# OPTO-EDU A43.1931 Digital Colposcope Continous Zoom 1-40x Gynecology

Our Product Introduction

## Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE,
- Model Number: A43.1931
- Minimum Order Quantity: 1 pc
- Price: FOB $1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T,West Union,Paypal
- Supply Ability: 5000 pcs/ Month




## Product Specification

- Magnification: 1-40x
- Sensor: Sony EXMOR CMOS
- Working Distance: 250mm~400mm
- Filed Of View (FOV): At 3X Magnification: >Dia. 80mm; At Max Magnification: >Dia. 6mm
- Depth Of Field (DOF): At 4X Magnification: >40mm; At 40X Magnifcation: >5mm
- Horizontal Resolution: System Imaging Horizontal Resolution >1100 TVL
- Color Reproduction: Max Color Reproduction Error For A Single Color Patch On CIE LAB 20 NBS
- Geometric Distortion: System Imaging Geometric Distortion ≤3%
- Illumination: "LED Ring-Shaped Lighting, At 300mm Working Distance: >1,200 LUX"
- Spot Diameter: Spot Diameter From Light Source >150mm
- Highlight: **digital colposcope continuous zoom**, **gynecology colposcope 1-40x magnification**,

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Our Product Introduction

## Product Description

### OPTO-EDU A43.1931 Digital Colposcope — Continuous Zoom 1–40x for Gynecology

The OPTO-EDU A43.1931 is a high-definition digital video colposcope engineered for efficient gynecological examinations. It combines powerful 1–40x continuous magnification, smooth operational control, flexible high-quality image recording, and a compact, space-efficient design. With digital imaging and a broad set of observation functions, it serves as a reliable clinical assistant for colposcopy diagnostics and documentation.

**SENSOR**

Sony Exmor CMOS, horizontal resolution >1100 TVL

**MAGNIFICATION**

Continuous zoom 1x–40x

Working distance 250–400 mm

**CONTROL**

3.5" LCD remote: focus, white balance, zoom, freeze

**OUTPUT**

HDMI to 24" workstation with professional software and laser printer

**ILLUMINATION**

Ring-shaped LED, >1200 LUX, built-in 3-level green & white filter

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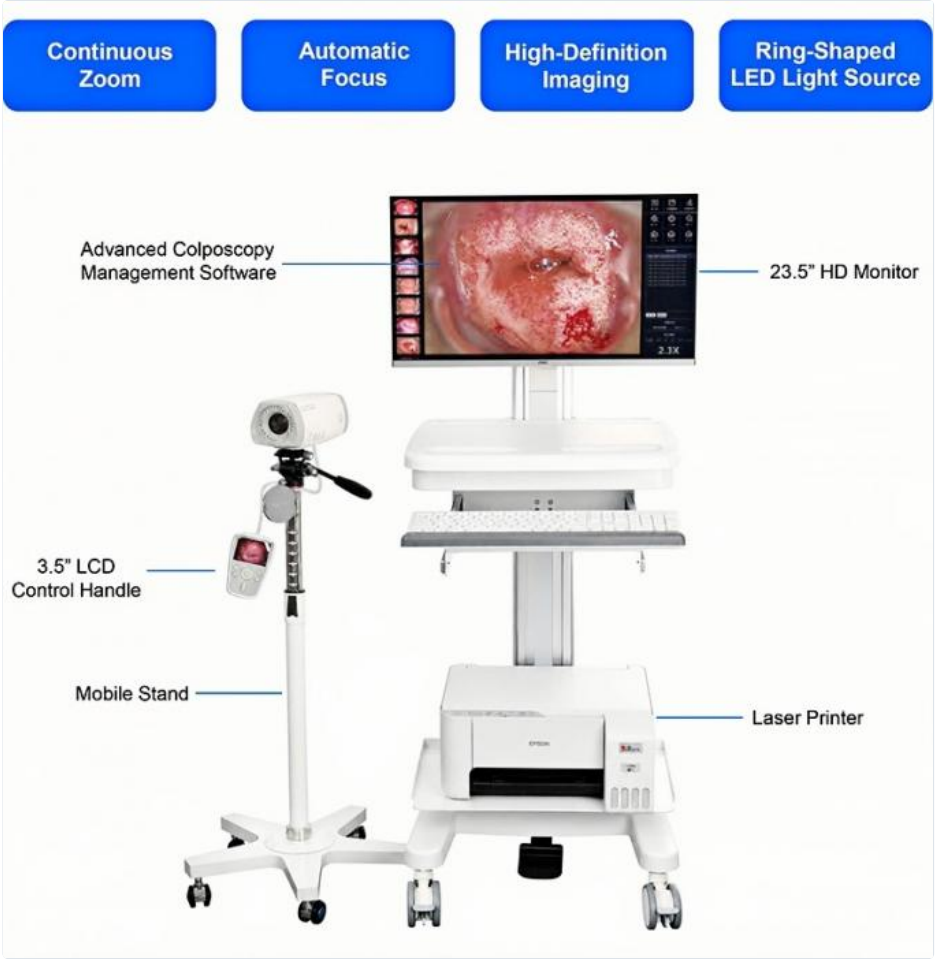






