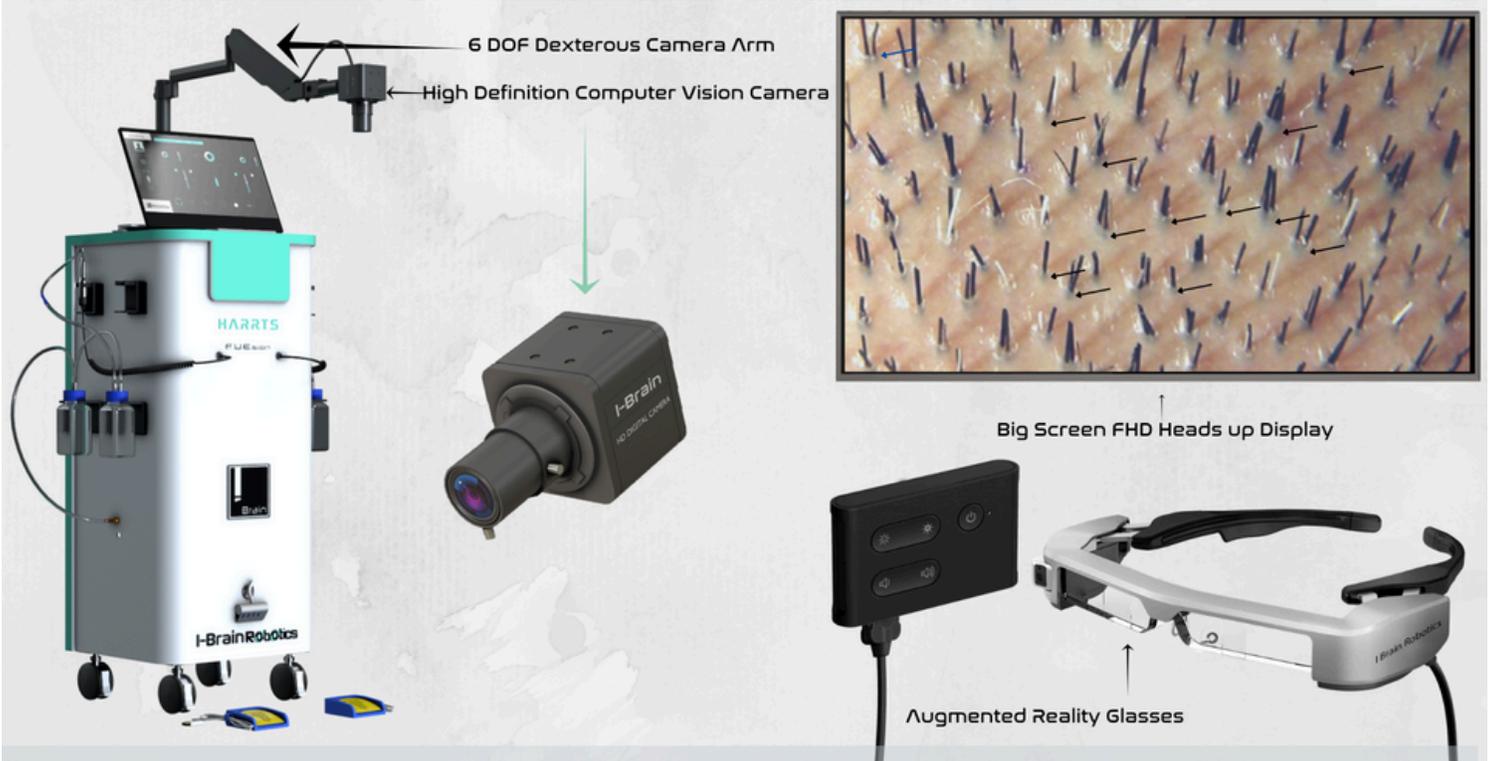


Robotics
Anything is Possible!

