



MEDICAL EQUIPMENT

MEDICAL EQUIPMENT

ZENIT MEDICAL EQUIPMENT IS MANUFACTURED AT PJSC "KRASNOGORSKY ZAVOD", THAT HAS A LONG EXPERIENCE IN DEVELOPING AND PRODUCING OPTICAL AND OPTOELECTRONIC UNITS: FROM AEROSPACE PHOTOGRAPHIC EQUIPMENT TO OBSERVATION DEVICES. AT THE BEGINNING OF THE XXI CENTURY THE ACCUMULATED EXPERTISE ALLOWED THE TEAM OF HIGHLY QUALIFIED SPECIALISTS TO REALIZE THEIR INNOVATIVE IDEAS: TO DEVELOP AND MASTER THE PRODUCTION OF MEDICAL DEVICES WITH BINOCULAR OPTICS FOR OPHTHALMOLOGY AND GYNECOLOGY THAT CREATES A STEREOSCOPIC IMAGE. PRODUCTS ARE DESIGNED TO EQUIP MEDICAL INSTITUTIONS AND ARE REPRESENTED BY SLIT LAMPS FOR THE DIAGNOSIS OF OPHTHALMIC DISEASES AND BINOCULAR COLPOSCOPES USED IN EXAMINATIONS IN GYNECOLOGY AND OBSTETRICS.

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GYNECOLOGY

KNB-02-ZENIT

BINOCULAR FLOOR COLPOSCOPE



THE COLPOSCOPE IS DESIGNED FOR MEDICAL MONITORING DURING EXAMINATIONS AND DIAGNOSTICS OF GYNECOLOGICAL DISEASES AND IN OBSTETRICS VIA ZOOMING A STEREOSCOPIC IMAGE OF THE WORKING FIELD



KEY ADVANTAGES:

1. Working distance: 300 mm (optimal);
2. Converged optical system reduces eye fatigue during routine examinations;
3. 3D image allows to view the structure and condition of blood vessels in detail and the blue/green filter helps to select them in contrast;
4. The integrated tripod provides rotation of the stereo microscope around the axis at any angle, adjustment of height and focus.

SPECIFICATIONS:

SKU#	13303
Distance, mm	300
Zooming, x	7.5 ± 0.37 / 15 ± 0.75 / 30 ± 1.5
Working field diameter, mm	49 ± 2.5 / 24 ± 1.2 / 12 ± 0.6
Interpupillary distance adjustment, mm	58 ~ 75
Dioptric adjustment, dptr	-7 to +7

LIGHT SYSTEM:

Light source	HALOGEN LAMP
Maximum luminance (adjustable), lux	> 10 000
Covered field diameter, mm	> 52

REGISTRATION CERTIFICATE



ZENIT-MEDICINE.COM



KNB-04-01 LED-ZENIT

BINOCULAR FLOOR COLPOSCOPE



THE COLPOSCOPE IS DESIGNED FOR MEDICAL MONITORING DURING EXAMINATIONS AND DIAGNOSTICS OF GYNECOLOGICAL DISEASES AND IN OBSTETRICS VIA ZOOMING A STEREOSCOPIC IMAGE OF THE WORKING FIELD



KEY ADVANTAGES:

1. Built-in video system provides a real time monitoring, video recording and making photos;
2. Working distance: 300 mm (optimal);
3. Converged optical system reduces eye fatigue during routine examinations;
4. 3D image allows to view the structure and condition of blood vessels in detail and the blue/green filter helps to select them in contrast;
5. The integrated tripod provides rotation of the stereo microscope around the axis at any angle, adjustment of height and focus.

SPECIFICATIONS:

SKU#	13308
Distance, mm	300
Zooming, x	7.5 ± 0.37 / 15 ± 0.75 / 30 ± 1.5
Working field diameter, mm	49 ± 2.5 / 24 ± 1.2 / 12 ± 0.6
Interpupillary distance adjustment, mm	58 ~ 75
Dioptric adjustment, dptr	-7 to +7
LIGHT SYSTEM:	
Light source	LED
Maximum luminance (adjustable), lux	> 10 000
Covered field diameter, mm	> 70