### Ultra HD Video Colposcope Imaging System

Designed specifically to meet the demands of efficient gynecological examinations, the A43.1931 integrates powerful magnification, seamless operational performance, flexible and diverse high-quality image recording, and a compact space-efficient form factor. Its standout capabilities include digital image recording and a variety of observation functions, making it an invaluable assistant in clinical settings.







## Technical Specifications

| Items | A43.1931 Digital Video Colposcope |
|---|---|
| **Magnification** | 1–40x |
| **Sensor** | Sony EXMOR CMOS |
| **Working Distance** | 250 mm – 400 mm |
| **Field of View (FOV)** | At 3X magnification: > Dia. 80 mm; at max magnification: > Dia. 6 mm |
| **Depth of Field (DOF)** | At 4X magnification: >40 mm; at 40X magnification: >5 mm |
| **Horizontal Resolution** | System imaging horizontal resolution >1100 TVL |
| **Color Reproduction** | Max color reproduction error for a single color patch on CIE LAB: 20 NBS |
| **Geometric Distortion** | System imaging geometric distortion ≤3% |
| **Illumination** | LED ring-shaped lighting; at 300 mm working distance: >1,200 LUX |
| **Spot Diameter** | Spot diameter from light source >150 mm |
| **Color Temperature** | 3200K–7000K |
| **Color Rendering Index (CRI)** | Ra ≥85 |
| **Radiant Heat** | Max radiant intensity within FOV ≤350 W/m² |
| **UV Irradiance** | Max effective UV irradiance within 200 nm–400 nm spectral range ≤0.008 W/m² |
| **Light Source Uniformity** | Max illuminance / average illuminance <1.2 within specified illumination range (spot diameter) |

| Items | A43.1931 Digital Video Colposcope |
| --- | --- |
| | Gimbal control<br>Manual zoom-in & zoom-out<br>Focal length adjustment<br>White balance<br>Light source selection<br>Brightness adjustment<br>3-level white light and 3-level green light electronic filter imaging |
| **Software** | **Patient Information Management:** patient record entry, modification, deletion, browsing and querying<br>**Observation & Examination:** image/video capture, freeze, playback, scheduled auto capture<br>**Image Editing:** text/mark/symbol annotation; length and area measurement on images; supports biopsy site marking and result review annotations and comparisons<br>**Medical Record Management:** query, browse, delete records; export exam and surgical records; supports modification of surgical records and examination logs<br>**Statistical Analysis:** statistical analysis of colposcopy results based on examination parameters, patient demographics, and pathological findings<br>**Report & Data Output:** edit, print, and export examination/surgical reports |
| **Stand System** | Height adjustable stand, max height 360 mm |
| **Image Processor** | All-in-one workstation: 12th Gen Intel Core i5, RAM 16 GB, storage 512 GB, 23.5" HD LCD monitor, with relevant software and drivers |
| **Report Output** | Color laser printer |
| **Packing List** | Digital colposcope with 3.5" LCD remote control<br>All-in-one workstation: PC, 23" monitor, keyboard, and mouse<br>Color laser printer<br>Professional colposcope software<br>Integrated upright mobile stand<br>Power adaptors<br>4-wheel trolley for workstation and laser printer |
| **Optional** | USB driver |

