents the performance apex of zoom optical lens technology. The unique electronic, linear-rail optomechanical design offers a number of distinct operational advantages.

Innovative Precision and Durability

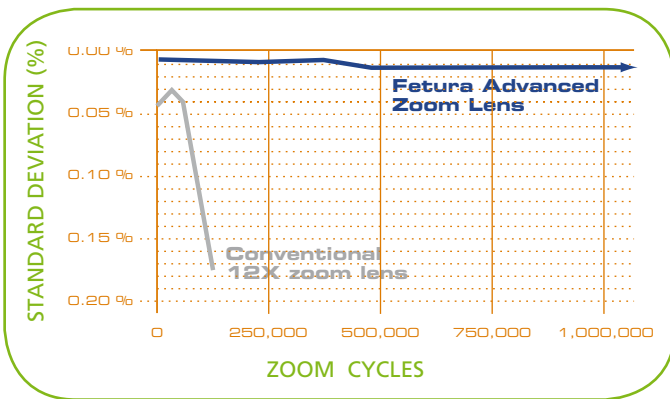
The unique linear-rail design and robust engineering ensure consistent repeatability precision throughout an impressive 1-million zoom cycles. Fetura+ experiences virtually no repeatability fall-off across 1-million zoom cycles.

The linear-rail design further maintains this performance consistency in any orientation of the Fetura+ lens (vertical, horizontal or inverted and any angle in between).



PRECISION IN ANY ORIENTATION

02



MAGNIFICATION REPEATABILITY *

* Results of comparative service life testing of Fetura and conventional 12X motorized zoom lenses.

Compatibility to Optem FUSION

Optem FUSION is the most versatile Zoom System on the market with unrivalled flexibility offering magnifications from 0.045X up to 41X and a multitude of accessories for focusing, illumination and mounting as well as connectivity to cameras with virtually any mount up to F-mount. Even microscope lenses can be used to further increase optical magnification. Existing Fusion setups with motorized zooms can be upgraded by just exchanging the zoom against Fetura+.



OPTEM FUSION ZOOM SYSTEM

FETURA+™

ADVANCED ZOOM IMAGING

9-Times Longer Service Life = Added Value

Fetura+ endurance translates to an extended service life well beyond 1-million zoom cycles... a feat that would exhaust as many as nine conventional motorized zoom lenses*. This extreme durability translates into an operational cost nearly 1/3 that of nine conventional motorized zoom lenses for applications with extremely frequent zoom movements.



Unmatched Zoom Speed

The unique linear rail design combines with synchronized lens cell motors to propel Fetura across its 12.5:1 optical zoom range in under one second. This unprecedented optomechanical speed removes the zoom imaging bottleneck and makes Fetura the ideal solution for the growing demands of high repetition machine vision.



Streamlined Integration

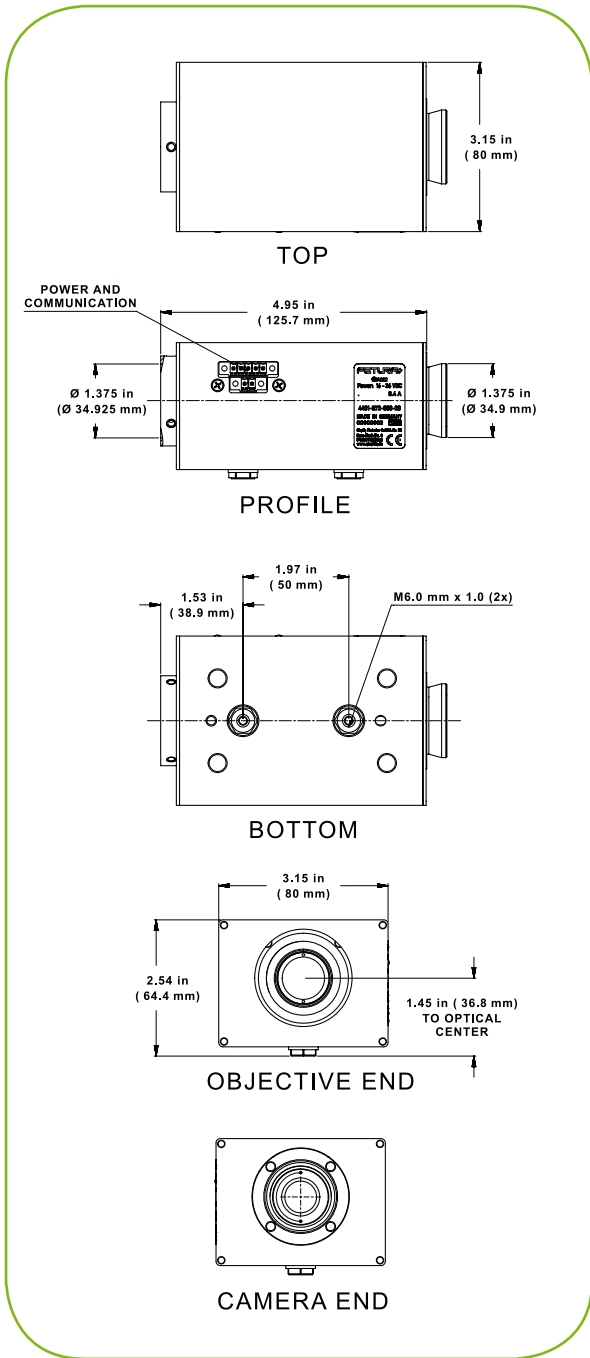
Fetura+ offers a standard RS232 interface with a rich intuitive command set that is described in detail in the SDK. An example software is available as well. Instead of Sub-D connectors Fetura+ uses industrial connectors for industrial grade electrical connections.

The mechanical integration can be done either via the inline clamps of the Fusion system or the 2 threads on the bottom of the housing.

Next-Generation Improvements

The most significant change is in the optics: Fetura+ is infinity corrected on both sides to permit compatibility with Optem FUSION accessories. The next generation optical redesign also recognized improvements to the optical performance and increasing contrast especially in the edges of the FoV. Further changes have been implemented in mechanics and electronics to achieve improved focus repeatability and mechanical stability for the most demanding applications and imaging environments. On the firmware side we added the continuous zoom feature that enables zooming with a constantly focused object for a live view of the zooming progress – the zoom speed can be adjusted of course. This can also be realized with a simple external potentiometer as well to achieve headless operation without a PC.





Your Key to Photonic Innovation...

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...and Manufacturing Advancement

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