

## EMERGING TECHNOLOGIES

**NISSHA**  
MEDICAL TECHNOLOGIES

**ENDOTHEIA**

### Precision Steering With TheiaScope Integration

Nissha Medical Technologies drives innovation in medical technology by investing in and integrating emerging technologies such as deflectable and selectively articulated distal tips, advanced visualization and sensing, and NMT Isometric micromolding capabilities. We partner closely with physicians, OEMS, and startups like EndoTheia to understand unmet clinical needs and translate them into customized solutions.

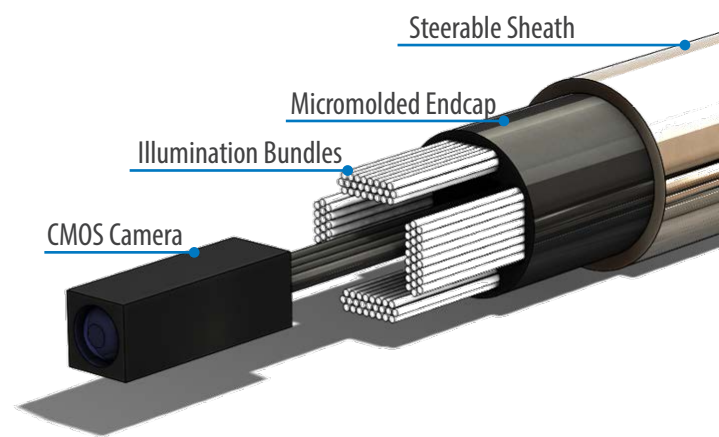
Plug-and-play  
video processor

3.3F Distal Tip



### CLINICAL APPLICATIONS

- Flexible/Endoluminal Robotics
- Flexible Endoscopy
- Urology
- Otolaryngology (ENT)
- Gastroenterology
- Cardiovascular
- Neurosurgical
- Pulmonology



## EMPOWERING OEMS

**ENHANCED REACH** Increase anatomical access in your endoscopes with EndoTheia's articulation technology

**ADVANCED VISUALIZATION** Integrate custom camera modules and illumination

**DRIVING SMALLER CONSTRUCTS** Enable precise steering with compact mechanisms and micro-molded components

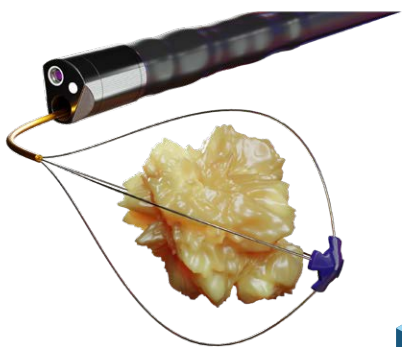
**SEAMLESS INTEGRATION** NMT's design, manufacturing, and commercialization expertise



# EMERGING TECHNOLOGIES

## 01 MINIATURIZED STEERING CONSTRUCTS

- Smaller and smaller, increased accessibility
- Quicker recovery, fewer complications
- Advanced diagnostics in MIS devices



## 05 ADVANCED ELECTRONICS

- High-res imaging with endoscopic cameras
- Force and pressure sensors
- Wireless data transmission

## 04 CMOS INTEGRATION

- Sensor alignment with custom lens assembly
- Raw image testing and calibration
- Integrated light fibers

## 02 SURGICAL VISUALIZATION

- Custom camera modules
- Miniaturized high resolution modules
- Advanced diagnostics in MIS devices

## 03 PRECISION MACHINING

- Tissue interfacing components
- Tight tolerance laser and traditional machining
- Fine-tuned assemblies

## 06 MICRO MOLDING

- High precision tooling
- Successful filling of high aspect ratios parts
- Slides and lifters to create complex geometries



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