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LIGHT FROM SILICON VALLEY

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Mitsubishi Electric Announces Three LED-Based TFT-LCD Modules Powered by Lumileds' Luxeon Technology, Scheduled for 2003 Release

LCDs for Multimedia, Medical & POS Monitors
To Be Unveiled This Week at IDW '02

SAN JOSE, CA (December 4, 2002) — Lumileds Lighting and Mitsubishi Electric Corporation today announced the development of three TFT-LCD modules utilizing Lumileds' Luxeon line of high-brightness Light Emitting Diodes (LEDs). The new systems — designed for multimedia, medical and point-of-sale/factory automation monitors — are the first to take advantage of the ability of the new high-flux LEDs to deliver CCFL brightness as well as better color fidelity, longer life and mercury-free operation.

All three modules will be unveiled Friday at IDW '02, the 9th International Display Workshops, in Hiroshima, Japan, following presentations by Lumileds and Mitsubishi Electric's ADI (Advanced Display Inc.) subsidiary on the use of Lumileds' Luxeon LED technology for backlights. The systems will be manufactured by ADI and ship to monitor manufacturers during the second half of 2003.

Applications for the new modules include:

- **17.5" multimedia monitors** (500 nits), giving graphic artists and other users the benefit of increased color fidelity and tunable white points that permit adjustment for different applications such as DVDs and Excel spreadsheets.

- **15.1" XGA medical monitors** (250 nits), featuring a high aperture ratio inplane switching (IPS) panel for a wide viewing angle that will allow for easier medical consultations. The tunable white points, improved color fidelity and improved clarity of the LED technology will also facilitate accurate diagnoses.

- **12.1" SVGA point-of-sale and factory automation monitors** (350 nits), offering lower maintenance costs through long life and self-adjusting brightness and color levels, plus better viewability in bright interior environments such as convenience stores.

In all three cases, Lumileds' Luxeon technology will provide a wider color gamut with more saturated and lifelike colors than fluorescent-based systems. Luxeon's ultra-

bright display will also include a light output feedback system that automatically maintains brightness and color levels throughout the life of the monitor.

Another critical advantage for monitor manufacturers is the modules' mercury-free operation, which facilitates compliance with new environmental laws.

"Building these modules around Lumileds' chip-controlled technology will give monitor manufacturers a new set of value propositions to offer their customers," said Kazuhiro Kobayashi, Manager of Mitsubishi Electric Corporation's LCD Design and Development Department. "LED-based displays will raise the bar in functionality and provide the most important advance in the monitor market since the flat screen."

About Mitsubishi Electric Corporation
With over 80 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation (FTSE: 6503q.l) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and construction. The company has operations in 34 countries and recorded consolidated group sales of over US$33BN in the year ended March 31, 2001. Additional information on Mitsubishi Electric is available at www.mitsubishielectric.com.

About Lumileds Lighting
Lumileds Lighting is the world's leading manufacturer of high-power LEDs and a pioneer in the use of solid-state lighting solutions for everyday purposes including general lighting, automotive lighting, traffic signaling, signage and LCD backlighting. The company's patented Luxeon Power Light Sources are the first to combine the brightness of conventional lighting with the small footprint, long life and other advantages of LEDs. Lumileds also supplies core LED material and LED packaging, manufacturing billions of LEDs annually. A joint venture between Agilent Technologies and Philips Lighting, Lumileds is headquartered in San Jose, California, with operations in the Netherlands and Malaysia and sales offices throughout the world. For more information, call Lumileds at 877-298-9455 or visit www.lumileds.com.

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