PRESS RELEASE
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e-con Systems launches Full HD Intraoral Camera for OEMs

Sharp. Accurate. Fast. Built for precision intraoral imaging.

Tags: OEM Intraoral Camera | Intraoral Camera | Full HD | FOV | Dental Imaging | Macro Imaging | | USB 2.0 | USB 3.0 | Image Signal Processor | Customizable Camera

California & Chennai (July 15, 2025): e-con Systems®, a leading global provider of embedded vision solutions, is excited to introduce its latest Full HD Intraoral Camera—DensiCAM designed with two decades of imaging engineering excellence. It combines advanced optics, high resolution CMOS sensor and onboard image signal processing, all in a compact, plug-and-play form factor. Whether it is for diagnosing, documenting, or educating, this camera ensures clarity and accuracy in every shot. DensiCAM is the newest addition to e-con's growing dental imaging portfolio and is now available on the dedicated dental website: Dental Imaging – Powered by e-con Systems

DensiCAM's image sensor and optics are perfectly matched to deliver industry-leading image sharpness with excellent MTF even at close focusing distances. With <2% distortion, it confirms minimal geometric deviation, vital for accurate clinical observation and documentation. With a depth of field ranging from 5mm to 80mm, DensiCAM captures clear images across a wide range of distances, suitable for full-mouth intraoral coverage from anterior teeth to molars—in a single frame. Its wide 90° field of view enables coverage for both quadrant and individual tooth views to effortlessly capture up to three teeth in one shot.

The camera supports both USB 2.0 and USB 3.0 interfaces, delivering high-speed data transfer at 60 frames per second. This enhances the workflow for clinicians and dental imaging software providers.

Figure 1: Full HD Intraoral Camera

"Over the years, we've closely collaborated with dental imaging companies and found that integrating camera modules and optics, while ensuring top-tier image quality - is a major challenge. With DensiCAM, we offer a ready-to-integrate intraoral camera that delivers superior image quality, reduces development effort, cuts costs, and speeds up time-to-market," says Balaji, Medical BU Head at e-con Systems. *"It's designed specifically for OEMs like intraoral camera makers and dental equipment providers,"* he adds..

Other Key Features:

- Advanced illumination: Integrated white and UV LEDs (45K lux at 15mm) provide uniform lighting, minimizing glare and hot spots—ideal for enamel and soft tissue clarity.
- Multiple imaging modes: Includes default mode, color enhancement mode, sharpness enhancement mode, and full-face mode for a wide range of clinical use cases.
- AI diagnostics ready: Enables AI-based detection of caries, plaque, gingivitis, and fractures.
- Plug-and-Play Interface: Supports USB 2.0 and USB 3.0, compatible with TWAIN-enabled dental software for seamless workflow.

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- Regulatory compliance: Meets global standards including CE, FCC, RoHS, REACH, and ISO 23450.
- Customizable for OEMs: Fully configurable to meet specific imaging, ergonomic, and branding requirements.

Availability

To evaluate the capabilities of DensiCAM, please contact us at camerasolutions@e-consystems.com and purchase the product.

Customization and Integration Support

e-con Systems offers customization services and end-to-end integration support for the Intraoral camera, ensuring that unique application requirements can be easily met. For customization or integration support, please contact us at camerasolutions@e-consystems.com.

About e-con Systems

e-con Systems® designs, develops, and manufactures OEM cameras. With 20+ years of experience and expertise in embedded vision, it focuses on delivering vision and camera solutions to industries such as retail, medical, industrial, mobility, agriculture, smart city, and more. e-con Systems' wide portfolio of products includes Time of Flight cameras, MIPI camera modules, GMSL cameras, USB 3.1 Gen 1 cameras, stereo cameras, GigE cameras, HDR cameras, low light cameras, and more. Our cameras are currently embedded in over 350+ customer products, and we have shipped over 2 million cameras to the United States, Europe, Japan, South Korea, and many other countries.

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