



**Robotics**  
Anything is Possible



## STAR 3D V-2

See Through Augmented Reality Enhanced 3D Endoscopy

### THE BIGGEST BREAKTHROUGH IN ENDOSCOPY!

The STAR 3D Endoscopy System is an Innovative Solution that enables surgeons to pair their existing endoscopes with it and convert the conventional 2D streaming video on a regular monitor, to Full High Definition Crystal Clear 100 inches, Virtual Stereoscopic 3D Streaming video on 'See Through Augmented Reality Glasses'. The system can be useful for surgeons in multiple surgical disciplines like ENT, Orthopedics, Gynecology, Laparoscopy, Neurosurgery, Dental, Genito-urinary Surgery, ETC.

**Surgeons Benefits:**

- Improved depth perception
- Clearer understanding of complex surgical anatomy scenarios
- Enhanced FHD Video
- 100 inches Big Virtual Screen
- Up-to 32 X Digital Zoom gives great magnification
- No need to look at the display monitor
- Simultaneous visualization of surrounding as well the surgery
- Better and Improved Hands-Eye Coordination
- Improved ergonomics resulting in ease of use and reduced fatigue
- Decreased learning curve

**Patient Benefits:**

- Improved clinical outcomes
- Safer operation
- Increased satisfaction
- Reduced discomfort
- Shorter operation time

**Unparalleled 3D Performance !**

- STAR 3D is the First and Only 3D-FHD System with See Through Augmented Reality Glasses
- Unparalleled Crystal Clear FHD High Acuity Vision
- Switch between 2D and 3D as per your convenience
- Switch between Conventional Monitor or Augmented Reality Glasses as per your convenience
- Superior Depth Perception and Enhanced Surgical Accuracy Dynamic Focus
- Higher Accuracy and Surgical Precision
- Better anatomical understanding
- Enhanced hand-eye coordination
- High acuity visualization





**A 3D-FHD Camera System That Delivers:**

- Dynamic Focus
- Quick White Balance
- Single Click recording and snapshots
- Lightweight camera design Universal Scope Coupler
- Adjustable viewing of images
- Proprietary Software for enhanced image quality
- 2D to 3D mode
- Digital image flip 90°, 180°, Horizontal and Vertical Flip, as well as video stretching, for better hands-eye coordination during Endoscopy.

**STAR 3D Console:**

- Specifically designed to maximize surgeon ergonomics and minimize the footprint in the operating room.
- Camera Control Unit (CCU) based on proprietary hardware and software
- Integrated digital recording 3D and 2D friendly with USB download ability
- Integrated with Cloud for Anytime Access
- Compatible with any Endoscope
- Single button on/off system
- Xenon compatible



## User friendly interface

- Intuitive navigation menu for one-click adjustments
- Patient data input for recordings
- Instant playback
- Can project multiple 3D displays
- Platform allows continuous improvements through Software upgrades

## User Friendly Operation:

- The STAR 3D system is a one button operational system.
- With one push of the button the system is turned on and boots up to ready mode.
- The STAR 3D- HD camera and light source is a simple “plug and play” once attached into the CCU.

## STAR 3D COMPONENTS



Computing Platform



100 W Cold LED Light-source



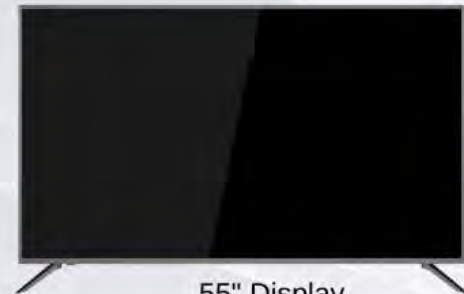
150 X Zoom FHD Camera



Augmented Reality Glasses



High Speed WiFi Router



55" Display

## Augmented Reality Glasses

- Model Type: Si-OLED (Silicon-Organic Light-Emitting Diode)
- Power Supply Voltage Controller: 5 V/900 mA via Micro USB terminal
- Battery Life: Approx. 6 hours
- Weight Headset: 2.5 oz / 69 g (excluding cable)
- Power Supply Voltage AC Adapter: 100 – 240 V AC  $\pm 10\%$ , 50/60 Hz with Micro USB cable
- Battery Type: Li-Polymer
- Dimensions Headset: 7.52" x 7.01" x 0.98" (W x D x H)
- Dimensions Controller: 2.20" x 4.57" x 0.91" (W x D x H)
- Weight Controller: 4.55 oz / 129 g







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## Augmented Reality Glasses

### Optical:

- Driving Method: Mono Crystalline Silicon Active
- Matrix
- Display Size: 0.43"-wide panel (16:9)
- Pixel Number: 921,600 pixels (1280 RGB x 720)
- Refresh Rate: 30 Hz
- Field of View: 23 degrees (diagonal)
- Screen Size - Projected Distance: 40" at 2.5 m –  
320" at 20 m
- Color Reproduction: 24-bit color (16.77 million colors)

### General:

- Operating Systems: Android 5.1
- Temperature: 41 °F to 95 °F (5 °C to 35 °C)
- Humidity: 20% – 80%



## Computing Platform

- Processor 3.6 GHz Intel Core i7
- RAM 16 GB SO-DIMM
- Hard Drive 1 TB HDD + SSD Graphics
- Coprocessor NVIDIA GeForce GTX 1070
- Co Processor RAM 8GB GDDR5
- Chipset Brand Intel
- Wireless Type 802.11ag, 802.11abg, 802.11bgn
- Bluetooth : 4.2



## Full HD Endoscope Camera

- Sensor : 1/1.9" Sony IMX CMOS
- Pixels : 2,100,000 Pixels
- Output Interface: HDMI, USB
- Output Resolution: 1920\*1080/60 FPS
- White Balance: Auto(Lock)
- Image Freeze: Yes
- Zoom: 1-16X Digital
- Brightness Adjustment: Yes
- SNR: >50 dB
- Scanning Mode: Progressive Scanning
- Vertical Resolution: 1200 TVL
- Digital Noise Reduction: Auto
- Back light compensation: Auto
- Lens: F 22 m
- Cable light: 2.4 m
- Output interface: HDMI4.0 (DVI)
- Output resolution: 1920\*1080/ 60 FPS
- Power supply: DC 5V
- Output interface: HDMI







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## Bright LED Cold Light Source

- Type: LED
- Power: 100 W
- Illumination: > 4,000,000 Lx
- Color Temperature: 5500 Kelvins
- Color Rendering: 92
- Lamp Life: 500 hours
- Fiber-Optic Interface: Multiple
- Intensity: Adjustable



## Fastest Speed WiFi Router for Wireless Video Streaming

- WiFi Speed : Tri-Band 5.3 Gbps
- WiFi Coverage : Up to 3,000 sq. ft.
- Covered Wireless Devices : 25+
- Ethernet Ports : 8
- Beamforming Technology : Yes
- MU-MIMO : Yes
- Powerful Dual-Core Processor for Efficient Operation
- Eight Antennas for Optimal Wi-Fi Performance







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## CONTACT DETAILS

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

### USA ADDRESS

77380 W. Sand Lake Road,  
Suite 500,  
Orlando, Florida,  
32819,  
USA

### PHONE

USA | +1 352 804 6054

### INDIA ADDRESS

313, Platinum Square,  
Weikfield IT Park,  
Viman Nagar,  
Pune, Maharashtra,  
India.  
411014

### WEB

[www.ibrainrobotics.net](http://www.ibrainrobotics.net)

[info@ibrainrobotics.net](mailto:info@ibrainrobotics.net)