CLAIMS

1. An endoscope accessory comprising:
    (a) a base member comprising a through-opening, the through-opening configured to accommodate an endoscope;
    (b) a structural member coupled to the base member and enclosing an interior space within the structural member, wherein the structural member comprises at least one moveable arm configured to move between an open configuration and a closed configuration; and
    (c) a working tube disposed in the interior space for accommodating a surgical instrument.

2. The endoscope accessory of claim 1, further comprising an overtube having a proximal end and a distal end, wherein the distal end of the overtube is coupled to an end of the base member opposite the structural member.

3. The endoscope accessory of claim 2, wherein the overtube is formed by a plurality of rings.

4. The endoscope accessory of claim 2 or 3, wherein the overtube comprises a main channel, the main channel and through-opening aligned with each other, for accommodating the endoscope.

5. The endoscope accessory of any one of claims 2 to 4, wherein the overtube comprises a plurality of auxiliary channels for accommodating a plurality of cables.

6. The endoscope accessory of claim 5, wherein the overtube comprises an inner wall and an outer wall, wherein the inner wall defines the main channel and wherein the plurality of auxiliary channels are disposed in a space between the inner wall and the outer wall.

7. The endoscope accessory of claim 5 or 6, further comprising the plurality of cables, wherein at least one of the plurality of cables terminates on the structural member for moving the structural member between the open configuration and the closed configuration, and wherein at least one of the plurality of cables terminates on the working tube for guiding the surgical instrument.

8. The endoscope accessory of any one of claims 1 to 7, wherein the base member further comprises a plurality of auxiliary through-openings for accommodating the plurality of cables.

9. The endoscope accessory of any one of claims 1 to 8, wherein the structural member comprises two moveable arms, the two moveable arms opposing each other on either side of the interior space, wherein the two moveable arms are configured to extend outwards away a longitudinal axis extending along the length of the structural member when the arms are in the open configuration.

10. The endoscope accessory of any one of claims 1 to 9, wherein the endoscope accessory further comprises an outer sheath for covering the structural member.

11. The endoscope accessory of any one of claims 1 to 10, wherein the surgical instrument is any one selected from the group consisting of a grasper tool, an electrocautery tool, a suturing tool, a snare loop, forceps, scissors, a suction tool, an injection tool, a clipping tool and an irrigation tool.

12. The endoscope accessory of any one of claims 1 to 11, comprising two working tubes.

13. The endoscope accessory of any one of claims 4 to 12, further comprising a transmission interface disposed at the proximal end of the overtube, wherein the transmission interface is configured to actuate the plurality of cables.

14. The endoscope accessory of claim 13, wherein the transmission interface is configured to be manually driven to actuate the plurality of cables, or the transmission interface is operably connected to an actuator and configured to be driven by the actuator.

15. The endoscope accessory of any one of claims 13 or 14, wherein the transmission interface comprises a plurality of driven members for actuating the plurality of cables, wherein each of the plurality of cables is connected to one of the plurality of driven members.