

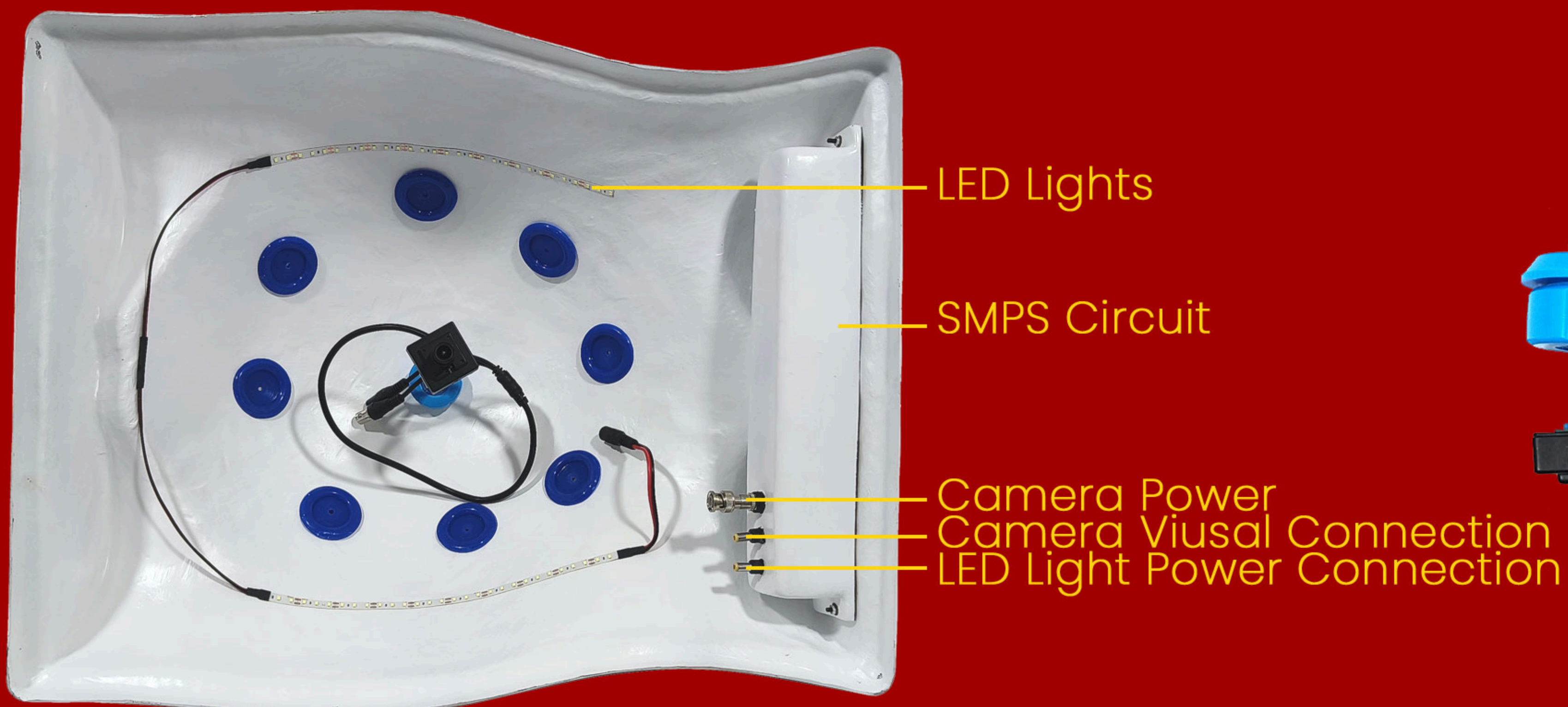
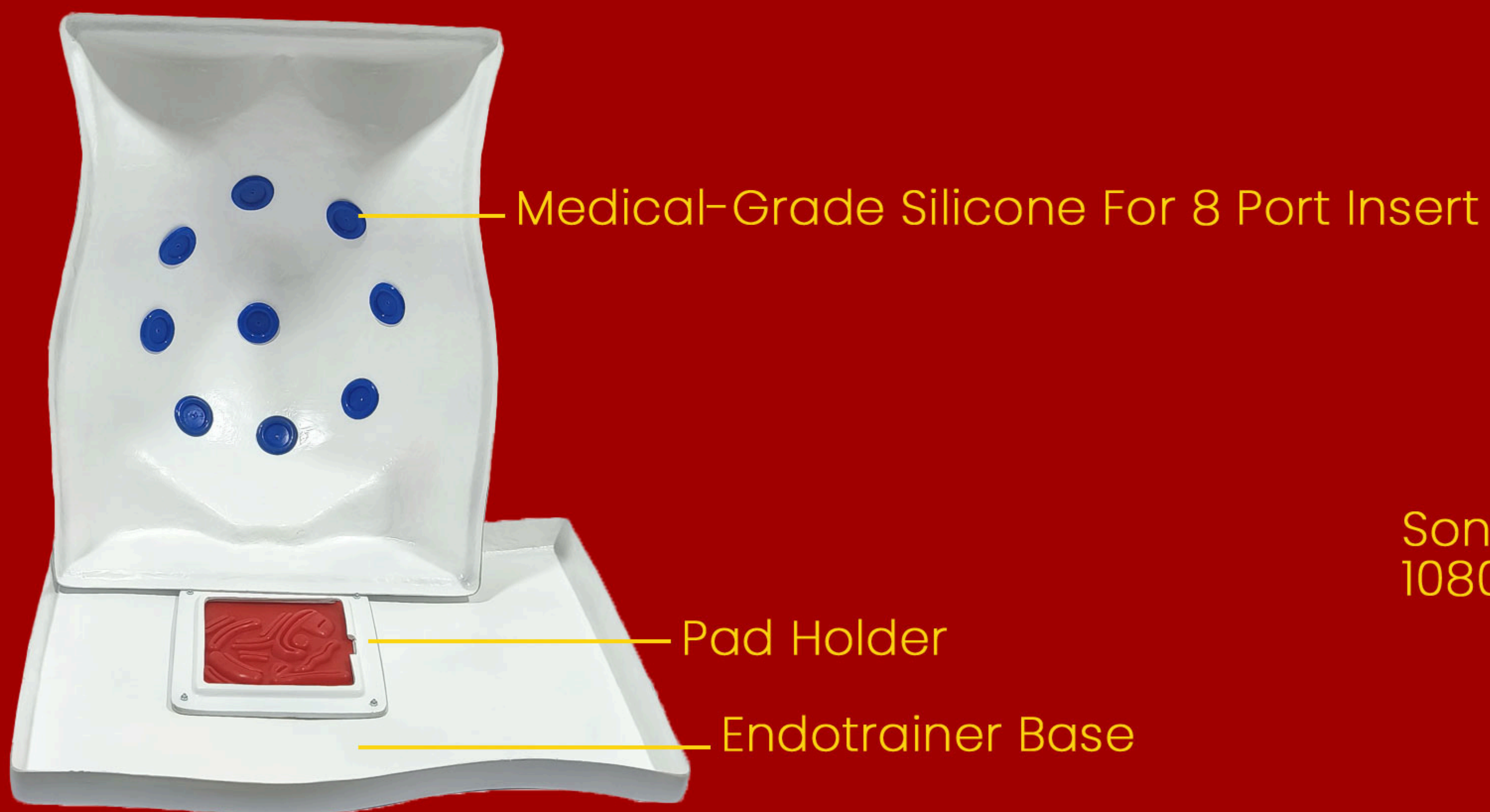
