

Living up to Life

Leica
MICROSYSTEMS



Leica HD C100

Outstanding high definition surgical video and still imaging for an efficient and reliable OR workflow starts with an excellent camera for medical use.

For decades the Leica brand stands for high quality images. Driven by this spirit, the new Leica HD C100 medical camera offers superior Leica technology in every aspect. Featuring an innovative one-touch control button, the camera enables the surgeon and OR staff to easily set up brilliant, sharp digital images at any time.

Leica's premium optics are specifically designed to provide outstanding still images and videos. With the Leica HD C100, Leica Microsystems sets a new standard in medical imaging. Enjoy the feeling of working with a Leica medical camera in HD!

LEICA HD C100 MEDICAL IMAGING SOLUTION – THE NEW STANDARD IN DIGITAL CAMERA TECHNOLOGY

- › **Simple like never before** – The Leica HD C100 menu control features an innovative control button for easy intra-operative image optimization.
- › **One camera fits all** – HD, SD, 1080p, 720p, HDMI, HD-SDI, video splitter; whatever image resolution is required for your OR/clinic set-up, the Leica HD C100 offers the right imaging solution.
- › **Motion meets still** – The Leica HD C100 offers high quality still image capturing and easy image sharing through external USB storage connection.



- 1 Camera menu – Control driven by simplicity
- 2 Leica optics – Brilliant vision
- 3 Motion meets still – Direct USB high resolution recording of JPEG pictures
- 4 Fast access – Leica remote control

TECHNICAL SPECIFICATIONS

Leica HD C100 medical camera

VIDEO AND STILL PICTURE CAMERA

Sensor and pick-up technology	Hardware: 1/2.8" progressive CMOS sensor Software: Leica-specific CMOS optimization software
Lens mount	C-Mount
Synchronization	Internal or external
Picture format	JPEG
Video format / resolution	Parallel output: 1080p/60p, 1080p/50p, 1080i/60i, 1080i/50i, 720p/60p, 720p/50p, SD(NTSC), and SD(PAL)
Video / signal output	HDMI, HD-SDI (3G), S-Video, Video out, Gen lock
Hot plug and play	Camera head can be connected or disconnected to the camera control unit while it is powered on.
Menu control	All functions controlled by one-touch button
File storage / transfer	USB stick and/or USB HDD (1 GB = 340 pictures), DCIM format
External control	RS232-C, LAN Ethernet (Service)

PERFORMANCE

Resolution	950 TV Lines
Signal-to-noise ratio	54 dB
Sensitivity	2000 lx, F5.6, 3200 K

CAMERA SETTINGS

Auto-light control (ALC)	Priority shutter or priority gain ALC mask: NO mask, S circle, M circle, L circle, Manual
Shutter speed	Automatic (ALC) or manual (1/6 to 1/10,000)
White balance	Automatic (one push / real time) or manual
Scene files	5 user-programmable settings Easy switch between scene files via RS232-C connection
Image settings	Gain, Enhancement, Gamma, Knee, Black stretch, Wide dynamic range, White clip, Dynamic noise reduction, Chrominance gain, Black level

DISPLAY FUNCTIONS

Screen / display mode	Picture-in-picture, Picture freeze, Live mode, Color bar / grayscale / cross-line
Image reversing	Flip and/or mirror
Re-play stills	JPEG capture on external file storage device and playback function

GENERAL

Dimensions / weight	Camera head: 37 × 45 × 50 mm / 100 g Camera control unit: 170 × 44 × 160 mm / 600 g
Power requirements	DC 12 V ±20%
Power consumption	< 10 W
Ambient temperature	Operating: 0°C ~ +40°C Storage: -20°C ~ +60°C
Housing / finish	AgProtect™ nano silver antimicrobial coating
Supplied accessories	Remote control: IR-based remote control Cable: 5 m (standard), 10 m (optional)
Compatibility	For more information please contact your local Leica Microsystems representative

REGULATIONS AND STANDARDS

- > Council Directive 93/42/EEC on Medical Devices (MDD) and its amendments. Classification: Class I, in compliance with Annex IX, rule 1 and rule 12 of the directive.
 - > IEC 60601-1 / EN 60601-1 Medical Electrical Equipment, Part 1: General requirements – including national differences of EU, CA, US.
 - > IEC 60601-1-2 / EN 60601-1-2 Electromagnetic Compatibility.
- The Medical Division, within Leica Microsystems (Schweiz) AG, holds the management system certificates for the international standards ISO 9001, ISO 13485, and ISO 14001 relating to quality management, quality assurance and environmental management.