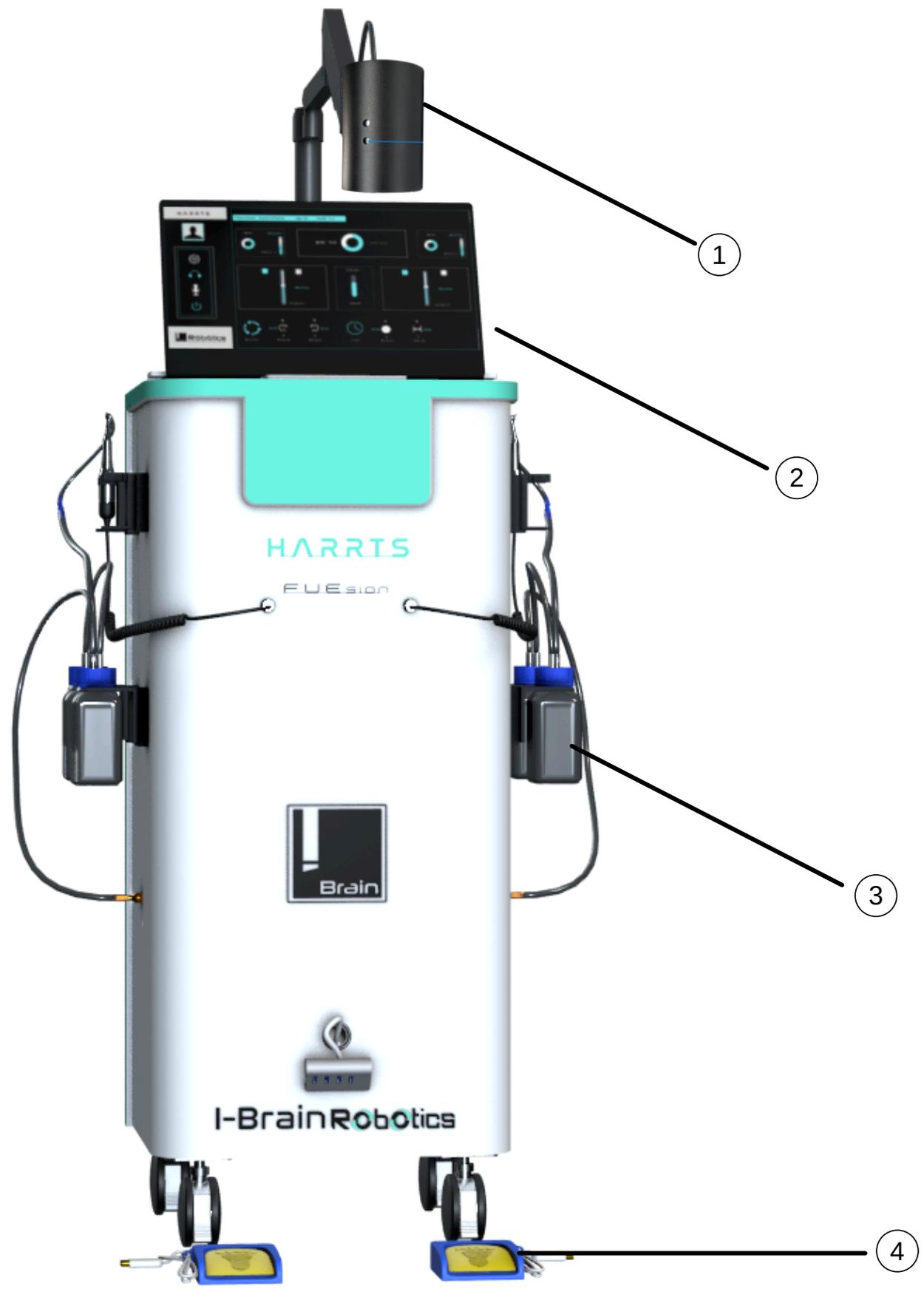


HARRTS FUESION 2.0 **ROBOTIC** HAIR TRANSPLANT SYSTEM

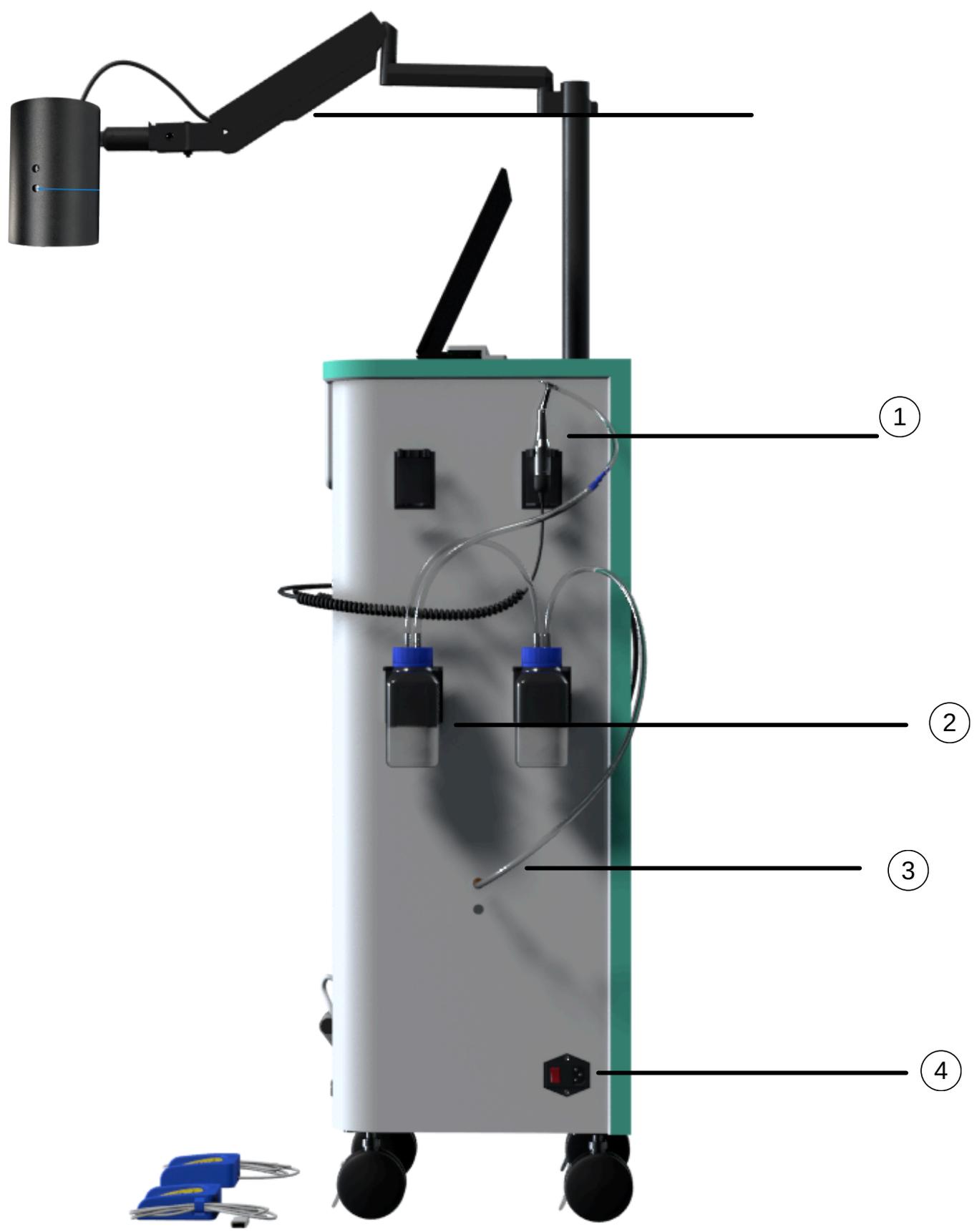
FUESION AI

INSTRUCTION MANUAL

AUTOMATED HAIR TRANSPLANT SYSTEM



- | | | | | | | | |
|---|--------|---|--------------|---|-------------|---|------------|
| 1 | Camera | 2 | Touch Screen | 3 | Suction Jar | 4 | Foot Pedal |
|---|--------|---|--------------|---|-------------|---|------------|



