

# Software Imaging Embedded Systems

Leading Edge Technology for Your Embedded Printing & Imaging Needs

Designed to meet the needs of the digital imaging device market, Software Imaging's embedded systems offers powerful printing and imaging capabilities through a flexible embedded software platform.



## **Flexibility: Meet your product requirements**

- Broad set of features & functionality
- Multiple connectivity options
- End-to-end solution or individual subsystems

## **Quality: Required by demanding end-users**

- Leading-edge printing and imaging technology
- Meeting the image quality needs of millions of consumers world-wide

## **Savings: In a thin-margin environment**

- Lower development & market entry costs
- Faster time-to-market

## **Stability: On which to build a winning product**

- Proven on a series of internationally marketed devices
- Worldwide support through offices in Asia, Europe, and North America

## **Empowering Digital Imaging Devices**

Designed to meet the unique needs of the growing digital imaging peripherals market, Software Imaging's embedded software is a powerful, flexible solution to your embedded printing & imaging needs.

Whether you're designing a printer, digital camera, mobile phone or media centre, our market-proven technology provides the image decoding, display, editing, storage, and printing capabilities your end-users demand.

Taken as an end-to-end embedded platform or as a selection of RTOS-portable subsystems, our solution gives you complete control over the implementation of your product specifications.

Leveraging decades of expertise in printing technology, our embedded printing subsystem manages all aspects of the printing process while offering partners the flexibility to ensure cross-brand consistency and best-in-class quality. At the same time, our imaging

subsystem provides a long list of critical features including JPEG/TIFF/DPOF decoding, extensive image manipulation functionality, and TV/LCD display capabilities.

An extensive library of peripherals and device drivers is provided to offer the greatest possible choice in storage and connectivity options, including SD cards, hard drives, CD R/W drives, Pictbridge, USB, and Bluetooth support.

With internal resources in high demand and technology constantly changing, Software Imaging represents a stable, leading-edge partner to help you deliver your imaging products to market on-time and under budget.

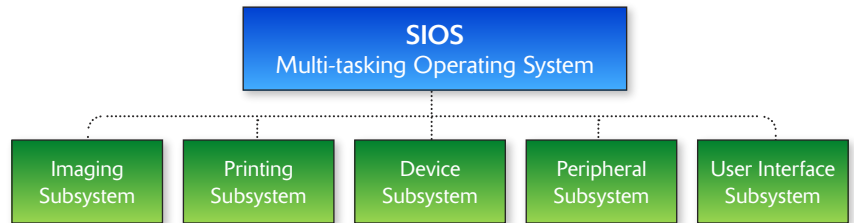
## Complete Solution for Embedded Image Control

- Decoding
- Display
- Storing
- Editing
- Printing

## Designed for Digital Imaging Devices

- Photo Printers
- Inkjet and Laser MFPs
- Digital Copiers
- Digital Cameras
- Mobile Phones
- Set Top Boxes
- Media Centers

## A Complete Printing & Imaging Ecosystem



## SIOS: Multi-tasking Embedded Operating System

SIOS is a multi tasking, pre-emptive operating system designed specifically for embedded systems. Taken as a complete solution or individual subsystems, it provides image decoding, display, editing, storage, and printing capabilities to any device. Available as a fully documented code library, written in C, each individual function is supported by a simple API.

### Imaging Subsystem

- JPEG, TIFF, and Digital Print Order Format (DPOF) decode
- Image manipulation, including: Rotate, Pan, Zoom, Red eye Reduction, Color Adjustment
- TV & LCD display
- Frame Capture

### Printing Subsystem

- Inkjet and dye-sublimation printers
- Data preparation & management
- Flexible dithering options: Fast Error Diffusion, Quality Enhanced Error Diffusion, Stochastic Screens, Better Ordered Screens
- Color tables that can be defined by the Software Imaging team or your own in-house experts

### Device Subsystem

- SD, Compact Flash, PCMCIA
- Hard drives
- CD R/W drives
- ZIP drives
- Prom Driver

### Peripheral Subsystem

- Pictbridge (printer- and camera-based implementations)
- USB 1.1 & 2.0 (host- & client-based implementations)
- Bluetooth
- IEEE 1284 Parallel
- Serial
- I2C Bus

### User Interface Subsystem

- Drivers for LCD displays
- Multi-language menus
- Drivers for switches & indicators

## About Software Imaging

Founded in 1989, Software Imaging is the world's largest independent supplier of Printer Driver Technology, Embedded Systems, Consumables Applications and Professional Services. Software Imaging is at the forefront of global innovation in printing and imaging software, and has licensed technology to a long list of device suppliers. Customers include Canon, EPSON, Hewlett Packard, Konica, Lexmark, Microsoft, Océ, Olivetti, Ricoh, Samsung, Sharp, Toshiba, Xerox and many others. Software Imaging is also the Microsoft development partner for Unidrv.

## Contact Us

Contact us today to discuss how our Embedded Systems can help you bring your imaging device to market on-time and under budget. For more information:

**Web:** [www.softwareimaging.com](http://www.softwareimaging.com) **Email:** [info@softwareimaging.com](mailto:info@softwareimaging.com)



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