

Endoscopy AI Solution

IEI has over a decade experiences in providing endoscopy imaging processing solutions

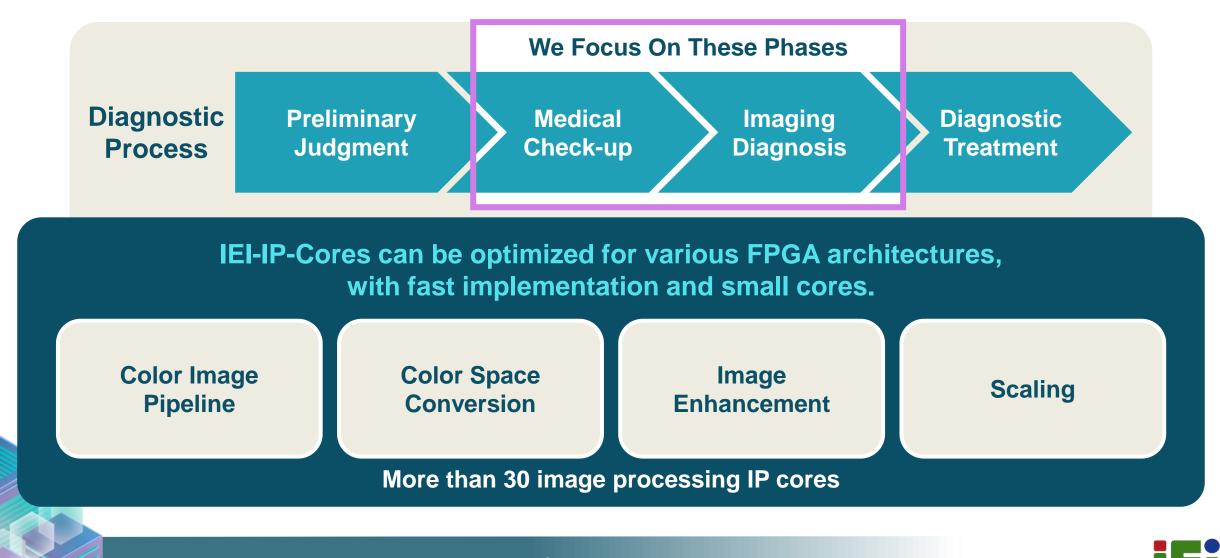


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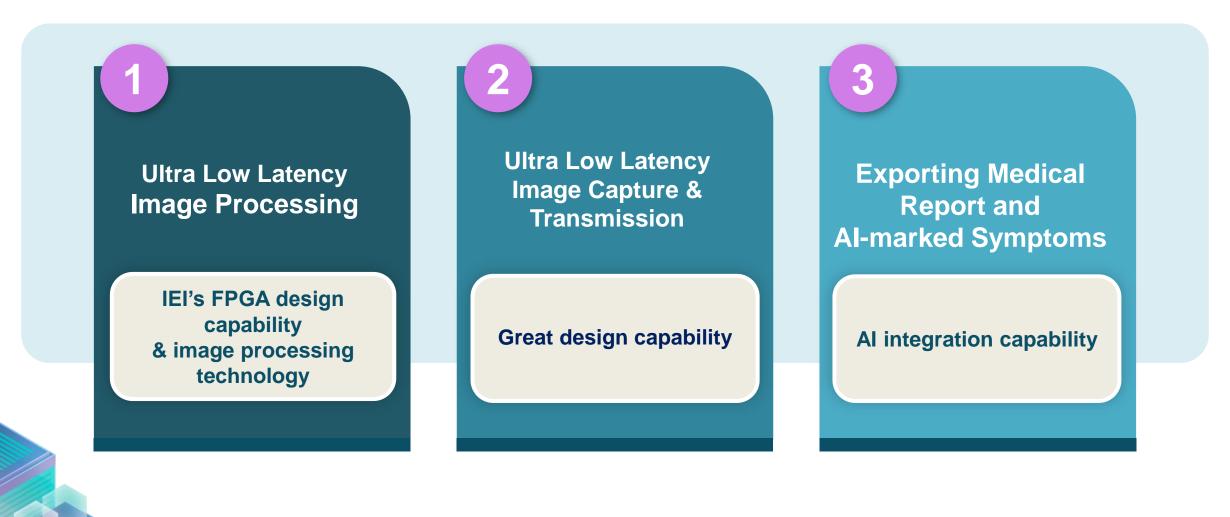
TEDIC/A