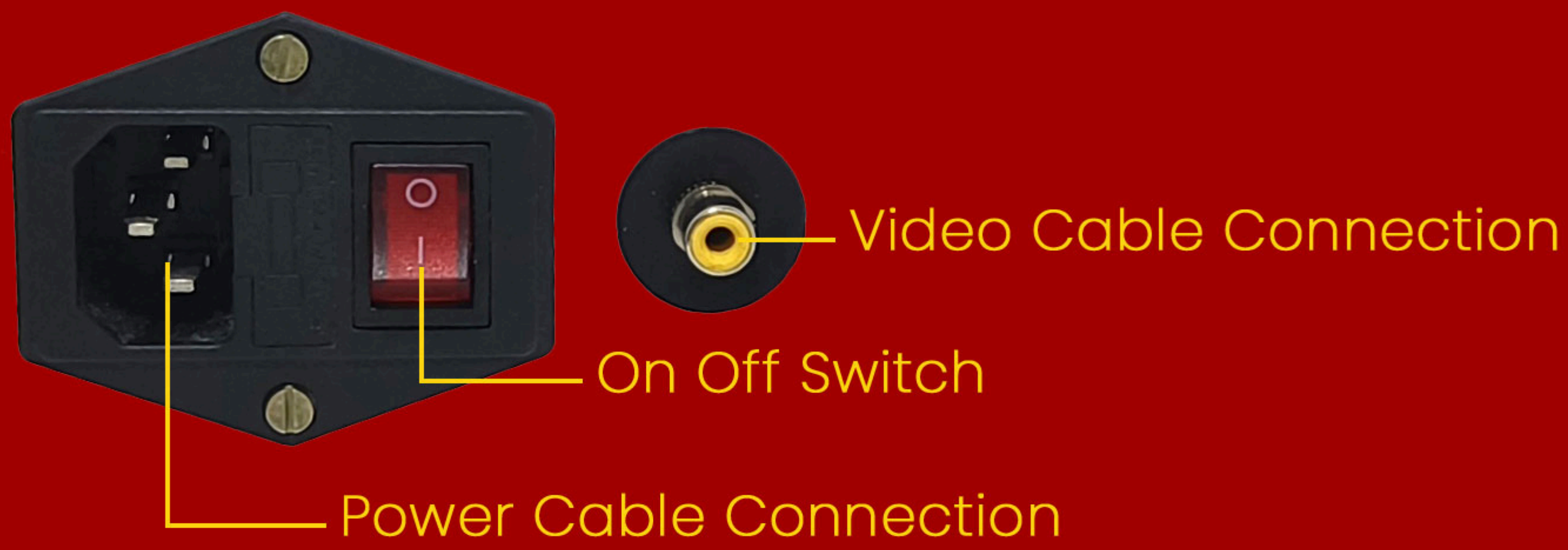
