

4K MINIMAL INVASIVE SURGICAL SUITE

LUMINA

UL-SS-PTN-4K

Real 4K as the everyday standard, not the exception.

A complete 4K minimal invasive surgical tower — camera, optics, light, insufflation, fluid control and recording — built and serviced in India. White light, no ICG channel.

IMAGING

Native 4K

MONITOR

32"-55" 4K

LIGHT SOURCE

LED UL9000

INSUFFLATOR

UL 45-XS

SURGICAL SOLUTIONS FROM INDIA'S FINEST MINDS



Real 4K as the everyday standard, not the exception.

Lumina is the white-light 4K minimal invasive surgical suite — the same imaging platform and the same build as Spectra, without the fluorescence channel. Full ultra-high-definition imaging, complete fluid and insufflation control, and a cost of ownership that survives being multiplied across every theatre.

IMAGING

Native 4K camera, white light

True ultra-high-definition capture with low noise across the field — genuine 4K detail rather than an upscaled HD signal, without the fluorescence channel.

ILLUMINATION

LED light source UL9000

Even, cool illumination with long lamp life, removing the consumable cost and heat of xenon.

FLUID CONTROL

Universal pump UMP-1000

Combined irrigation and suction to recover visibility quickly, on the same rack as the rest of the stack.

DISPLAY

Medical-grade 4K monitor, 32" to 55"

Colour-calibrated for surgical use and specified to the theatre — 32", 43" or 55" depending on room size and working distance.

PNEUMOPERITONEUM

CO₂ insufflator UL 45-XS

Stable intra-abdominal pressure with smoke evacuation, so the field stays clear during dissection and energy use.

DOCUMENTATION

HD digital recorder

Full-procedure capture on the tower itself for records, teaching files and departmental audit.

Where Lumina runs

A general-purpose 4K stack for routine lists and complex cases on the same trolley.

General surgery

Cholecystectomy, appendicectomy, hernia repair, diagnostic laparoscopy.

Urology

Laparoscopic nephrectomy, pyeloplasty, pelvic procedures.

Paediatric

Fine-detail work where resolution substitutes for magnification.

Gynaecology

Laparoscopic hysterectomy, cystectomy, adhesiolysis, tubal surgery.

Bariatric

Sleeve and bypass procedures needing wide-field 4K detail.

Teaching lists

Recorded cases for residents and skills programmes.



- 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

Lumina camera with camera head	Native 4K, white light
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 UL9000
Fibre optic cable	4.8 mm × 3 m
CO ₂ insufflator	UL 45-XS with smoke evacuation
Universal medical pump	UMP-1000, irrigation and suction
Recorder	HD digital
Rack	UniSmart tower

BEST FIT

For departments standardising on 4K across multiple theatres, and for hospitals replacing ageing HD stacks without a step change in budget.

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 LUMINA 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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