

4K ICG MINIMAL INVASIVE SURGICAL SUITE

SPECTRA

UL-SS-ICG-4K

Fluorescence you can operate on, not just look at.

Four-chip 4K imaging and near-infrared ICG in one optical path, on a fully Indian-built tower with a three-year comprehensive warranty.

4-CHIP CMOS
4K native

NIR / ICG
real time

MONITOR
32"-55" 4K

DIGITAL ZOOM
1x-2.5x

SURGICAL SOLUTIONS FROM INDIA'S FINEST MINDS



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Spectra puts near-infrared indocyanine green imaging inside a native 4K four-chip platform. Perfusion, biliary anatomy and lymphatic drainage appear in real time, in the same view the surgeon is already working in — no second stack, no pause in the procedure.

IMAGING

Four-chip 4K CMOS camera

Four sensors resolve colour and edge separately, holding tissue definition in deep-field and low-light views where single-chip systems flatten out.

ILLUMINATION

LED cum NIR light source

One source drives both white light and near-infrared excitation, so illumination stays matched when the surgeon changes mode.

FLUID CONTROL

Universal pump UMP-1000

Irrigation and suction on one unit, so visibility is restored quickly during bleeding without adding a trolley to the theatre.

FLUORESCENCE

Real-time ICG overlay

Switch between white light, overlay and monochrome NIR from the camera head. Fluorescence is read against live anatomy, not a separate frozen image.

PNEUMOPERITONEUM

CO₂ insufflator UL 45-S

Holds stable intra-abdominal pressure with integrated smoke evacuation, keeping the field readable through sustained energy use.

DOCUMENTATION

Digital zoom and HD recording

1x to 2.5x magnification with no optical change, and full-procedure capture for teaching, audit and case review.

ICG in practice

Indications commonly performed with near-infrared fluorescence guidance.

Hepatobiliary

Biliary tree delineation before clipping; hepatic segment mapping.

Surgical oncology

Sentinel node identification and lymphatic mapping.

Gynaecology

Ureteric course in endometriosis and radical procedures.

Colorectal

Bowel and anastomotic perfusion assessment prior to resection.

Urology

Ureter identification; renal and partial-nephrectomy perfusion.

Plastic & reconstructive

Flap and graft perfusion before closure.



- A 4K surgical-grade monitor, 32"–55"
- B Camera control and system touchscreen
- C Camera, light source, CO₂ and suction ports
- D Consumables drawer
- E Locking castors, UniSmart base

Supplied configuration

ICG camera with camera head	4-chip CMOS, 4K, NIR/ICG capable
Surgical monitor	4K medical grade, 32", 43" or 55" as configured
Zoom coupler	14–32 mm
Telescope	UHD 10 mm, 0° or 30°
Light source	LED cum NIR
NIR fibre optic cable	4.8 mm × 3 m
CO ₂ insufflator	UL 45-S with smoke evacuation
Universal medical pump	UMP-1000, irrigation and suction
Recorder	HD digital
Rack	UniSmart, OBSR-enabled tower

BEST FIT

For theatres where the decision hinges on what is under the surface: hepatobiliary, colorectal, oncology and complex reconstructive work.

WARRANTY

3 years, comprehensive

Covers all units supplied with the suite. T&C apply.

CERTIFICATION

ISO 13485 & ISO 9001

Quality-managed manufacture, IAF and NABCB accredited. CDSCO registered.

ORIGIN

Designed and made in India

DSIR-recognised R&D. Serviced by the manufacturer, not an import channel.

Expert guidance, one click away from the sterile field.

CSM streams the SPECTRA feed out of the operating room and brings a remote specialist into the case in real time — seeing the same image, talking to the same team, drawing on the same anatomy. It runs on the suite you already have.



Live streaming

Low-latency streaming of the endoscopic feed out of the OR, so a remote specialist sees exactly what the operating surgeon sees.



Video conferencing

Built on Jitsi. Everyone in the session talks over one channel, scrubbed team included, without interrupting the procedure.



Whiteboard & annotation

Draw and highlight directly on the live surgical image. Guidance lands on the anatomy, not in a description of it.

Second opinion, mid-procedure

Expert input at the moment the decision is being made.

Mentoring and training

Live feedback for residents and young surgeons on real cases.

Proctoring at distance

New techniques adopted without flying a proctor in.

Case archive

Recorded sessions become teaching material and audit trail.

16

PATENTS

3 granted, 13 filed

2000+

INSTITUTIONS

medical institutions served

250+

YEARS

cumulative med-tech experience

~50%

COST OF OWNERSHIP

against comparable imports

3 yr

WARRANTY

comprehensive, all units

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