


The SmartSwitch™ Product Line

A Comprehensive Line of 20 Products to Complement Any Application

Resolution 64 x 48	OLED	OLED IS (Organic LED) Multifunction Switch & Display Number of Pixels For Switch: 64 x 48 Number of Pixels For Display: 52 x 36 Number of Colors: 65,536 Available: July 2008 Patent Pending	
			
Resolution 64 x 32	LCD	IS High Resolution LCD Multifunction Switch & Display Number of Pixels For Switch or Display: 64 x 32 Backlight RGB: 64 Colors Available: July 2008	IS Compact LCD Multifunction Switch with High Resolution Number of Pixels For Switch: 64 x 32 Backlight RGB: 64 Colors Available: October 2008
			
Resolution 36 x 24	LCD	IS Standard LCD Multifunction Switch & Display Number of Pixels For Switches or Displays: 36 x 24 Backlight: Monochrome, 2 Colors, RGB	IS Compact LCD Multifunction Switch & Display (Custom) Number of Pixels For Switches: 36 x 24 Backlight: Monochrome, 2 Colors, RGB
			
		Standard Size	Compact Size



Committed to Our Customers' Needs

Over the past half century, NKK Nikkai has developed three million variations of switches in our perpetual quest to meet the changing needs of the switch market. Our contributions span a vast range of fields, including satellite equipment, computers, communication, FA, medical industry, control and measurements. We have become a leading manufacturer based on trust gained from our customers as we proved to serve with dedication and quality that superseded expectations. Today it is still our mission to provide solutions for industries requiring switches that are superior to all others.

Visit our web site for dimensioned drawings and other technical details on any SmartSwitch™ products. Please contact us so that we may assist you further or answer any questions.

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ISO9001 and ISO14001 Certifications



