

# Department of ENT

## Technical Specifications for Flexible Video Bronchoscope (Outer Diameter 5.8 mm)

10/3/26

The system must be a wireless digital flexible video bronchoscope with chip-on-tip camera technology for high-quality endoscopic imaging.

The bronchoscope must have an insertion tube outer diameter of 5.8 mm suitable for adult bronchoscopy procedures.

The bronchoscope must have a minimum working channel of 2.6 mm to allow passage of biopsy forceps, suction catheter, Dormia basket, and other accessories.

The bronchoscope must have a working length of approximately 600 mm and total length of approximately 700 mm.

The optical system should provide a wide field of view of approximately 120 degrees for improved visualization of tracheobronchial anatomy.

The bronchoscope must provide a depth of field ranging from approximately 3 mm to 200 mm for clear visualization at different distances.

The bronchoscope must allow two-way angulation with upward bending of approximately 180° and downward bending of approximately 130°.

The system must include a portable display unit with approximately 10-inch touch screen monitor.

The monitor must provide high-definition image resolution (minimum HD) for clear visualization.

The system must have capability for photo capture, video recording, and freeze frame functions.

The system must support data storage through USB / SD card / internal memory.

The bronchoscope should be ergonomically designed, lightweight and easy to manoeuvre during bronchoscopy procedures.

The system must provide minimum battery backup of 3–4 hours for uninterrupted procedures.

The system must have HDMI / USB connectivity for external display and data transfer.

The equipment must be CE / US FDA approved.

**Accessories to be Supplied with the System**

The system must be supplied with the following compatible accessories suitable for 5.8 mm bronchoscope working channel:

- a. Flexible Video Bronchoscope (Outer Diameter 5.8 mm) – 1 No
- b. Portable Monitor / Display Unit – 1 No
- c. Power Adapter / Charging Unit – 1 No
- d. Carrying Case – 1 No
- e. Flexible Bronchoscopic Biopsy Forceps (Reusable / Autoclavable) compatible with 2.6 mm channel – 1 No
- f. Alligator Grasping Forceps for Bronchoscopy suitable for foreign body removal – 1 No
- g. Dormia Basket for Bronchoscopic Foreign Body Retrieval compatible with working channel – 1 No
- h. Cleaning Brush compatible with bronchoscope working channel – 1 No
- i. Leak testing device / maintenance accessories if applicable – 1 Set