» IEI Image Processing Pipeline Solutions

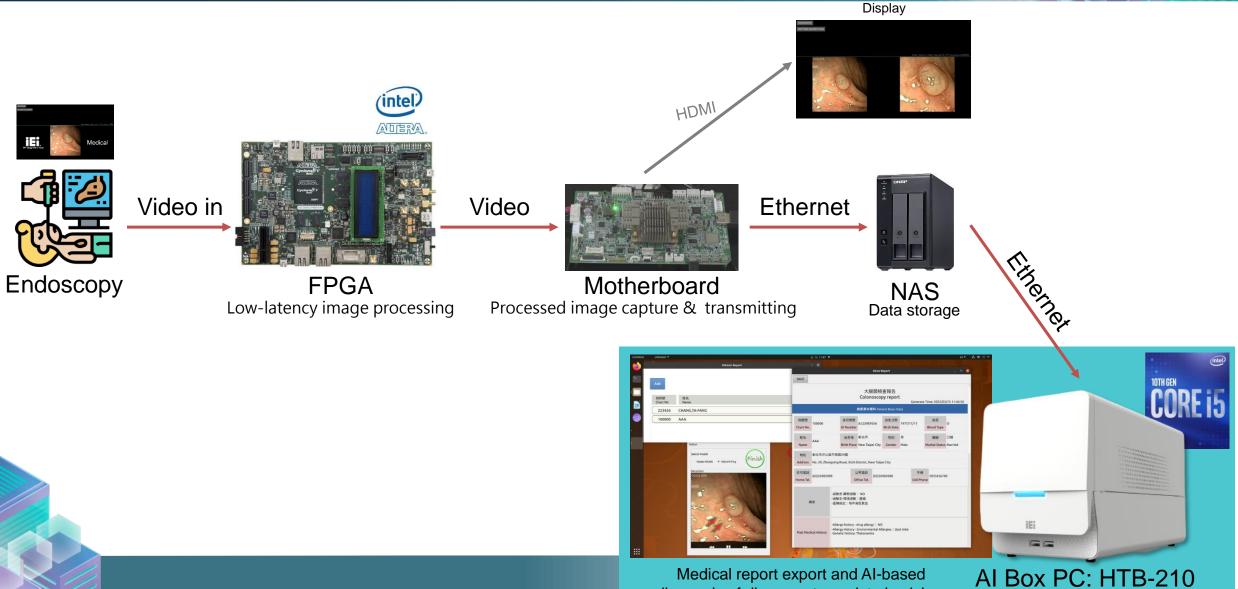


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» Endoscopy Al Solution Features

