

## Endoscopy made easy with Portable Diagnostic Wormscope

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### 1. Technical Paper

In many instances, we need only to examine and screen the upper gastrointestinal tract without intervention. Portable Diagnostic Wormscope could fulfil this task because it is very simple and easy to use instrument. It is essentially similar to the industrial endoscope with modified end to be like worm scope which utilizes the peristaltic movement of worms for self-propelling. The distal moving part (worm scope) is few centimetres in length and about half centimetre in diameter. It consists of many rings that move in sequential pattern and it is made of plastic material with rough surface to enhance its contact with gut mucosa. As in the industrial endoscope, the front of it contains only lens for camera (which should be of high resolution and wide angle) and light sources; the hind part should be conical in shape to facilitate its withdrawal; the distal part of worm scope can be twisted to all directions. It can be connected by a cable to either mobile phone, tablet, or PC. These devices should be downloaded with software to display images and control movements of Portable Diagnostic Wormscope. The software is different from industrial endoscope in that it should contain two types of buttons; one for peristaltic forward movement of worm scope, and the other consists of four buttons to control the movements of distal part (up, down, right, and left). It differs from the traditional endoscope and interventional worm scope in that it requires no processor, big screen; air push, water push, or suction; as well as it is also devoid of instrumentation. Because it is very simple and easy to use instrument, Portable Diagnostic Wormscope can be used anywhere including hospital, clinic, and even in patient's home. It is requiring no preparation (just several hours of fasting), and no anaesthesia or analgesia. It can examine the oesophagus, stomach, and duodenum till the jejunum..

