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Mitsubishi Electric direct view LED commands attention

Direct view LED takes a commanding position on the Mitsubishi Electric booth at ISE 2018. Visitors to Hall 2 will be greeted with a massive 11m x 1.6m control room display simulation built using Mitsubishi's latest display technology, narrow pixel pitch (NPP) LED. The display will be the largest system of its kind yet seen in public.

The recently launched VS-15NP160 (15-NP) is the first direct view LED screen designed specifically for command and control applications, and incorporates many of the key technologies of Mitsubishi's DLP and LCD displays, along with several patented features which enhance long-term reliability, energy efficiency and performance. The addition of direct view LED to its portfolio allows Mitsubishi Electric to offer exciting new alternatives for large-scale control room display projects.

Designed and built by Mitsubishi Electric in Japan under stringent quality control, the 15-NP delivers a light output of 800 cd/m², which together with its high contrast ratio and completely seamless screen surface, makes it an ideal choice for SCADA-type applications. A new patented anti-burn feature allows static graphics to be displayed for long periods of time without adversely affecting performance or lifespan. The 15-NP is rated for 100,000 hours of continuous operation, with its anti-burn feature ensuring that LED luminance and chromaticity remains uniform over the life time of the screen.

Unlike DLP rear projection, light output per square meter is constant and independent of the total screen area, meaning that it is possible to create daylight-viewable displays of any size. Display depth of only 90mm means that it can be installed virtually anywhere, and both front and rear access versions are available to further increase versatility.

The 15-NP is based on a 1.5mm pitch, 3-in-1 SMD LED package developed especially for this application by Mitsubishi Electric, using over 30 years of experience derived from its Diamond Vision outdoor screen system. Displays are assembled on site as required from individual LED units measuring 480mm x 540mm. Construction is designed to be quick and easy. LED units feature standard OPS slots, which can accommodate OPS 3G-SDI-input boards or OPS HDBaseT inputs for long-distance signal transmission via CAT6(STP) cable. Dual-loop signal inputs and redundant power supplies ensure the display will continue to function in the unlikely event of an LED unit power failure. Dynamic power consumption features actively monitor image luminance and adjust power output accordingly to optimize power consumption and reduce operator eye-fatigue - a critical factor in control room applications not addressed by general purpose direct view LED displays. Mitsubishi has

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