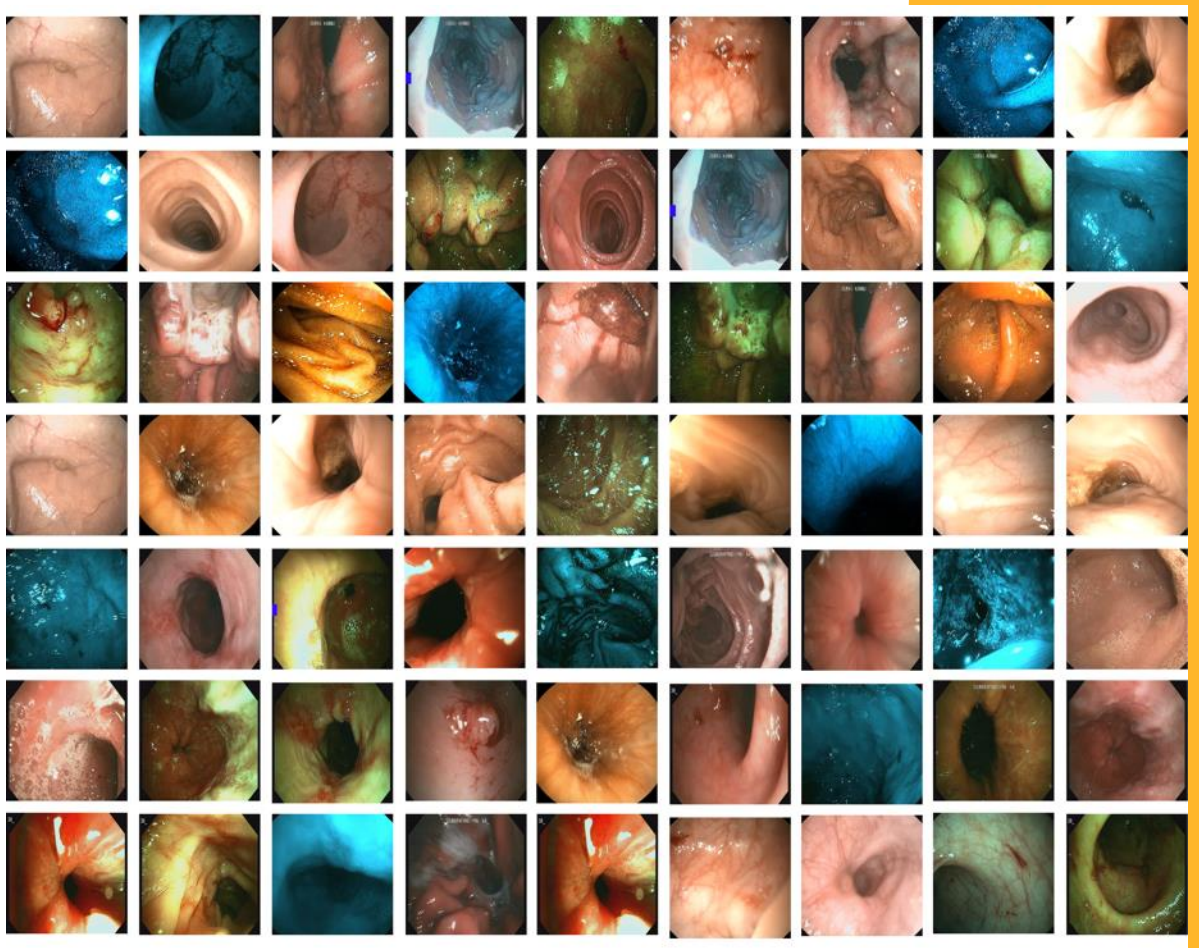
MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY



mBLU ATLAS

MITRA
Experience Peace of Mind

Ottomed ENDOSCOPY

mBLU1

mBLU 2

White Light

White Light

Dr. Meenakshi, Dr. Vinit Kumar and Dr. Prasad Bane
LTMG Hospital, Mumbai GI Surgery Department

Procedure: Video OGD Scopy
Patient Gender: Male
Patient Age: 49 years
Symptoms: Epigastric pain and regurgitation.

Pedunculated polyp at pylorus

49 years male with epigastric pain and regurgitation with no significant findings on clinical examination unresponsive to empirical therapy for 15 days undergone diagnostic OGD scopy which showed pedunculated polyp at pylorus, biopsy taken was suggestive of hyperplastic polyp.