008-05-CU-A



JULY, 2008

the **NEWEST**

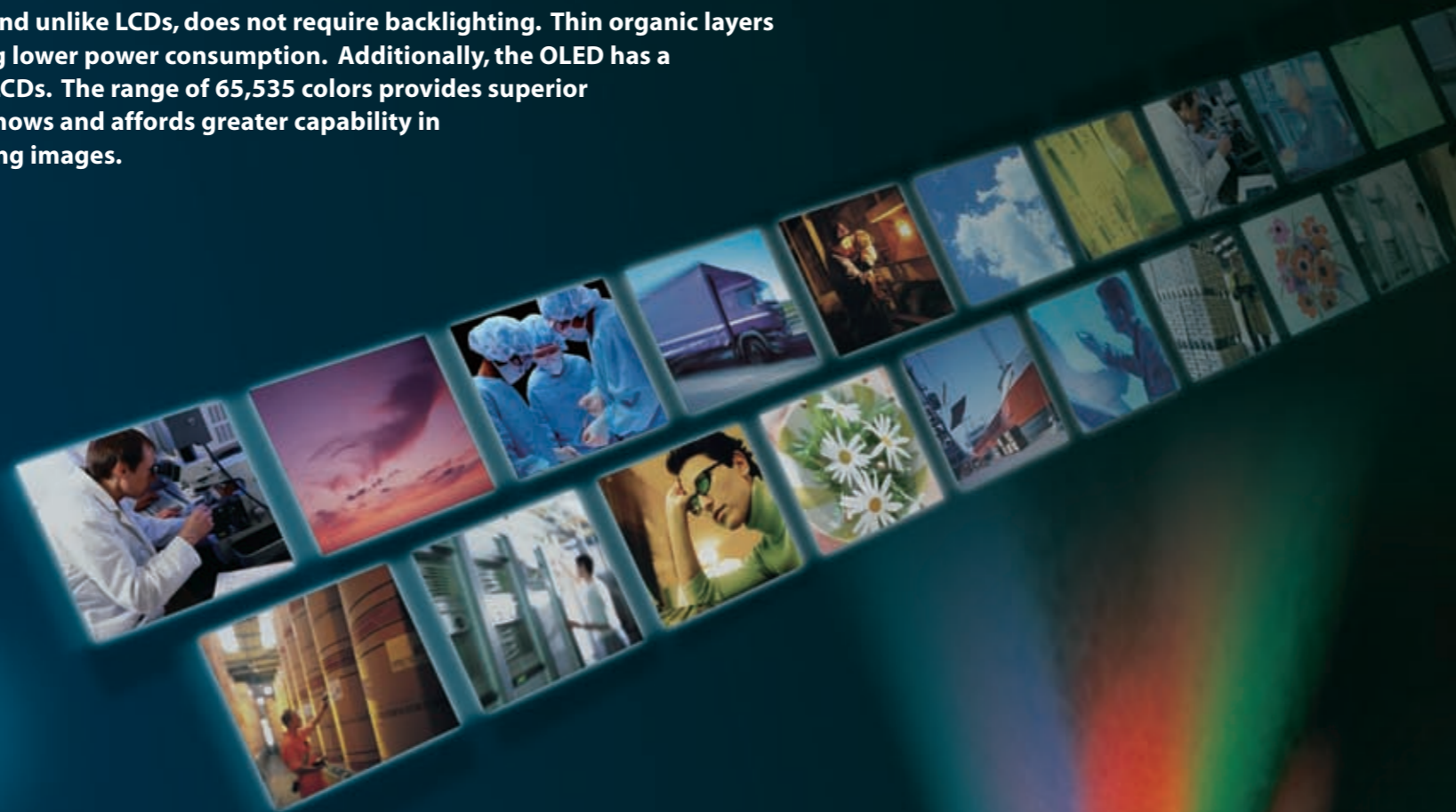
OLED Multifunction Switches & Displays

Nihon Kaiheiki Ind. Co., Ltd.
www.nikkaiswitches.com

Switches are an integral part of our lives and the point of contact between man and machine. NKK Nikkai's IS Series has proven to be an easy and practical interface as technologies advance. And now, we are proud to offer our newest member of the SmartSwitch™ family, the OLED Programmable Switch, bridging us with the next level of technological solutions.

OLED Technology Defines Clarity!

The OLED IS display is emissive, and unlike LCDs, does not require backlighting. Thin organic layers serve as a light source, permitting lower power consumption. Additionally, the OLED has a much faster response time than LCDs. The range of 65,535 colors provides superior format for image files and slide shows and affords greater capability in displaying text, graphics or moving images.



OLED Multifunction Switches & Displays

[OLED Technology] A Multitude of Unique Characteristics

- ◆ High-definition-the range of 65,536 colors in 16bit provides superior formats
- ◆ Resolution - Sharp, clear images of very small characters
- ◆ Contrast - Exceptionally rich quality, 50 times greater than previous LCDs
- ◆ 180° Viewing Angle - Images distinguishable at a glance, from a distance



OLED IS is Loaded! OLED Multifunction Switches & Displays

NKK Nikkai has developed a multifunctional device that capably replaces LCD solutions. OLED technology is now offered in the IS Series, for both switch and display. Experience **65,536** colors, sharp, definitive images rich in brightness and contrast, and a resolution that will furnish a superior format for image files and slide shows. An impressive viewing angle of 180° allows image recognition from any direction and from a distance.



Specification	Pushbutton Switch	Display Module
Display Element	OLED	OLED
Number of Pixels	64RGB x 48 pixels	52RGB x 36 pixels
Number of Colors	65,536 colors	65,536 colors
Viewing Area	15.5mm x 11.6mm	12.9mm x 9.9mm
Operating Temperature Range	-20°C to +70°C	-20°C to +70°C

IS High Resolution with Impact! 64x32 LCD programmable Switches & Displays

Create impact and control backlight colors and eight levels of brightness with NKK's 64 x 32 high resolution LCD screen. Quiet, smooth operation and long stroke of 4.5mm complement this functional device. Images are maintained via an internal refresh control. The viewing area supports as many as four lines of text and ten characters per line. LCD module with RGB LED backlighting is available in switch or display.



IS Compact has Big Advantages! 64x32 Compact Switch

The compact IS offers vibrant illumination and low energy consumption, yet readily designs into restrictive spaces. This programmable LCD offers a variety of LED backlighting, variable in eight steps, and crisp, tactile feedback. As with our standard IS products, the compact offers incredible reliability with a minimum of one million operations.



*36x24 compact switch is available as custom product

Typical Applications

There are virtually endless applications for the SmartSwitch™. The IS Series programmable devices can be used alone or in conjunction with electromechanical switches to facilitate unlimited functions.

- Ticket Machines • Image Equipment
- Audio Equipment • Education Equipment • Line Monitors
- Auto Control Equipment • Vending Machines
- Broadcast Equipment • Transportation Delivery
- Operation Information Management