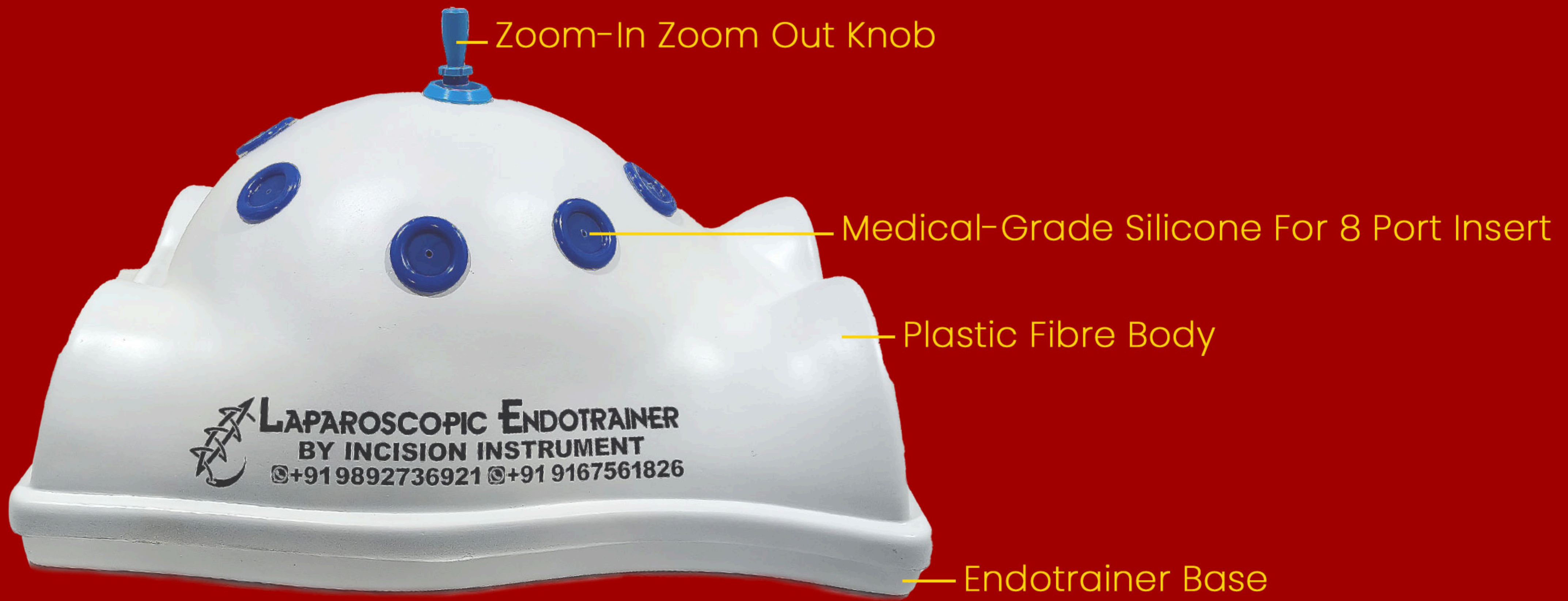
LAPAROSCOPIC ENDOTRAINER