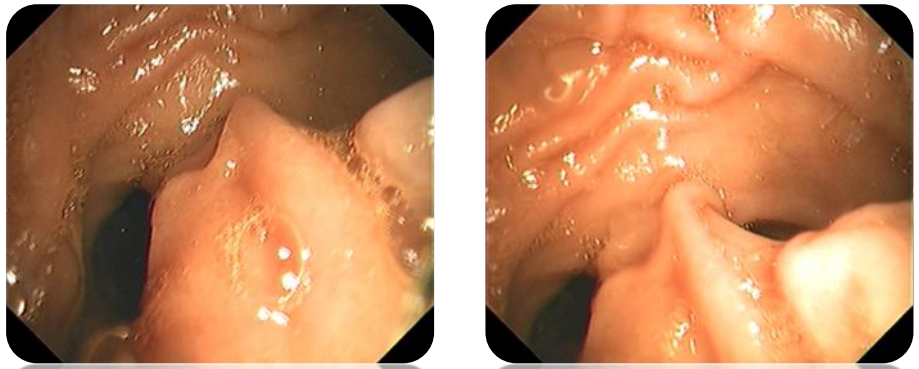
Follow up endoscopy was done after histopathology report to excise the polyp with snare and cautery. 1:10000 adrenaline in saline injected at the base and snare was used with cautery at the pedicle for excision. Polyp was retrieved using basket.

Post procedure there was no bleeding from mucosa at the base of excised polyp.

mBLU
Case Studies

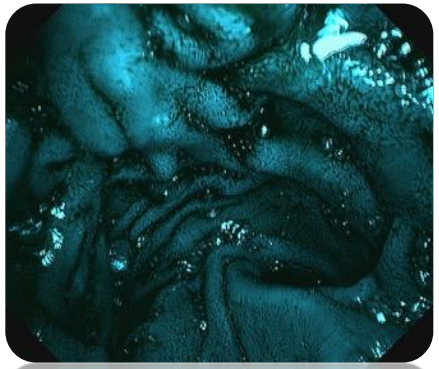
MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY



White Light

mBLU 1



mBLU 2

Dr. Nimesh Shah, M.S., Mumbai
(Consultant Laparoscopic & GI Surgeon & Endoscopist)

Procedure: Video Colonoscopy
Patient Gender: Male
Patient Age: 65 years
Symptoms: Bleeding in stool
Impression: Normal Colonoscopy

Rare finding of long based Lipoma

65 years old male presented with acute GI bleed with frank blood in stools. Patient was on Ecospirin 150mg till 2 days prior to admission.A colonoscopy & upper GI scopy was performed. Colonoscopy showed clots & streaks of blood in the colon. Upper GI scopy showed a long-based lipoma (confirmed by CT scan) which gave a double lumen appearance in the first past of duodenum which is a very rare observation. A CT angiography did not elicit active blush in any part of the bowel.

The patient settled with blood transfusion bowel wash & conservative management.

mBLU
Case Studies

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

mBLU 1

mBLU
Case Studies

Dr. A. S. A. Jegannathan, M.D., Madurai Scopy

Procedure : Video Gastroscopy

Impression : Fundal Varices

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

White Light

mBLU 1

mBLU
Case Studies

Dr. A. S. A. Jegannathan, M.D., Madurai Scopy

Procedure : Video Sigmoidoscopy
Patient Gender : Male
Patient Age : 38 years
Impression : Plaque like lesions seen in sigmoid colon

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

2 Tech-in-1

HD

What does *mBLU* technology do?

Deep detection of mucosal and sub-mucosal tissue helps in better diagnosis and impacts the patient treatment outcomes. Option of comparing different tissue structures impacts diagnosis.

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

Introducing the

mBLU®

Experience

mBLU's advanced optical & light sensor technology used multi-LEDs (wavelength 400-700nm & 450nm) eliminating energy consumption & expensive Xenon light sources.

