

## CDS Offers Rugged Lumineq Displays

Written by Bob Snyder  
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Crystal Display Systems now offer the rugged **Lumineq Displays**.

Lumineq, a business unit of **Beneq** (*OK, not to be confused with BenQ*), is the world's premier manufacturer and developer of thin film electroluminescent (TFEL) displays as well as their transparent **TASEL** displays.

Lumineq TFEL non-transparent displays are used in aerospace, mining, marine, military, medical and other demanding environments. TFEL displays are robust and reliable for use in extreme environments, where traditional displays cannot cope.

Built for demanding conditions including cold, heat, wind, dust, vibration, sunlight and even G-Forces, electroluminescent panels (EL) retain more than 75% of their original brightness after more than 100,000 hours of operation, making them ideal for a long term design.

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The Finnish technology creates opportunities for quality images despite any of the wide range of challenging visual conditions and applications. The rugged thin film electroluminescent (TFEL) displays do not require heaters or coolers due to the fact that their module performance can be as low as -40 °C and as high as +105 °C. Instant-on performance with Instant pixel response over the entire temperature range, and no motion blur.

The TASEL displays could enable you to break the design boundaries of conventional displays. Transparent displays are ideal for high-end applications, where a subtle, modern, sleek look and first-class viewing experience make the product stand out. The basis of a TASEL, the display glass, is easily customized, it can be drilled or cut to custom sizes to fulfill your design requirements.

TASEL modules are transparent when not in use, and unused areas of the display remain clear as the rest is illuminated. As well as this curved displays and custom shapes are also available fulfilling most design requirements.

In addition to a range of standard products, Beneq offers custom Lumineq displays. You can design your own displays and still get all the benefits of their thin film electroluminescent display technology, manufactured in-house at Beneq's factory in Finland.

Lumineq lifecycle programs, with guaranteed long-time availability, make it easy for customers to focus on their products, and keep them in production longer.

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