

Laryngograph Stroboscopy Specifications

A medical grade isolation transformer provides protection via separate outputs for the light source and all ancillary equipment.

Safety classification Class I, Type BF
CE Mark Medical Devices Directive 93/42/EEC Class IIa

Light source

Lamp High efficiency xenon lamp with integral mirror. Maximum input 300W.
Variable input energy 0.5J - 2J/flash at 50 Hz. UV rejection coating.
Flash duration 10µs
Colour temp. 12,000 K, for stroboscopic illumination mode
Lamp life > 100 million flashes at 1 J/flash (> 550 hours at 50 Hz)

PC

- P4 processor
- 512 Mb RAM
- 36GB SCSI HDD, 120 GB IDE HDD
- DVD+RW
- Broadcast standard RGB framegrabber card
- Windows 2000/XP Professional
- 3 way footswitch – Record start/stop, Mark/Grab, Playback

Laryngograph Processor

Microphone Pressure sensitive electret, +/- 0.1dB 1Hz to 20kHz
Laryngograph Gold plated electrodes in small, medium and large sizes
Output voltage range 5V peak-to peak
Output impedance 600Ω
Bandwidth +/- 0.5dB, 10Hz to 5kHz

USB Interface

Analog inputs 4 channel, +/- 5V, 13.6kΩ input impedance, 16-bit A to D, 90dB dynamic range
Sampling rate 44.1, 22.05, 11.025 kHz
Analog outputs 2 channel, 16 bit D to A, speaker or headphone compatible
PC Interface USB 2.0

LxStrobe3 Software

LxStrobe3 has three modes

Live camera mode

- generates flash triggers to light source
- captures video to hard disk simultaneously with speech and Laryngograph waveforms with choice of compressed (MJPEG) or uncompressed quality
- mark good sections during recording with footswitch
- snapshot mode to grab 1, 2 or 4 images direct to printer (no capture)

Movie player

The logo for Laryngograph, featuring the word "Laryngograph" in a stylized, green, serif font. The letter 'L' is significantly larger and more prominent than the other letters.

ISO9001:2000
ISO13485:2003
FM73968

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- replay recordings at full, ½ or ¼ speed simultaneously with speech and Laryngograph waveforms
- instant access to marked sections
- edit recordings
- write clinical notes

Edit mode

- multiple image view with marker on Laryngograph waveform indicating the phase at which the flash occurred
- montage view of a complete slow motion cycle
- animation of a complete slow motion cycle
- side-by-side phase synchronized comparison of stroboscopic recordings
- generate print outs

Lx
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