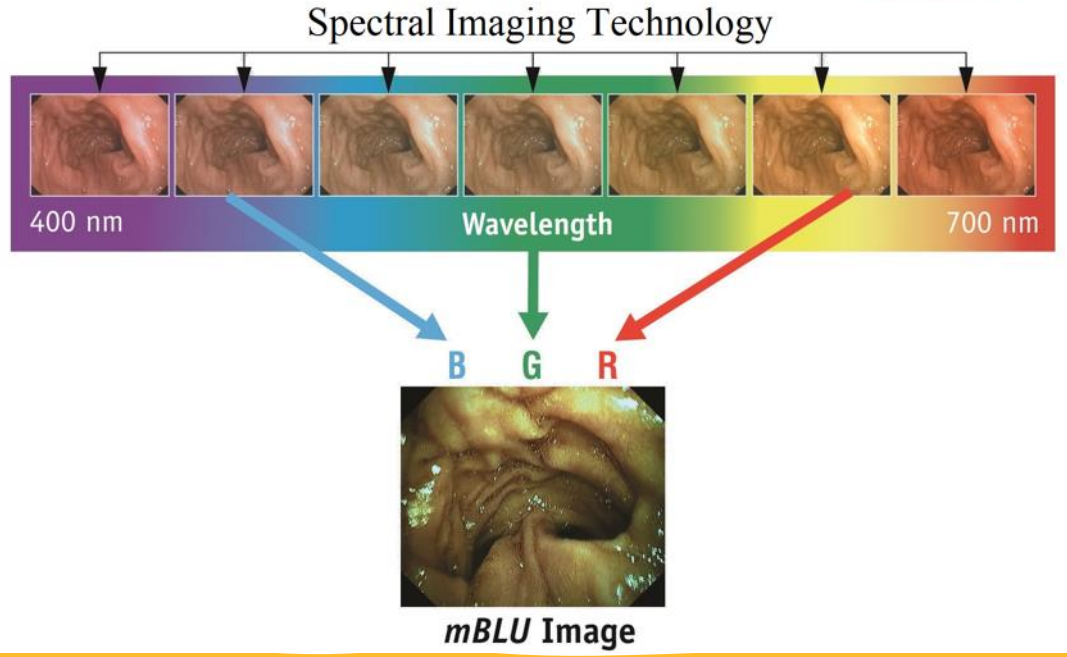
The possibility of detecting and characterising lesions / polyps increases due to brighter & clearer endoscopic images provided by **Image-Enhanced-Endoscopy (IEE)** using ***mBLU***.

mBLU is MITRA's next-generation image technology which helps medical experts detect early-stage cancer and provide high quality **lifecare**.

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

Ordinary Images
(White Light Images)



mBLU1
Spectral Mucosal Tissue Structure Enhancement

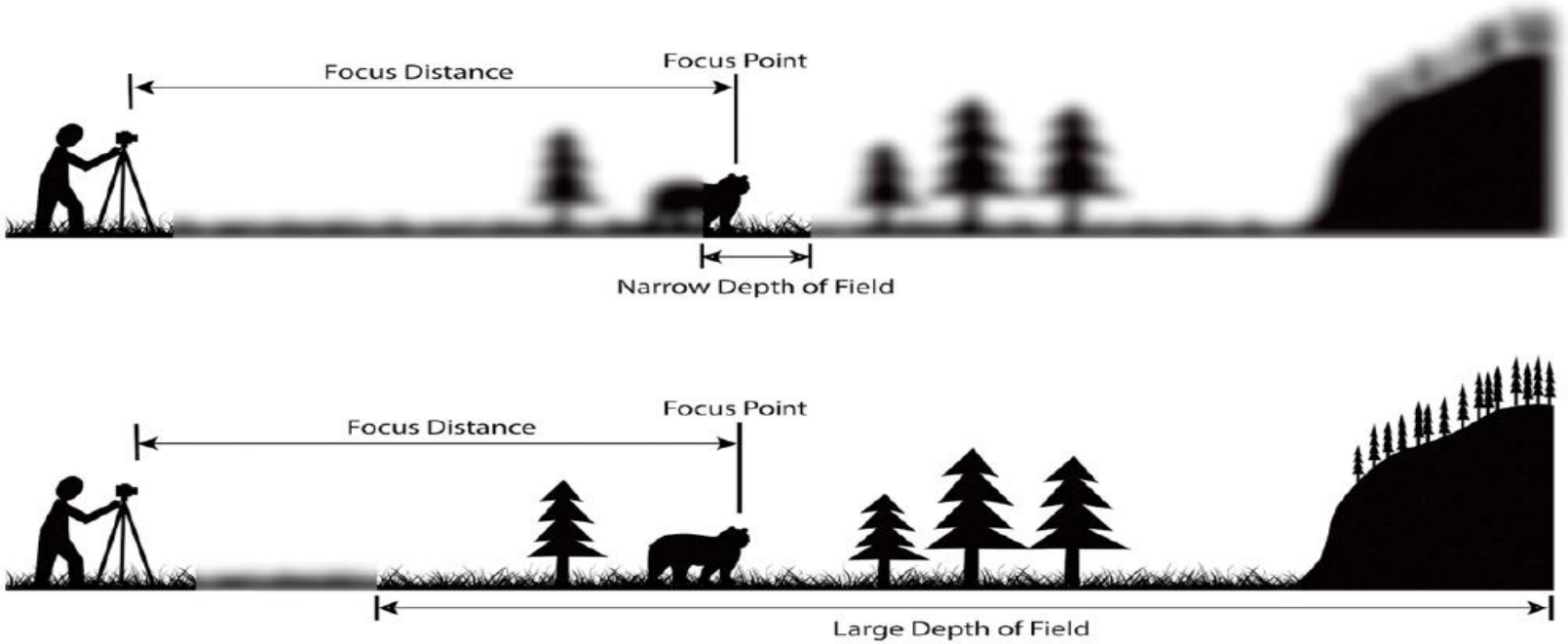
Spectral Imaging assists in increasing the diagnostic yield and provides a better characterization of lesions.

mBLU1 provides an option of detection of lesions of “minimal” Esophagitis, of Dysplasia in Barrett’s Esophagus and of Squamous Cell Esophageal Cancer.