Hand-piece

②

Suction Jar

③

Suction Tube

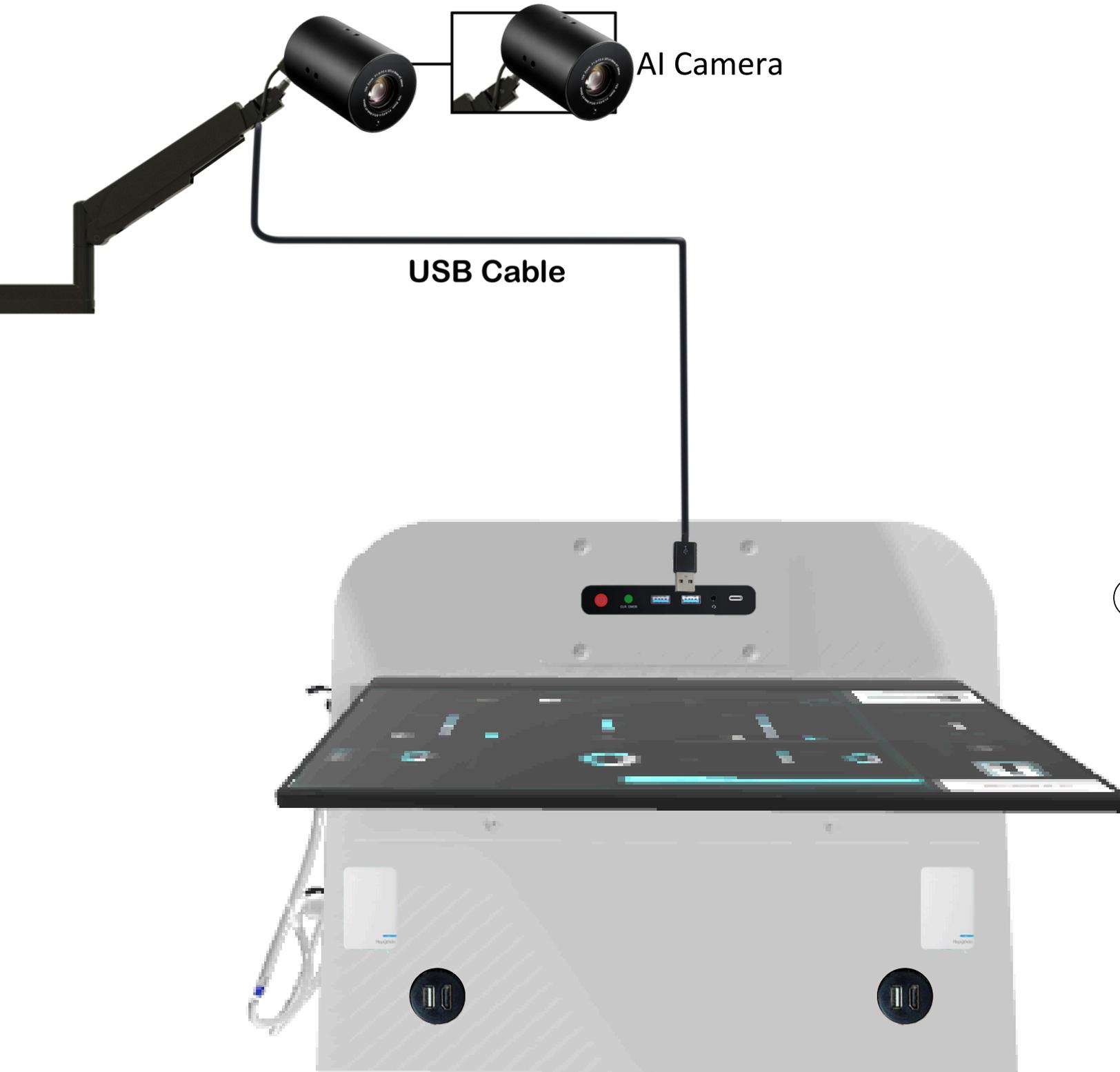
④

Power Socket



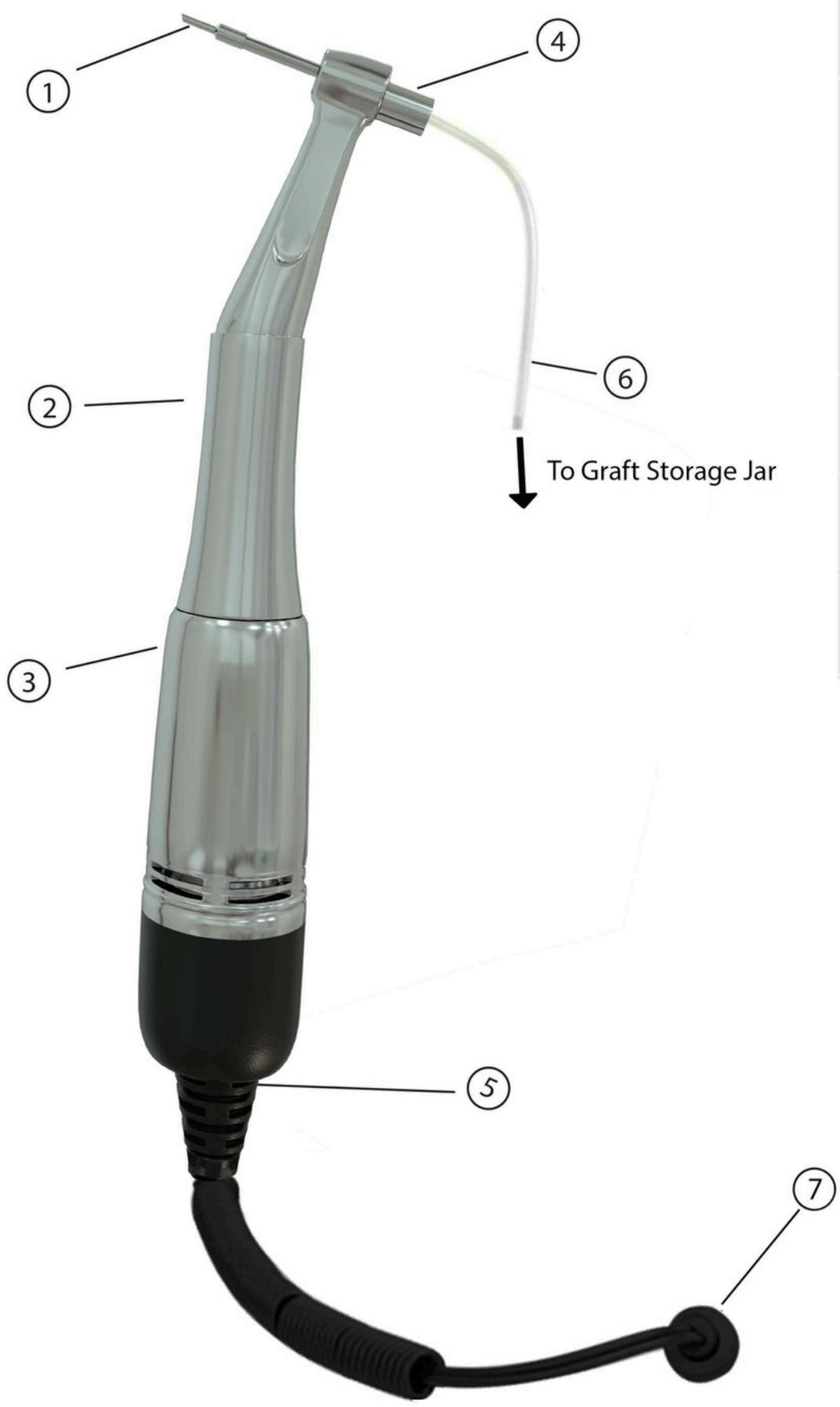
- ① Computing Power Button
- ② USB Port
- ③ HDMI Connection
- ④ HDMI Connection

Front View



AI Camera

USB Cable



①	Safety Punch
②	Hand Piece
③	Motor
④	Handpiece Cap
⑤	Power Cord
⑥	Suction Pipe
⑦	Power Plug