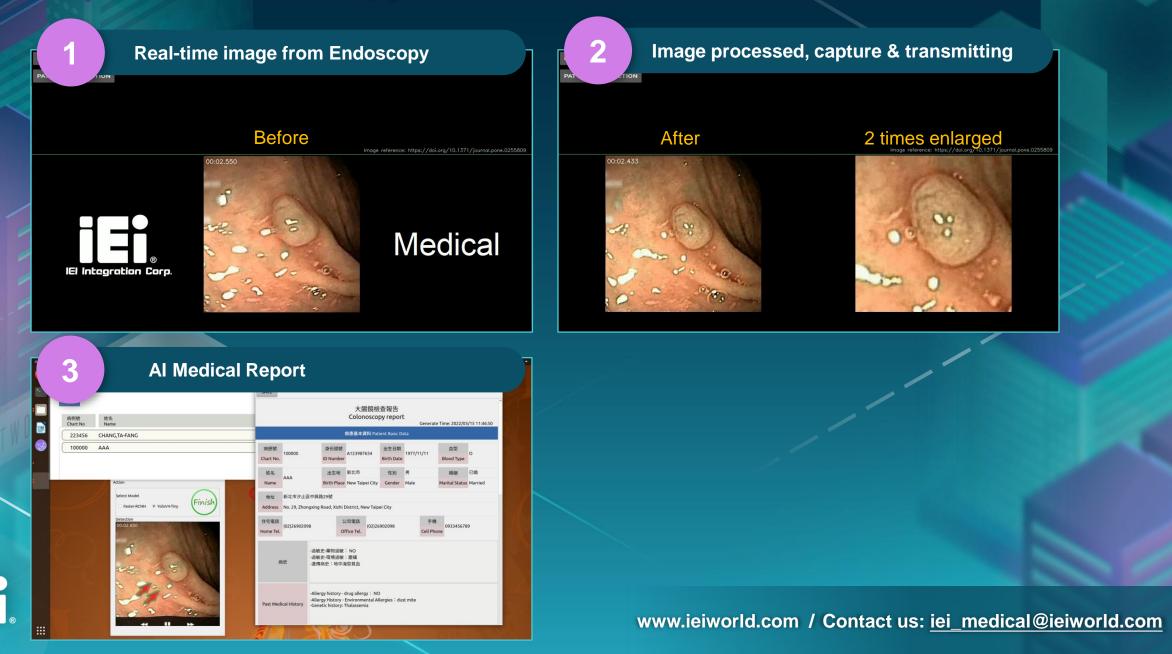


» Endoscopy Al Solution Workflow



diagnosis of diseases to assist physicians

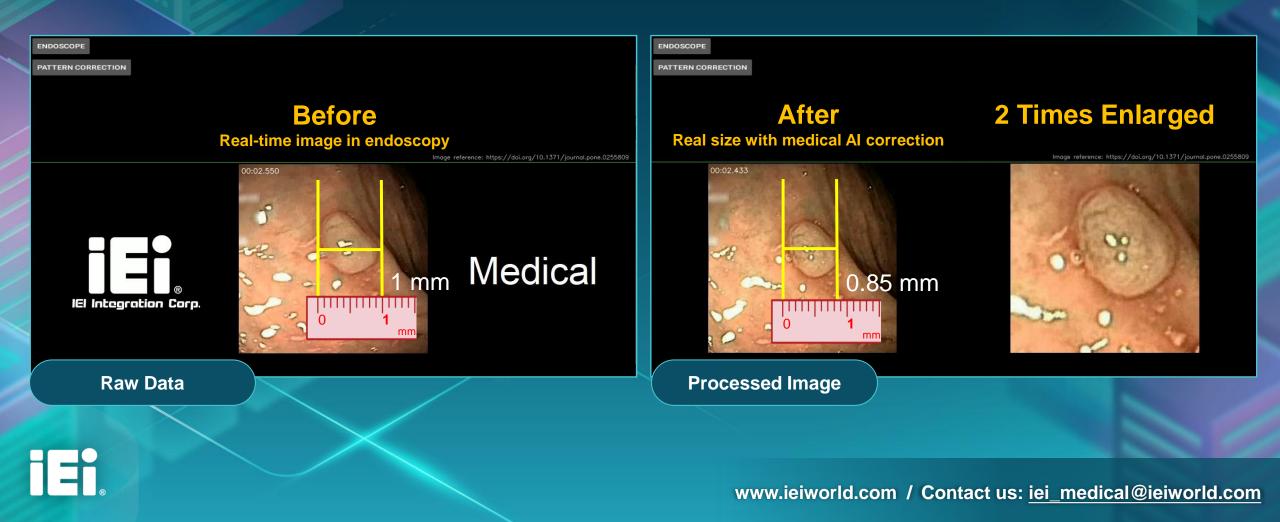
Endoscopy AI Solution Demonstration





Ultra Low Latency Image Processing

- Perfectly reflect the real image
- Improve AI recognition accuracy by 4% (Yolo-v4)



» Increase Recognition Accuracy

Increase adenomatous identification rate from 81.3% to 85.7%. Our solution can improve the identification rate up to 4%.