Being less invasive and time consuming than the classic dye methods, the use of mBLU1 aims to result in an improvement in the visualization of the early gastric cancer and improve characterization of colonic lesions.

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY



mBLU2

Vascular Architecture Visualisation

mBLU2 Blue Light technology is vital to visualise the vascular microarchitecture on the mucosal surface. The blue light penetrates the superficial epithelium & visualises microstructures in the mucosa as well as the sub-mucosa. This mode can facilitate differentiation of adenoma from invasive cancer. The mBLU2 is dedicated to more close-up view or detailed view.

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

mBLU2 Mode

mBLU2 is based on the principle of optical spectral visualisation using LED-At-Tip as light source eliminating the need of a Xenon light source.

mBLU2 does not need mechanical and color filters for generating spectral light as they have a tendency to deteriorate over a period of time. Deteriorated fiber bundles in scopes further reduce light intensity causing further darkness in the scope.

mBLU2 works with a single custom-made Fibreless LED-At-Tip with wavelength which is an average of blue and green filters. mBLU2 highlights capillary vessels of the subepithelial layer of the mucosa and provides better visibility of vessels of submucosal layer. We call it the “Depth” mode. (Use near focus mode while using mBLU2). mBLU2 is based on principle of absorption of particular wavelength of light by the hemoglobin.

Experienced endoscopists can derive good diagnostic results using mBLU2.

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

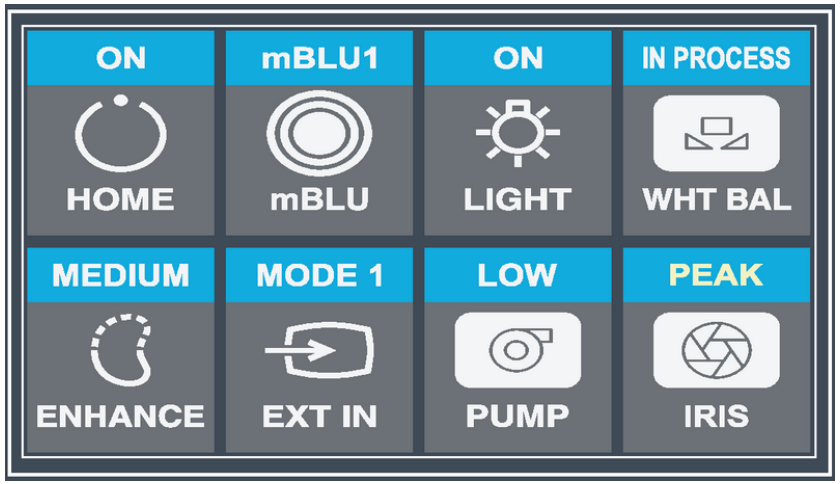
Advantages:

- Precision diagnosis & identification helps in early detection of Cancer & Mucosal pattern changes.
- Both **mBLU** modes options are available in a single endoscopy unit with one touch button operation.
- Low operational cost & user-friendly.
- The diagnostic ability using the **mBLU** system allows more accurate discrimination of adenomas from non-adenomatous lesions as compared with conventional white light.

mBLU1: Spectral Mucosal Tissue Structure Visualisation
mBLU2 : Deep Vascular Architecture Visualisation

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY



Smart Touch Screen Interface

OTTOMED Endoscopy Systems with mBLU

Good Design provides a Great User Experience.

Simplified User Interface: User Friendly operations via a single Smart Simple TouchScreen

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

Ottomed
ENDOSCOPY

MITRA is the first & the **only** Indian company to completely design and manufacture Endoscopes and related ancillary products in India in a state-of-the-art manufacturing facility.

Launched in 2012, Ottomed Endoscopes have become leaders in endoscopy technology having introduced the world's first endoscopes "LED-AT-TIP" patented technology.

Today, Mitra has successfully installed more than 1,000 endoscopy devices across the country.

Our specialised customer support teams are ready support your needs of prompt & friendly service.

MITRA
Experience Peace of Mind

Ottomed
ENDOSCOPY

Thank you

Mitra Industries Pvt. Ltd.

B-226, Okhla Industrial Area,

Phase-I, New Delhi 110020.

Toll Free: 1800 1020 307

Email: ottomed@ottomed.com