

NEXGEN FACT SHEET

Highlights

1. High-Resolution Imaging

Cutting-edge sensors for enhanced accuracy in every detail.

2. Vibrant, True-to-Life Visuals

Enhanced contrast, brightness, and spectral clarity—see everything.

3. Multiple Monitors, One System

8 display outputs—perfect for collaborative OT environments.

4. Ready for the Future

4K@60fps, AI enhancements, and easy upgrades to keep you ahead.

5. Multi-scope compatibility

Works seamlessly with gastro, colonoscopy, and duodenoscopy systems.



Technical Specifications

PARAMETERS		VALUES
Power supply	Rated Voltage	100 - 240 VAC
	Rated Frequency	50 / 60 Hz
Size	Dimensions	405 x 400 x 180mm
	Weight	7.5 kg (Approx.)
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	A structural enhancement technique that increases local contrast while preserving important textures and preventing noise over-amplification
	MVE	Mucosal and Vascular Enhancement using white light NBI
	BCS	Multi-Level Brightness, Contrast, and Saturation control
	AI Features	Super-Resolution (subject to reliability)
	DPC	Auto Defective Pixel Correction
	IRIS	Auto light control (Peak and Average)
Zoom	Zoom	Normal / 1.25x / 1.5x
	Illumination	White LED at Endoscopy Tip
Features	Supported Scopes	Colonoscope, Gastroscope, Duodenoscope
	User Interface	Touch-Based GUI on 7 inch Display
	Controls	1 x USB 2.0, 1 x USB 3.0, 1 x RJ 45, 3 x Remote
External Input	Video Input	1 x SDI @ Full HD 60 fps
		2 x SDI @ 4K 60fps 3 x Digital DisplayPort @ 4K 60fps 1 x Digital DisplayPort @ FullHD 60fps 2 x DVI @ FullHD 60fps
Memory Backup	Lithium Battery	5 Years
	Settings	User presets and system level settings
	Video Recording	MKV recording @ FHD / 4K 60 FPS
	Image Save	JPEG @ FHD

Designed by :

HEALTHCARE TECHNOLOGY INNOVATION CENTRE

HTIC-IIT Madras, IITM Research Park, Chennai.

website: [www.https://endo.hticiitm.org](https://endo.hticiitm.org)

Email: endoscopy@htic.iitm.ac.in Contact : +91 9482427152