

LIGHT CAM

ULTRALIGHT DESIGN • CENTRALIZED CONTROL • ONE-CABLE CONNECTION



Fuzhou Accuray Phototech, Ltd.

Illuminate with Precision, Capture with clarity

Integrated Lighting & Imaging Solutions

Light Cam combines illumination and HD imaging in one compact device, delivering an all-in-one solution for dental care, orthopedics and plastic surgery, medical education, and more.

01

Integrated Smart Lighting System

Equipped with a high-CRI LED cold light source and stepless brightness adjustment from 0% to 100%, it is suitable for a wide range of surgical scenarios, including dental, orthopedic, and plastic surgery. The light is soft and uniform, ensuring a clear and stable surgical field of view.

02

4K Ultra HD surgical video capture

Equipped with a professional-grade 4K imaging module, it enables real-time recording and live streaming of surgeries. With HD output via Type-C, HDMI, and Wi-Fi, it seamlessly integrates with teaching systems and remote consultation platforms, delivering high-fidelity material for medical education and case review.

03

Sleek Integrated Smart Control

Featuring an integrated button controller for brightness adjustment and video recording control, with image zoom and parameter settings available via the companion APP or PC software. It simplifies intraoperative procedures, minimizes extra movements for medical staff, and helps the surgical team stay focused on the procedure.

04

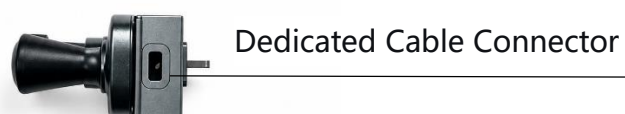
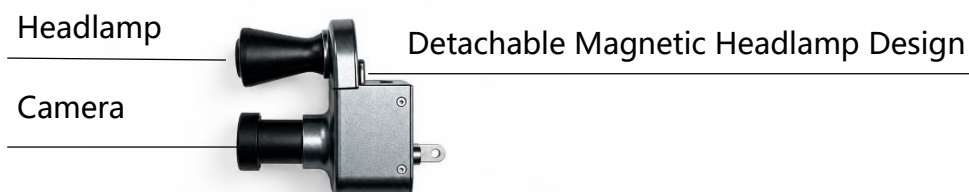
Magnetic Headlamp Design

With a convenient magnetic mount, the headlamp can be quickly installed and removed, allowing flexible adjustment and replacement for different usage scenarios.

05

All-Metal Construction

All-metal construction for a sturdy, durable build that is corrosion-resistant and easy to clean—ideal for professional medical environments. The sleek metal finish delivers a professional look and excellent heat dissipation for stable, long-term performance.



Specifications

Camera Resolution	8MP(4K)/2MP
Frame Rate	30fps/25fps
Weight	≈23g
Image Sensor	Sony IMX415 / IMX307
Light Spot Brightness	5,000–50,000 lux

Optical Parameters

Parameters	WD=450mm	WD=480mm	WD=520mm
Spot Diameter (mm)	105	110	116
Camera FOV (mm)	83.5x47	90x50	96x54

Image Adjustment	Stream Parameters	System Configuration
Brightness, contrast, hue, saturation, sharpness, Gamma, white balance, gain	Supports adjustment of bitrate, frame rate, and GOP size	Supports OSD modification

Connection Type

Choose between wired and wireless connections based on your application needs.

Wired Connection	Wireless Connection
- Powered via PC USB Type-C - Supported Resolutions: 4K@30fps/4K@25fps 1080p@30fps/1080p@25fps 720p@30fps/720p@25fps - System power consumption $\leq 5W$ - Supports Win10 / Win11 / OS X 10.15.7 or later - USB Type-C connection to PC	- Battery-powered, up to 7 hours of continuous operation - Maximum resolution via Wi-Fi output: 4K@30fps; Maximum resolution via HDMI output: 1080p@60fps - Wi-Fi mode: $\leq 7W$ HDMI mode: $\leq 7.5W$ - Supports Win10 / Win11 / OS X 10.15.7 or later / iOS 15 or later / Android 10 or later - Supports Wi-Fi connection to host computer - Supports wireless HDMI connection to TV display
	

Application Scenarios

Built for diverse professional scenarios, meeting both lighting and imaging capture needs.

01

Dental Care

Integrated lighting and HD imaging capture for dental care scenarios.

02

Orthopedics and Plastic Surgery

Soft, uniform lighting and HD image recording to support professional procedures and image documentation.

03

Medical Education

Real-time recording and live streaming for high-fidelity content in teaching, remote consultation, and case review.

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