Figure:1.1

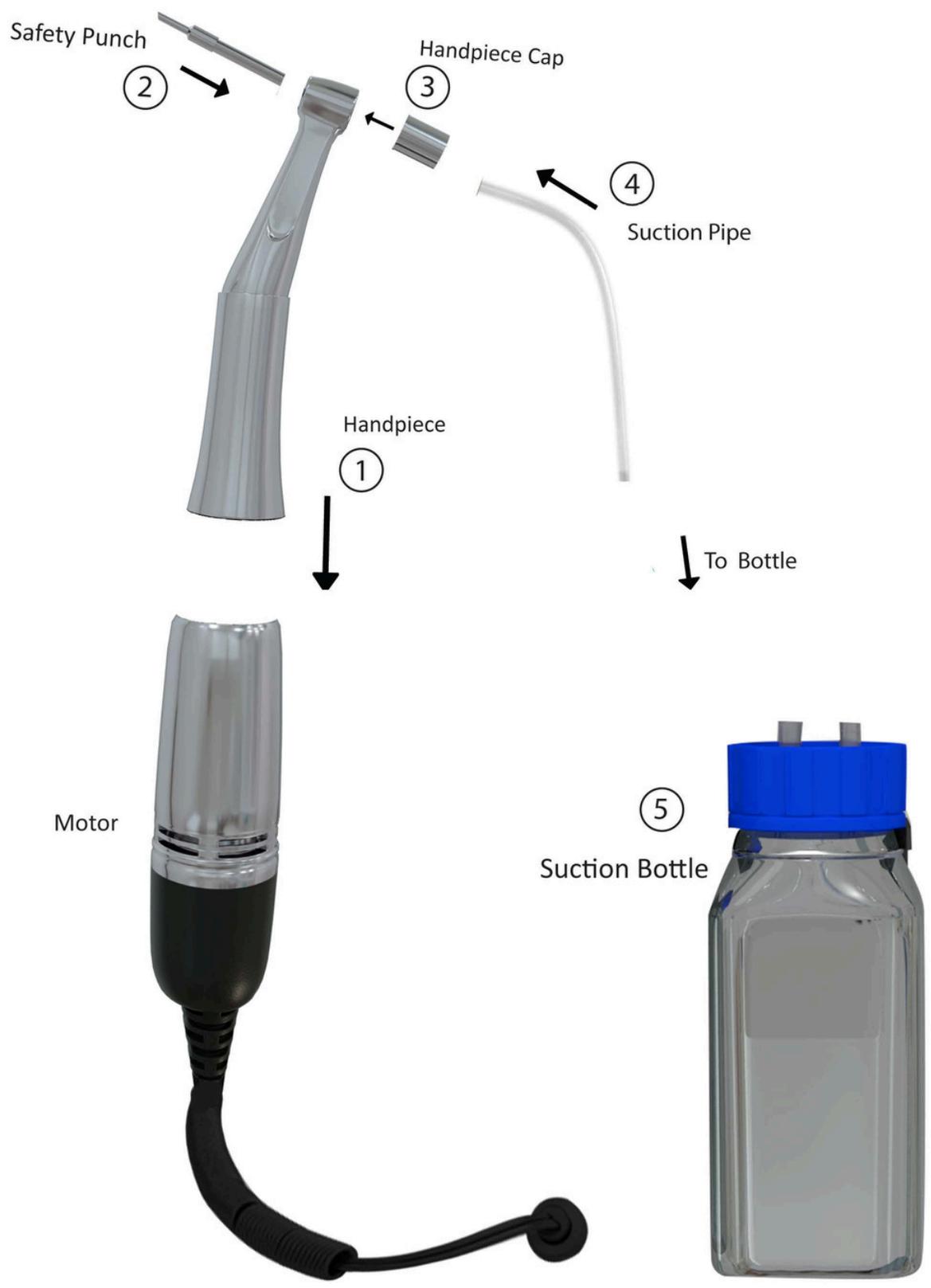


Figure:1.2

Instruction Manual to use the HARRTS FUEsion AI System

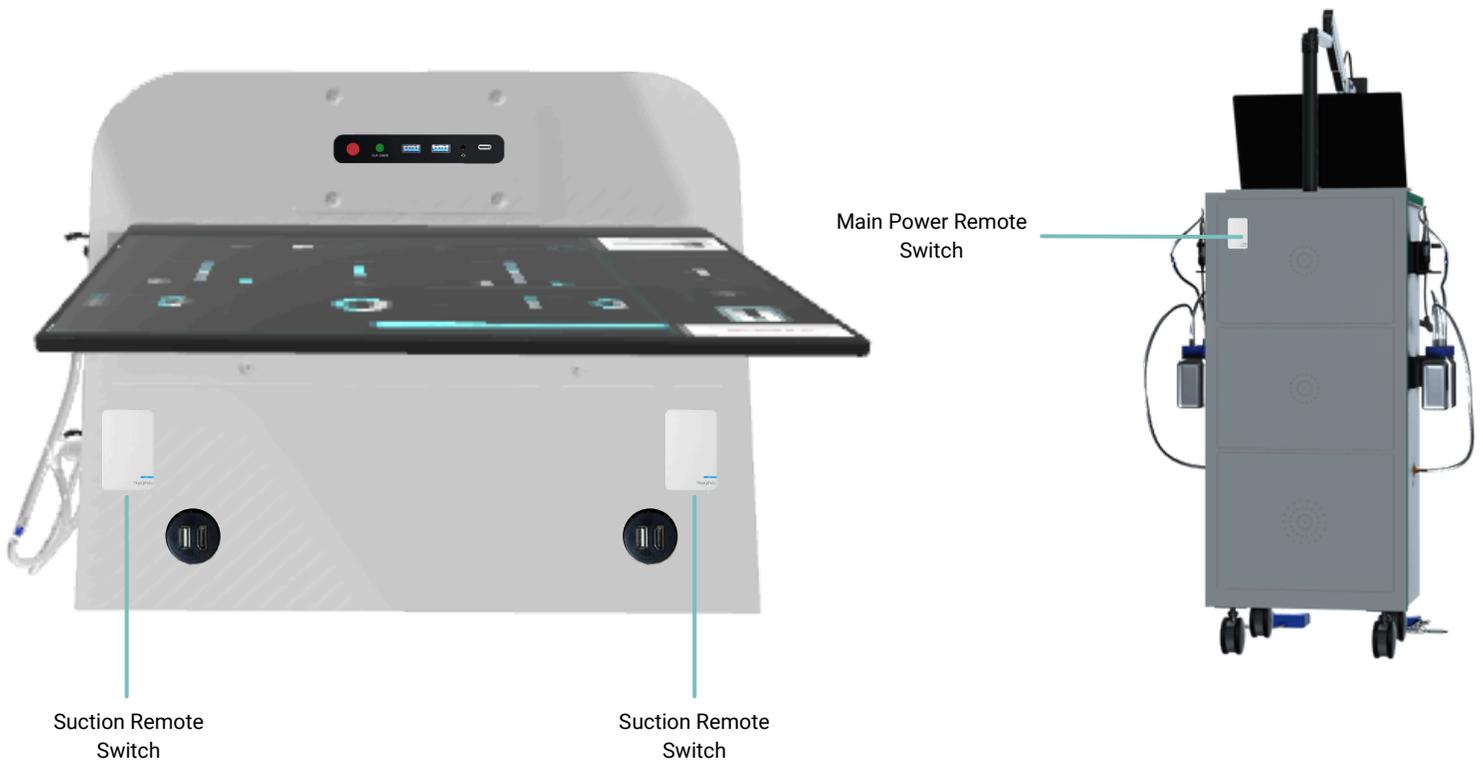
Remote Switches

- The system has three wireless switches: one controls power to the main system, and two control the suction pumps.
- The wireless switch on the back of the machine turns the main system on/off.
- The two wireless switches on the top surface control suction: the left switch controls the left suction, and the right switch controls the right suction.



Remote Switch

Note: Never power off the system without first cleanly closing the HARRTS applications and safely shut down Windows.



