aetherAI | Endo

Real-time AI-Powered Colorectal Polyp Detection

Collaborating with National Taiwan University Hospital and Cathay General Hospital, aetherAl Endo is specifically developed to improve real-time polyp detection during colonoscopy. Utilising tens of thousands of annotated data covering various clinical scenarios, aetherAl Endo is trained to perform polyp detection with a high accuracy of 95%, aiming to help improve the quality and consistency of colonoscopy.



Real-time Inference

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Performing real-time AI inference at 30 FPS, with less than 0.2s monitor to monitor latency.

Plug-n-play Solution

Begins working immediately after being connected to a colonoscopy machine. No extra integration efforts are required.

Vendor Neutral Design

aetherAl Endo currently works well with Olympus CV-260, CV-290 and Fujifilm VP-7000 endoscopy machines.

Increased Consistency

Consistently detect colorectal polyp including SSA, tubular adenoma, hyperplastic polyp and others with a high accuracy of 95%.

Enhanced Security

We adopt hardware-bounded software license and Advanced Encryption Standard for enhanced data security with no internet connection needed.

Multiple Light Modes

aetherAI Endo supports different light modes, including WLI, NBI, BLI, LCI, and in staining.

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aetherAI | Endo Product Specifications



Software

Function	Colorectal Polyp Detection
Frame Rate	30 frames per second
Input Signal	1920x1080 Serial Digital Interface (SDI)
Alert	Localize polyp with on-screen bounding box and sound alert
Compatible Model	Olympus CV-260, CV-290; Fujifilm VP-7000
Compatible Mode	White Light Imaging, Narrow Band Imaging, Blue Light Imaging, Linked Color Imaging, and in staining (Methylene Blue)

Al Box

Size	Dimensions 18.5 x 14.5 x 7.5 cm ; Weight 2.8 kg
CPU	8-core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3
GPU	512-core Volta GPU with Tensor Cores
Memory	16GB 256-Bit LPDDR4x 137GB/s
Storage	32GB eMMC 5.1
0S	Nvidia Linux for Tegra 32.3.1
Power Supply	100 - 240V ~, 1.5 - 0.6A, 50 - 60HZ





Accessories (Optional)

Integrated Pedal	3 inputs (switch on/off sound,
	adjust volume, activate/deactivate Al
Monitor	Suggested resolution 1920x1080



* Change of product compatibility, specifications, technical modifications or package offerings may be required as the product evolves.