A43.1931 Details OPTO-EDU

## Key Design Features

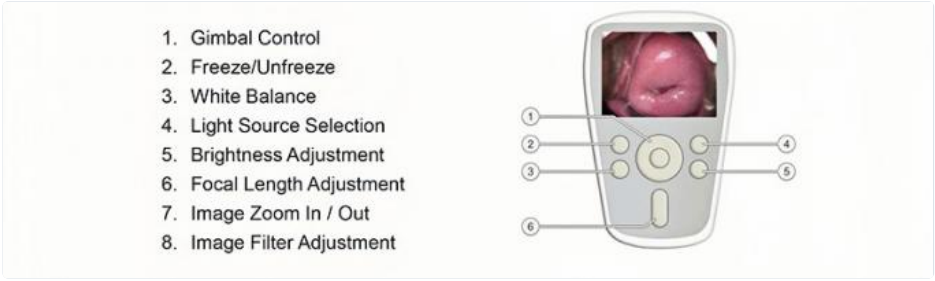
### Ring-Shaped LED Light Source

The medical-grade LED light source features a long lifespan and a ring-shaped multi-point design, delivering a 50% increase in brightness and whiteness compared with conventional light sources. Compared with light sources of the same color temperature, the LED source renders tissue colors more accurately, making it better suited to clinical diagnostic requirements.



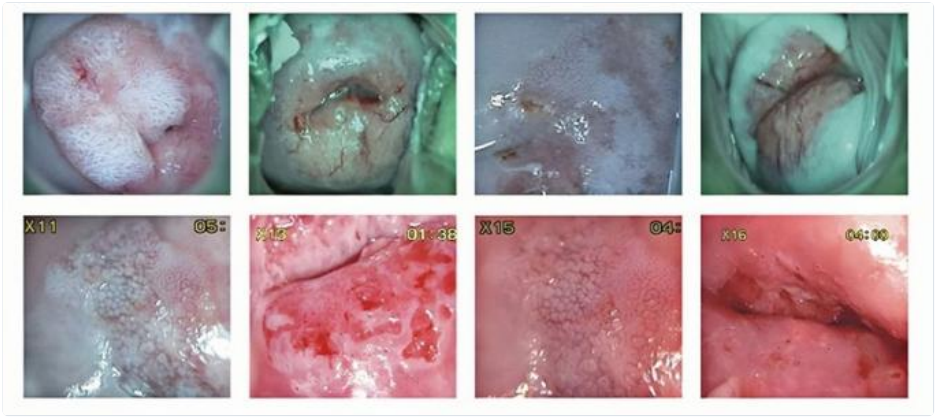
### 3.5" LCD Screen Remote Control Handle

Equipped with a 3.5-inch LCD screen, the remote control handle design allows easy manipulation of functions, enabling more intuitive operation for medical professionals.




### Electronic Three-Level Green Filter Function

The professionally designed electronic filter function employs three-level green light control technology, better meeting the demands of professional vascular enhancement imaging in clinical applications. At the same time, it ensures images remain unaffected by light loss, facilitating seamless color printing and output.



## A43.1931 Details

OPTO-EDU

### ▶ Professional Diagnostic Analysis and Printing of Graphic Reports

- Offer RCI for cervical precancerous lesion images and SWEDE quantitative assessment and analysis tool, allowing for comparative analysis of patients' medical history data from different examination periods.
- Offering functionality for annotating pathological areas on examination images and marking biopsy site locations.
- Multi-printing report template, allowing users to selectively print content and choose graphic and textual printing formats, supporting LEEP surgical record editing and report printing.



### ▶ Real Photos From User








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