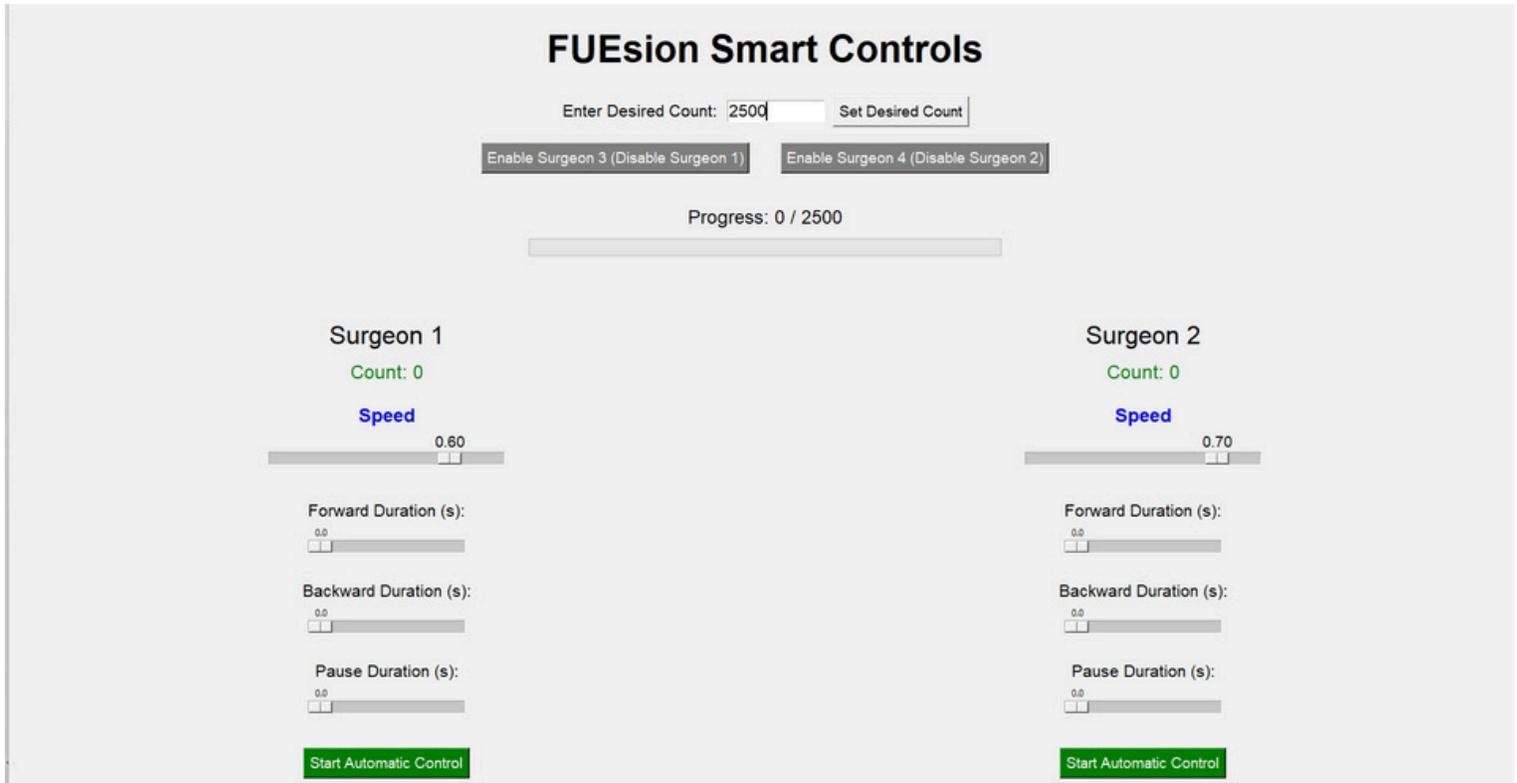


Starting the System

1. **Main power:** Use the main power switch on the back of the machine to power on the system.
2. **Computing platform:** Press the small red power button on the computer to turn it on.
3. **Launch applications**
 - FUEsion Smart Controls: Right-click the FUEsion Smart Controls icon and select Open to start the extraction device.
 - HARRTS FUEsion- AI: Right-click the HARRTS FUEsion-X icon and select Open to start the AI computation and robotic system.
4. **Using the apps:** Once both applications are running, you may use them independently. See the sections below for detailed instructions for each.
5. **Starting suction pumps:** Control the left and right suction pumps independently using the wireless suction switches described above.

Note: Always shut down the applications cleanly before turning off power.

How to use the HARRTS FUEsion Extraction Application:

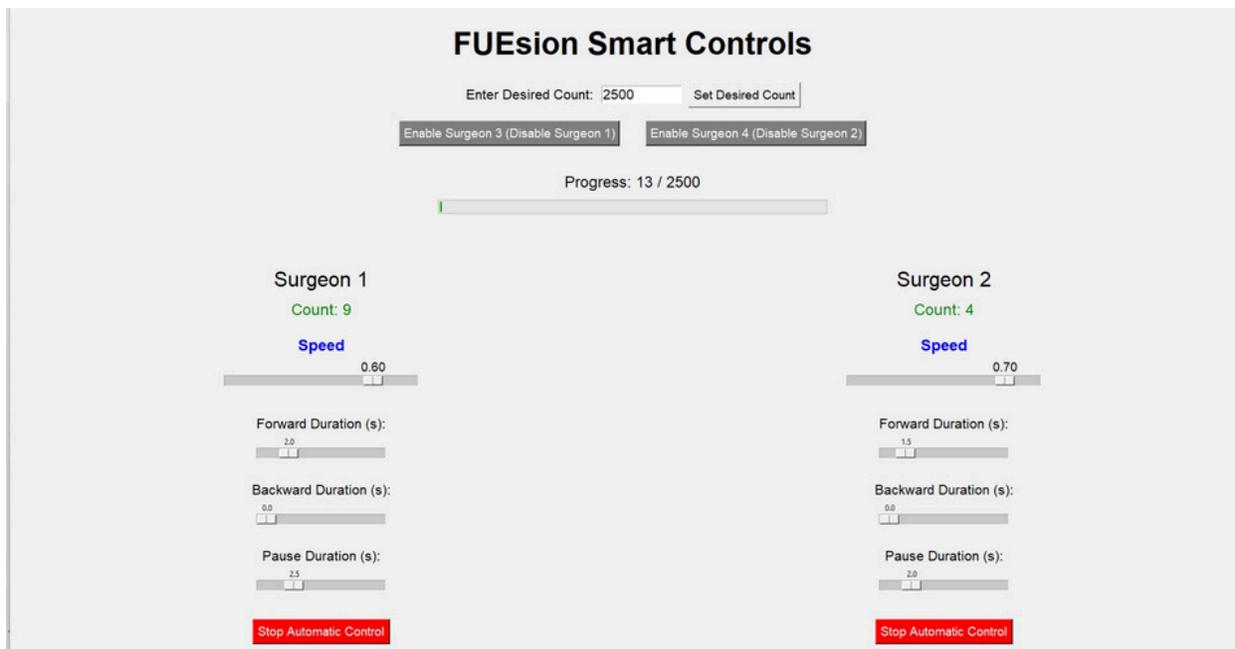


Controls (Top Bar)