ABDOMEN SHAPE



LAPAROSCOPIC ENDOTRAINER
BY INCISION INSTRUMENT
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Technical Description



1) **Structural Design & Geometry**

-Form Factor:

- Body-shaped upper housing
- Mounted on a base platform

-Anatomical Simulation:

- The curved body shape mimics human abdominal contour, enabling realistic instrument angulation and depth perception

-Low-profile Base:

- Provides stability and prevents tilting during instrument manipulation

2) **Port System (Instrument Access Points)**

-Multiple Circular Ports (Blue Inserts):

- Arranged symmetrically across the dome
- Likely made of silicone or flexible polymer

-Functionality:

- Simulates trocar entry points
- Enables insertion of:
 - Laparoscopic graspers
 - Scissors
 - Needle holders

-Port Characteristics:

- Elastic resistance to mimic abdominal wall tension
- Reusable and replaceable design

-Port Count:

- Approx. 8 visible ports for multi-angle training

3) **Material Composition**

-Main Body:

- High Grade Fibre Plastic

-Features:

- Lightweight
- Impact-resistant
- Easy to clean and sterilize externally

-Port Inserts:

- Medical-grade silicone or rubber
- Provides:
 - Grip
 - Instrument sealing
 - Realistic tactile feedback

4) Surface Finish & Ergonomics

-Matte White Finish:

- Reduces glare under bright surgical lighting

-Smooth Contours:

- No sharp edges | safe handling

-Compact Design:

- Suitable for:
 - Desktop training
 - Simulation labs
 - Portable setups

5) Dimensional Estimation (Based on Visual Scale)

Width: 40–50 cm

Height: 20–25 cm

Depth: 25–35 cm

6) Functional Integration (Implied Internal Features)

- Internal camera mounting system
- LED light integration
- Training modules Holders
- SMPS Circuit Panel
- Camera Power
- Camera Visual Connection
- LED Light Power Connection

7) Training Applications

-Basic Skills:

- Hand-eye coordination
- Depth perception
- Instrument handling

-Advanced Skills:

- Suturing & knot tying
- Tissue manipulation
- Precision cutting

-Specialties:

- General surgery
- Laparoscopy
- Gynecology
- Urology
- Medical Students | Interns
- Residents | Surgical Trainees
- Surgical Teams | Staff

8) Branding & Markings

Printed label indicates:

Product: Laparoscopic Endotrainer

Manufacturer: Incision Instrument

Contact details (likely for direct procurement)

9) Engineering Considerations

- Center of Gravity: Low, due to base | prevents movement during use
- Port Placement Geometry: Designed to simulate real trocar triangulation
- Modularity: Ports may be interchangeable for different training scenarios
- Durability: Designed for repeated insertion cycles without deformation

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