HIGH DEFINITION CAMERA MODULE

STERIS

STERIS's **HD Camera Module is a High-Definition block camera**. This HD camera can be mounted as an optional component in STERIS's XLED®* and Harmony LED lighting systems. This integrated video camera maintains the optical and mechanical performance of the lighting system while providing an unobstructed view of the surgical site. Its high-quality video images enable you to document surgical procedures for a variety of applications, including teaching and archival purposes.

Focus on imaging

Operating room integration links medical imaging to audio and video routing, two of the fastest-developing technologies in the world. Harmony iQ® integration systems incorporate the latest advances in high-definition image management, bandwidth, and signal routing.

The XLED® HD in-light camera allows the medical team to watch the surgical procedure on surgical-grade monitors, specifically designed for the surgical environment. The videos can also be broadcast by video conferencing for teaching purposes, for example.

The camera is controllable from the light head, the wall touch panel or Harmony iQ® integration systems. Many built-in features are accessible, including zoom, focus, brightness…

The VuCapture™ digital recording system is a simple and integrated solution for video and still image capture and printing.

*The HD Camera is compatible with XLED2 and XLED3 surgical lighting

Technical characteristics

Sensor	1/3 type HD CMOS
Resolution	Approx 2.000.000 pixels
Digital zoom	12x (120x with optical zoom)
Focus	Auto
White balance	Auto / manual
Brightness	Auto / manual
Video signal	HD: 1080i/59.94, 1080i/50, 720p/59.94, 720p/50
SN Ratio	50 dB or more
Electronic shutter speed	1/2 to 1/10000 sec.
Video output	HD: analog component (Y/Pb/Pr)

CLEANING

The **HD Camera Module contains delicate electronics which** may suffer damage if immersed in liquid or exposed to temperatures above 50°C. Therefore, the camera module is not suitable for liquid or steam sterilization. The outer surface, however, can be cleaned with chemicals recommended by STERIS (see OPERATOR MANUAL).

STANDARDS

All components of the lighting system meet the applicable requirements of the following standards and/or regulations and carry the appropriate symbols:
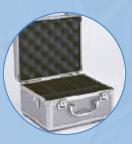
- **International Standard: IEC 60601-1: Medical Electrical Equipment. Part 1: General requirements** for safety. Second edition 1988.t
- **CSA 22.2 No. 601.1-M90, standard for Electro-Medical Equipment.**
- **Uniform Building Code, Vol. 1, 1997 and International Building Code, 2000.**
- **UL Standard 60601-1, First Edition. As certified by ITS to ETL standards.**
- **EN 60601-1:1993, Amendment 2, 1995, Electrical Safety.**
- **EMC EN 60601-1-2:1993.**
- **AAMI 11607: 1997, Packaging for Terminally Sterilized Medical Devices. (Sterility.)**

The camera module is designed for **quick, tool-free attachment or removal from the lighthead, allowing a single** camera to be shared among multiple lighting systems.

MUST HAVE ACCESSORIES

A sterile disposable camera cover is available (with an integral clear lens) to maintain the video signal quality while allowing members of the surgical team to grasp the camera module to aim the camera or adjust the pattern size or intensity of the light. Ref. LB54

The compact camera is protected in an aluminum housing. A glass lens provides a clear video image while impeding ingress of dust and fluids.

The STERIS surgical-grade monitors provide impressive image quality, with excellent vivid colour rendering. Ref. RLM26HDT

M204EN, 2013-12, Rev. A, Photo credits: ANAELB