- Enter Desired Count: Type the total target (e.g., 2500).
- Set Desired Count: Applies the number and arms the progress bar (0 / target).
- Enable Surgeon 3 (Disable Surgeon 1): Routes left station control to Surgeon 3 and disables Surgeon 1 panel - only for Straight Handpieces. Use Surgeon 1 panel unless you want to use a straight handpiece..
- Enable Surgeon 4 (Disable Surgeon 2): Routes right station control to Surgeon 4 and disables Surgeon 2 panel. Use Surgeon 2 panel unless you want to use a straight handpiece.

Station Controls (for each Surgeon panel)

- Speed: 0.00–1.00 scale (typical). Higher = faster motor movement.
Note: Recommended starting speed: 0.50–0.70; adjust based on tissue response.
- Forward Duration (s): Time the motor moves forward each cycle.
- Backward Duration (s): Time the motor reverses each cycle.
- Pause Duration (s): Rest time between direction changes.
- Start Automatic Control / Stop Automatic Control: Begin or halt the automated cycle for that surgeon only.
- Count: Number of completed actions for that surgeon.
- Total progress = Sum of all active surgeons' counts.



Foot Switch Control

- Connection options:
 - USB cable (plug-and-play)
 - Bluetooth (pair from your device's Bluetooth settings, then select the pedals in the app if prompted)
- Use:
 - Press a pedal to start motor rotation.
 - Press again to stop motor rotation.

Automatic Control

You can run without pedals using the Automatic Control button on each surgeon panel.

1. Set parameters:
 - Speed
 - Forward Duration (s)
 - Pause Duration (s)
 - (Set Backward Duration (s) if your workflow requires a reverse phase.)
2. Start: Click Start Automatic Control.
 - The button turns red and changes to Stop Automatic Control while running.
3. Stop: Click the same button again.
 - It turns green and switches back to Start Automatic Control.

Notes

- Automatic Control is per surgeon panel—you can run left/right independently.
- You can adjust sliders live while running.
- If both pedals and Automatic Control are available, the Stop action from either will halt motion immediately.

Connecting and Disconnecting AR Glasses:

Simply connect the AR Glasses with a C-to-C Cable to the AR Glasses Connector C Port. That's it. Your AR Glasses are now connected with the FUEsion X System.

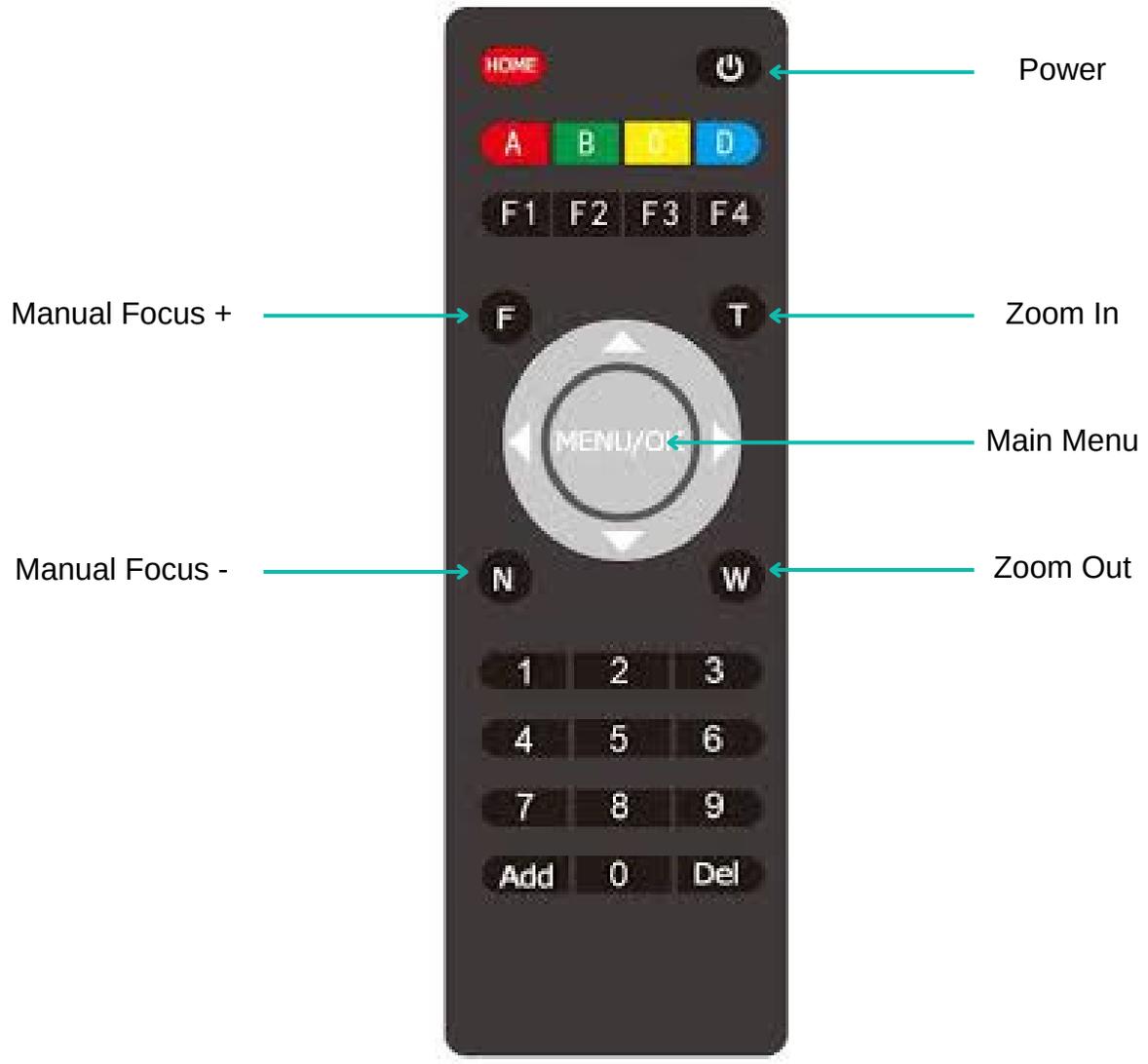
Note: The AR Glasses Connector Hub is situated on the Top Surface of the FUEsion X Body, just in front of the Robot Control Box.