Before: Endoscopy raw data (Distortion image)



(Yolo-v4)

After: Restored image Image processed by FPGA





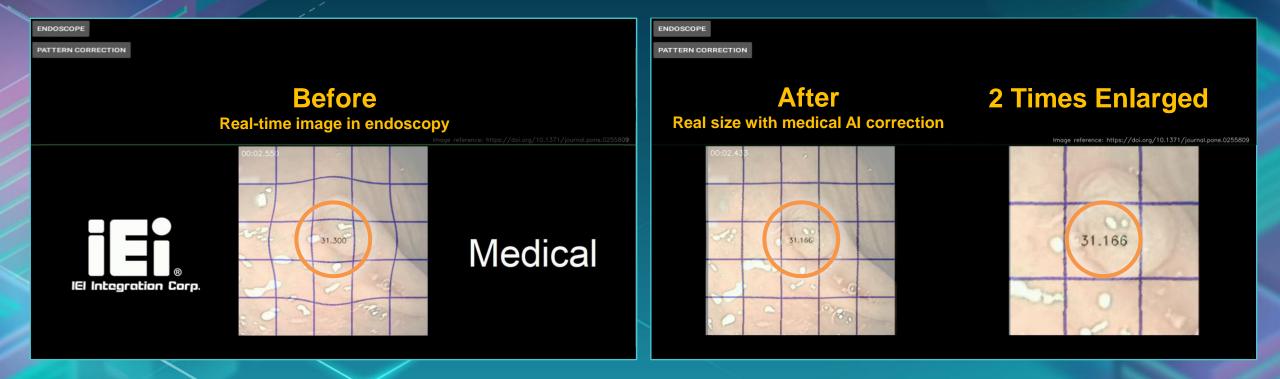
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H-H

Ultra Low Latency Image Capture & Transmission

• Image transmission latency is less than 200ms

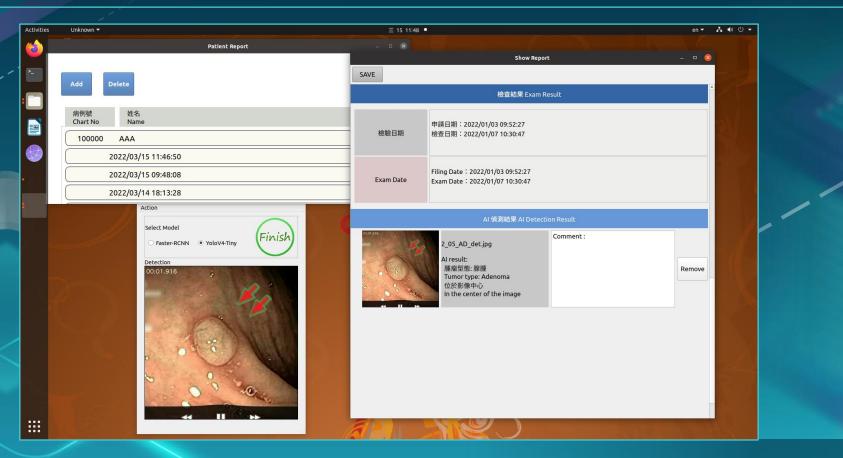


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Exporting Medical Report & Al Marked Symptoms

- Use AI functions to assist physicians in symptom identification with customizable medical reports
- Reduce physicians' medical report preparation time after patient examination



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