

WIRELESS 4K OT LIGHT CAMERA

Low-Latency Wireless Surgical Camera — Sony FCB, 4K UHD Streaming with VISCA Control



TX with Camera Module



RX with Touch Control

KEY HIGHLIGHTS

At a glance — performance parameters for the Wireless 4K OT Light Camera system

- **Resolution** — 4K UHD (3840 × 2160) @ 30 fps
- **Optical Zoom** — 20× (Sony FCB Camera Block)
- **Transmission** — Wireless
- **Latency** — As low as 20ms
- **Multi-Receiver Support** — Yes
- **Camera Control** — Wireless
- **Control Interfaces** — 10-inch Touchscreen
- **Power Input** — 12V DC (TX & RX)

APPLICATIONS:

- Surgical video recording and documentation in operating theatres
- Real-time procedural visualization for surgeons
- Wireless OT light camera integration
- Medical imaging and telemedicine
- Training, education, and remote consultation

PRODUCT OVERVIEW:

Oppila's Wireless 4K OT Light Camera is an advanced surgical imaging solution designed to eliminate cabling constraints in modern operating theatres.

Built around Sony FCB camera, the system delivers visually lossless 4K video at 30 fps with ultra-low latency over a wireless link.

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this wireless solution provides:

- Flexible camera placement
- Reduced cable clutter
- Seamless integration with OT lighting systems
- Real-time, high-quality surgical visualization

Designed specifically for Operating Theatre environments, ensuring stable transmission in crowded RF environments, No perceptible delay during surgery and Reliable real-time imaging

CAMERA CONTROL

Control Interfaces,

- **Touchscreen Interface (RX Unit)**
 - Real-time camera control

Supported VISCA Functions

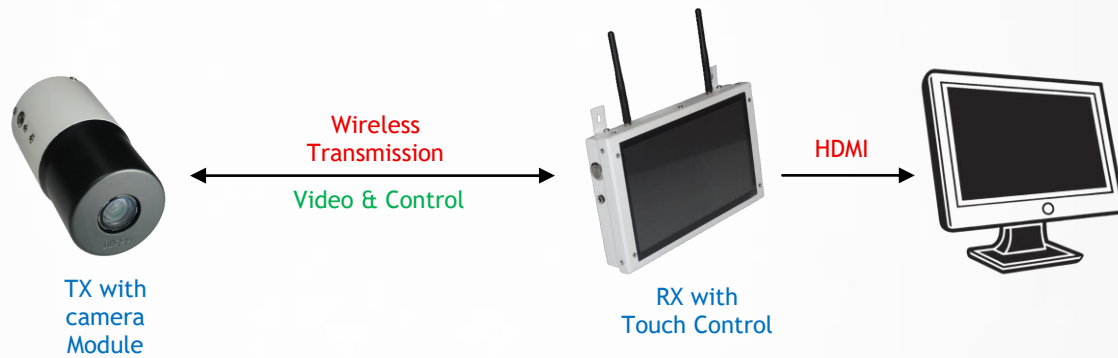
- Optical Zoom In / Out
- Focus Control (Auto / Manual)
- White Balance Presets
- Exposure Control
- Image Enhancements (WDR, Noise Reduction, Defog, Aperture)
- Custom Controls can be added

TECHNICAL SPECIFICATION

Feature	Description
Lens	20× Optical Zoom (4.4 mm - 88 mm, F2.0 - F3.8)
Zoom Speed	3.0 sec (Optical Wide → Tele)
Focus Time	0.1 sec (∞ to Near)
Angle of View	70.2° (Wide) to 4.1° (Tele)
Minimum Illumination	0.4 lx
Recommended Illumination	100 lx - 100,000 lx
Shutter Speed	1/1 to 1/10000 sec
White Balance	Auto / Manual / Indoor / Outdoor / ATW
Video Output	HDMI
Camera control	Touch screen
Wireless distance	20-30 feet (line of sight)
Power	DC 12V/2A
Dimensions (L x W)	156 × 86 mm

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SYSTEM BLOCK DIAGRAM



KIT CONTENTS

Item	Description
Wireless TX Unit with Camera Module	Transmitter with Sony FCB
Wireless RX Unit with Display Control	Receiver with 10-inch touch screen
HDMI Cable	1.5 Metres (Optional)
Power Adapter	2 x 12 V DC (Optional)
User Documentation	Product datasheet and setup instructions (digital copy)

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