KNB-04-LED-ZENIT

BINOCULAR FLOOR COLPOSCOPE



THE COLPOSCOPE IS DESIGNED FOR MEDICAL MONITORING DURING EXAMINATIONS AND DIAGNOSTICS OF GYNECOLOGICAL DISEASES AND IN OBSTETRICS VIA ZOOMING A STEREOSCOPIC IMAGE OF THE WORKING FIELD



KEY ADVANTAGES:

1. Built-in video system provides a real time monitoring, video recording and making photos;
2. Working distance: 300 mm (optimal);
3. Converged optical system reduces eye fatigue during routine examinations;
4. 3D image allows to view the structure and condition of blood vessels in detail and the blue/green filter helps to select them in contrast;
5. The integrated tripod provides rotation of the stereo microscope around the axis at any angle, adjustment of height and focus;
6. Digital camera advanced functionality through software.

SPECIFICATIONS:

SKU#	13306
Working distance, mm	300
Zooming, x	7.5 ± 0.37 / 15 ± 0.75 / 30 ± 1.5
Working field diameter, mm	49 ± 2.5 / 24 ± 1.2 / 12 ± 0.6
Interpupillary distance adjustment, mm	58 ~ 75
Dioptric adjustment, dptr	-7 to +7

LIGHT SYSTEM:

Light source	LED
Maximum luminance (adjustable), lux	> 10000
Covered field diameter, mm	> 70

BUILT-IN DIGITAL PHOTO/VIDEO CAMERA:

CMOS matrix type/size, inch	1 / 2.5
Maximum resolution	2592 x 1944
Connection	USB 2.0
Power supply, mA	max 500



KM-01-ZENIT

GYNECOLOGICAL CHAIR



THE GYNECOLOGICAL CHAIR WITH THREE ELECTRIC MOTORS IS THE MOST RELIABLE MODEL AMONG COMPETITIVE PRODUCTS. EQUIPPED WITH INDEPENDENT ELECTROMECHANICAL MOTORS THE CHAIR PROVIDES THE CONVENIENT POSITIONING OF A PATIENT DURING MEDICAL EXAMINATIONS



DURABLE PERFORMANCE DUE TO:

1. LINAK electric motors;
2. Arpatek eco-leather upholstery that withstands 500,000 cycles according to the Martindale test, that is 16 times more than required for heavy domestic conditions or frequent commercial use.

DESIGN AND ERGONOMICS:

1. Two built-in sockets for connecting medical lamps and other equipment;
2. Trendelenburg/Anti-Trendelenburg position adjustment of the seat bed;
3. 3 motors for height, backrest and Trendelenburg position adjustment;
4. 3 footpedal panel for controlling the patient's position;
5. The installed universal guide rails provide a convenient attachment of accessories on the chair;
6. Goepel-type leg supports with attachment clamps;
7. A removable stainless steel bowl.

SPECIFICATIONS:

SKU#	371
Bed width, mm	600 ± 50
Bed length, mm	1300 ± 50
Minimum seat height, mm	880 ± 50
Load capacity, kg	140
Total weight (with accessories), kg	< 180

MOTION PARAMETERS (THREE ELECTRIC MOTORS):

Overall height adjustment, mm	880 ± 50 / 1085 ± 50
Seat position adjustment (to the backrest)	0 ± 4° to 45 ± 4°
Bed position adjustment (back + seat)	- 10 ± 4° (down) + 45 ± 4° (up)

REGISTRATION CERTIFICATE



ZENIT-MEDICINE.COM



ALHK-01-ZENIT

AUTOMATED CO2 LASER SURGICAL SYSTEM



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 ANALOGUES BY A 2.0-2.5 TIMES ENLARGED IMAGING FIELD OF SURGICAL BEAM IN THE OPERATIVE FIELD AND BY ARBITRARY SCANNING PATTERNS WITHIN IT. IT ALLOWS FOR THE AREAL UNIFORM VAPORIZATION OF BIOLOGICAL TISSUES WITHIN AN ARBITRARY CONTOUR



SPECIFICATIONS:

SKU#	134
Working distance, mm	300
Magnification, x	7.5 ± 0.37 / 15 ± 0.75 / 30 ± 1.5
Field of view diameter, mm	49 ± 2.5 / 24 ± 1.2 / 12 ± 0.6
Interpupillary distance adjustment, mm	58 ~ 75
Diopter adjustment, D	-7 to +7

