



Excelitas Technologies Launches Cobra Eye Flat Field Eyepiece

Comfortable, Lightweight Eyepiece Offers High-Quality Performance for Thermal, Night Vision, Virtual Reality and Augmented Reality Systems



WALTHAM, Mass., October 13, 2021 – [Excelitas Technologies® Corp.](#), a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions, announces its new [Cobra Eye™ flat-field eyepiece](#) for integration into thermal, night vision, virtual reality and augmented reality systems. The Cobra Eye is compact and lightweight for user comfort, while enabling low distortion and a wide field of view (FOV).

The Cobra Eye eyepiece utilizes a combination of glass and plastic elements to meet a required weight of 60 g with a -6D to 2D dioptric adjustment. It has excellent correction of aberrations and color, which provides high resolution images across the FOV. This also makes the eyepiece ideal for monochrome and color display viewing applications. In addition, Cobra Eye avoids vignetting to ensure uniformity in brightness across the total FOV.

Cobra Eye is ITAR free. It offers 50 lp/mm resolution with just 4 percent distortion, and pixel pitch of 9.6µm. Effective focal length is 22 mm, with full field view angle 40 degrees. Its maximum display size is 12.3 mm x 9.8 mm, with 15.7 mm diagonal (1280x1024) display (SXGA).

The new eyepiece operates at -40°C to +55°C and can be stored at -51°C to +71°C. It is configured to withstand vibration from 5 to 55 Hz and force up to 2.5 g, as well as mechanical shock of 40 g / 6 ms. Solar radiation specification is consistent with MIL-STD-810G, and sealing meets the IP68 standard.

Brad Tan, Excelitas' Business Development Manager, said, "The Cobra Eye offers increased comfort and ease of use, enabling the latest technologies in high-performance vision systems such as augmented reality applications. This newest eyepiece design leverages Excelitas' years of experience developing high-technology optics and meeting the highest performance needs of customers in a range of industries."

The lightweight optic is configurable to customer needs. For more information, please visit <https://www.excelitas.com/product/cobraeye-lightweight-compact-eyepiece-micro-displays>.

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About Excelitas Technologies

Excelitas Technologies® Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic, sensing, detection and imaging needs of our OEM and end-user customers. Serving a vast array of applications across biomedical, scientific, semiconductor, industrial manufacturing, safety, security, consumer products, defense and aerospace sectors, Excelitas stands committed to enabling our customers' success in their many various end-markets. Our team



consists of more than 7,500 professionals working across North America, Europe and Asia, to serve customers worldwide.

Connect with Excelitas on [Facebook](#), [LinkedIn](#), [Twitter](#) and [Instagram](#), or visit <http://www.excelitas.com> for more information.

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