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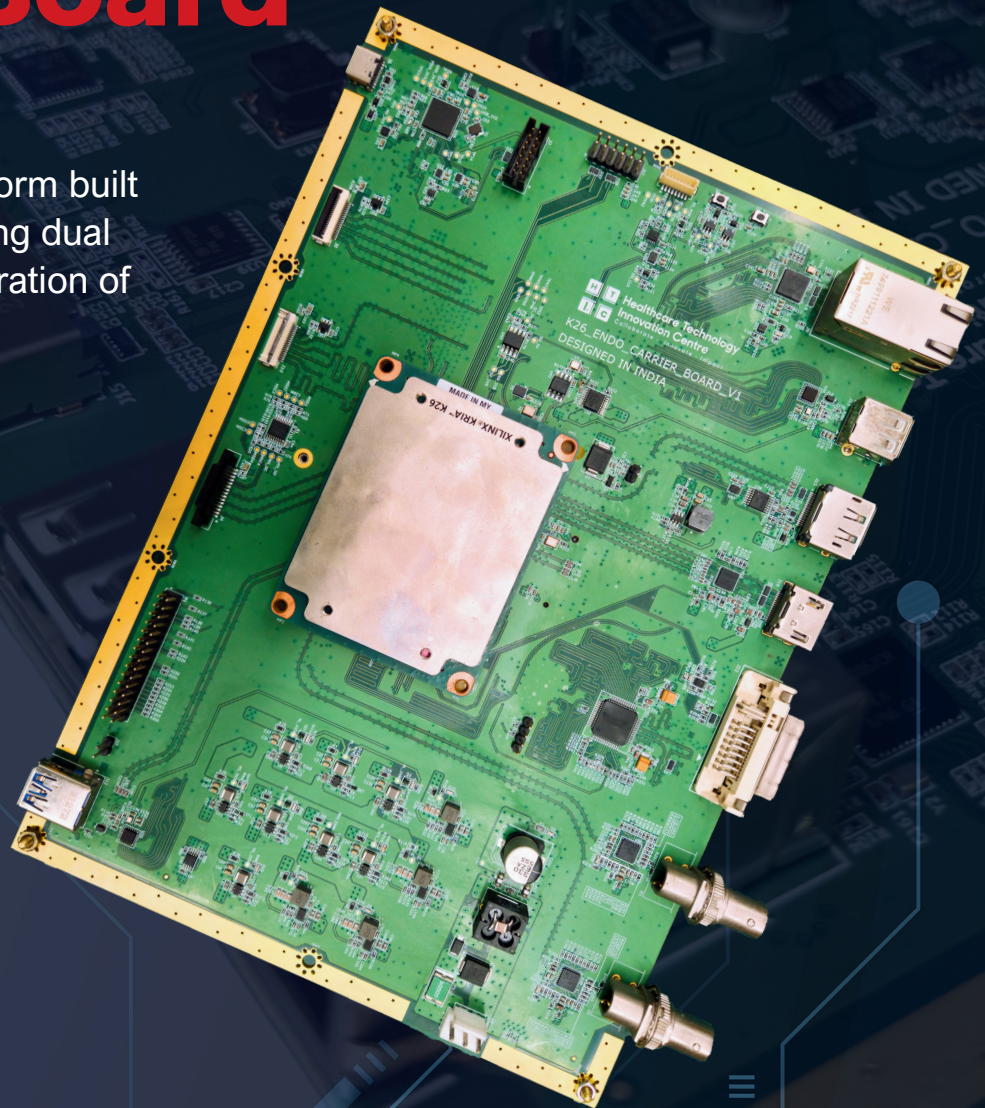
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# Healthcare Technology Innovation Centre

Collaborate · Innovate · Impact

# Custom Imaging Solution Board

A high-performance imaging platform built for advanced visualization, featuring dual MIPI interfaces for effortless integration of high-resolution cameras.



— A joint initiative of —



Indian Institute of Technology  
Madras

Dept. of Biotechnology  
Ministry of Science & Technology

# Custom Imaging Solution Board



## HIGHLIGHTS

- **Dual MIPI Camera Interfaces**  
Includes dual MIPI CSI interfaces for High-Resolution camera integration
- **Ultra HD Output & Multi-Format Support**  
Multiple 4K Digital Video Outputs plus Full HD via DVI
- **Flexible UI Input & Storage Options**  
Supports SDI video input, 50 hours of video internal storage (expandable), and real-time network streaming
- **Fully Customizable for OEM Needs**  
Designed for rapid deployment with customizable hardware options including DSI touch or membrane panel interfaces

## TECHNICAL SPECIFICATIONS

Parameters	Values	
<b>Power Supply</b>	Rated Voltage	12VDC @ 6A
	Rated Frequency	50 / 60 Hz
<b>Size</b>	Dimensions	254 x 177.90 mm
	Weight	500 g (Approx.)
<b>External Input</b>	Video Input	1 x SDI 1080p @ 60fps
<b>Outputs</b>	Video Output	1 x Digital DisplayPort 4k @ 60fps
		1 x Digital DisplayPort 1080p @ 60fps
		1 x SDI 12G 4k @ 60fps
		1 x DVI 1080p @ 60fps
<b>Memory Backup</b>	SATA SSD	Up to 1TB
<b>Features</b>	Sensor Interface	2 x 4 Lane MIPI
	UI Interface	Keypad or Touch panel

## Imaging

Colour tone adjustment	Supported
White Balance	Manual White Balance
Edge Enhancements	Delicate Patterns or Edges can be enhanced for a sharper view
Freeze	Yes
Enhanced 2D	Yes
MVE	Mucosal and Vascular Enhancement using white light NBI
BCS	Multi-Level Brightness, Contrast, and Saturation control
IRIS	Auto light control (Peak and Average)
Zoom	Normal / 1.25x / 1.5x
Illumination	Customizable

**Note:** All the imaging parameters are customizable

Customizable User Interface

AI-Ready Platform

Multi Format Outputs

Real-Time Network Streaming

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