



ALHK-01-ZENIT

AUTOMATED CO_2 LASER SURGICAL SYSTEM

ALHK-01-ZENIT AUTOMATED CO, LASER SURGICAL SYSTEM

The system is designed to treat various gynecologic pathologies

KEY POINTS:

A full scale computerized support during surgical interventions to improve accuracy and efficiency of laser interventions in biological tissues and reduce the likelihood of mistakes due to human factor.

ALHK-01-Zenit is favorably distinguished from its foreign counterparts by a 2.0 to 2.5-times larger imaging field of surgical beam in the operative field and by arbitrary scanning patterns within such field to allow for areal uniform vaporization of tissues inside an arbitrary contour.

CO, LASER SET SPECIFICATION:

Parameter	Value
The power output of CO ₂ laser surgical	
system is controlled, W:	
- in continuous mode;	from 0.1 to 30
in repetitively-pulsed mode;	from 1 to 25
- in superpulsed mode	from 0.5 to 15
Beam spot size, µm	
- in the focus of surgical headpiece;	max. 200
- in the focus of laparoscope headpiece;	250 to 300
- in the focus of colposcope headpiece	300 to 500
Imaging field size in operative field, mm ²	15x15
Scanning patterns	arbitrarily configured
Beam delivery unit of operative field	mirror-lens
Seven-knee manipulator with transmission of at least 0.85	n coefficient
Main beam guidance system based on dic with wavelength λ =0.635 to 0.650 μ m and output power of 0 to 5 mW	
Maximum capacity of smoke removal and filtration system, dm³/s	30
Number of filtration levels of biological tissue vaporization products	3
Axes, deg	1 to 180 (with 1° steps)
Cornea diameter, mm	2.0 to 14.0 (with 0.1 mm steps)

BINOCULAR COLPOSCOPE SPECIFICATION:

Parameter	Value
Working distance, mm	300
Magnification, X	7.5; 15; 30
Field of view diameter, mm	49; 24; 12
Interpupillary distance adjustment, mm	58~75
Diopter adjustment, D	-7 to +7
Illumination system:	
Illumination source	LED
Maximum luminance (adjustable), lux, at least	10000
Illuminated field diameter, mm, at least	70
ntegrated Digital Photo/Video Module:	
CMOS Array Type and Size	1 /2.5
Max. Resolution	2592 x 1944
Connection	USB 2.0
Power Supply, mA, max.	500

KNb-04-01-Zenit, a simplified configuration of binocular floor colposcope, is commercially available as well





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