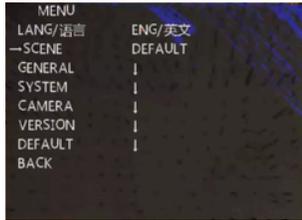
Instructions to use the FUEsion AI Camera

Orient yourself with the AI Camera Remote Control Buttons

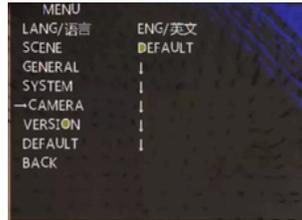




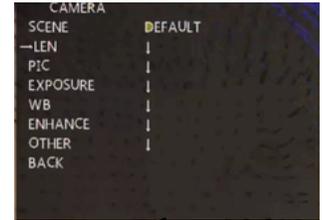
FUEsion AI Camera Menu and Settings



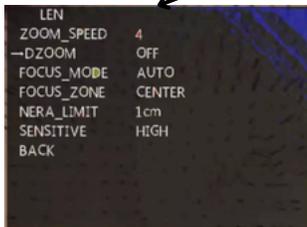
Camera Menu Main Screen



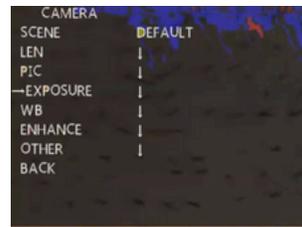
Select Camera From Menu List



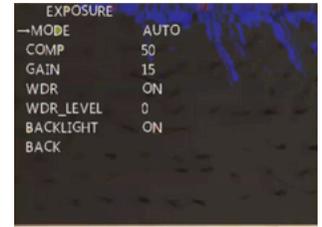
Select Len



Toggle DZOOM to On if not already On



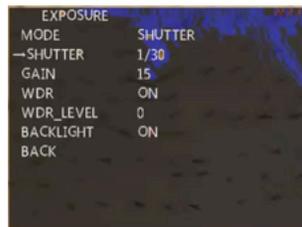
You can toggle Exposure between Auto and Shutter



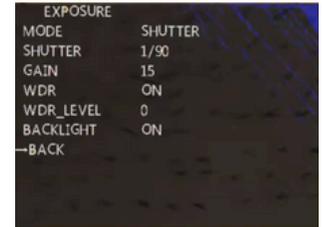
Change from Auto to Shutter if You Want To Alter Exposure Values



Change from Auto to Shutter if You Want To Alter Exposure Values



You can change shutter values to achieve your custom desired results



Finally, go back and exit the menu

Note: These settings might reset to default values once you restart the system, and you may have to do these settings again if you want them. You will have to experiment with these settings to understand which setting suits you the best.

**Powering ON and Off:**

- The HARRTS FUEsion AI should be powered through a 110 V Power supply.
- Always cleanly exit the Application. After exiting the Application, shut down the Computing System and then power it off. Do not close the Application directly without cleanly exiting the application. Do not shut down the computing system without cleanly exiting the Application.
- Only after this step should you completely switch off the power to the main machine.

**Sterilization:**

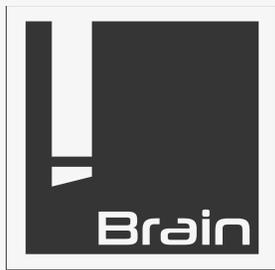
- Always autoclave the handpieces and the punches before using them.
- Never use the same punches without autoclaving them.
- Always autoclave the suction tubes before using them.
- Always discard the suction tubes after a single use.
- Always autoclave the Collection Jars/Storage Jars, Silicone rings of the jars, Extraction Punches, and Implanter Pens before use.
- Autoclave the Collection Jars, and its Caps separately, after removing the Jar caps from the jars.
- Use new and sterile (autoclaved) suction tubes for every procedure.

**Proper Use:**

- Make sure that the silicon ring of the collection jars are securely placed for each procedure to avoid air/vacuum leak.
- Make sure that the handpiece caps are secured tightly to avoid any vacuum leak.
- Autoclave the Hand-pieces before every use.
- Lubricate the Hand-piece after every use with dental handpiece lubricant.



Reach out to us at info@ibrainrobotics.net if you have any questions.



Robotics

Anything is Possible!

CONTACT DETAILS

Get in touch with us! We would like to hear from you.

USA ADDRESS

310 N Wickham Rd, Unit 129,
Melbourne
Florida
32935
USA

WEB

www.ibrainrobotics.net

info@ibrainrobotics.net