ILLUMINATION SYSTEM:

Illumination source	LED
Maximum luminance (adjustable), lux, at least	10 000
Illuminated field diameter, mm, at least	70

INTEGRATED 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



CO2 LASER SET SPECIFICATIONS:

The power output of CO2 laser surgical system is controlled, W:

- in continuous mode	from 1.0 to 25
- in repetitively-pulsed mode	from 0.5 to 15
- in superpulsed mode	from 0.1 to 30

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

15 x 15

Scanning patterns

arbitrarily configured

Beam delivery unit of operative field

mirror-lens

Seven-knee manipulator with transmission coefficient

of at least 0.85

Main beam guidance system based on diode laser with wavelength $\lambda=0.635$ to $0.650 \mu\text{m}$ and controlled beam output power of 0 to 5 mW

Maximum capacity of smoke removal and filtration system, dm^3/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)

OPHTHALMOLOGY

LS-01-ZENIT

SLIT LAMP

- W/O DIGITAL CAMERA
- W/O OPHTHALMIC TABLE



THE SLIT LAMP IS DESIGNED FOR BIOMICROSCOPIC EXAMINATIONS OF THE ANTERIOR SEGMENT OF THE EYE. THE POSTERIOR SEGMENT OF THE EYE CAN ALSO BE EXAMINED WITH THE HELP OF AN ADDITIONALLY INSTALLED DIVERGING HRUBY LENS



KEY ADVANTAGES:

Excellent optical characteristics of the lamp are obtained due to the use of Grenou optical system, which provides a real stereo effect, a greater depth of field, high resolution, a better ratio of zooming to the covered field and a convergent beam path.

DELIVERY SET:

Slit lamp LS-01-Zenit

SPECIFICATIONS:

SKU#	39003
Type of stereo microscope	Grenou
Three level zooming, x	8.0±0.4/16.0±0.8/32.0±1.6
Working field diameter, mm	28.0±1.4/14.5±0.7/7.5±0.4
Ocular adjustment, dptr	-7 to +7
Interpupillary distance adjustment, mm	58 to 75
Filters	Blue, Green, Neutral, IR



LS-01-ZENIT

SLIT LAMP

- DIGITAL CAMERA
- W/O OPHTHALMIC TABLE



THE SLIT LAMP IS DESIGNED FOR BIOMICROSCOPIC EXAMINATIONS OF THE ANTERIOR SEGMENT OF THE EYE. THE POSTERIOR SEGMENT OF THE EYE CAN ALSO BE EXAMINED WITH THE HELP OF AN ADDITIONALLY INSTALLED DIVERGING HRUBY LENS



KEY ADVANTAGES:

Excellent optical characteristics of the lamp are obtained due to the use of Grenou optical system, which provides a real stereo effect, a greater depth of field, high resolution, a better ratio of zooming to the covered field and a convergent beam path.

DELIVERY SET:

1. Slit lamp LS-01-Zenit
2. TV camera
(resolution: 5 Mpix, maximum resolution: 2592x1944, USB connection: 2.0)

SPECIFICATIONS:

SKU#	39006
Type of stereo microscope	Grenou
Three level zooming, x	8.0 ± 0.4 / 16.0 ± 0.8 / 32.0 ± 1.6
Working field diameter, mm	28.0 ± 1.4 / 14.5 ± 0.7 / 7.5 ± 0.4
Ocular adjustment, dptr	-7 to +7
Interpupillary distance adjustment, mm	58 to 75
Filters	Blue, Green, Neutral, IR



LS-01-ZENIT

SLIT LAMP

- W/O DIGITAL CAMERA
- EQUIPPED WITH OPHTHALMIC TABLE



THE SLIT LAMP IS DESIGNED FOR BIOMICROSCOPIC EXAMINATIONS OF THE ANTERIOR SEGMENT OF THE EYE. THE POSTERIOR SEGMENT OF THE EYE CAN ALSO BE EXAMINED WITH THE HELP OF AN ADDITIONALLY INSTALLED DIVERGING HRUBY LENS



KEY ADVANTAGES:

Excellent optical characteristics of the lamp are obtained due to the use of Grenou optical system, which provides a real stereo effect, a greater depth of field, high resolution, a better ratio of zooming to the covered field and a convergent beam path.

DELIVERY SET:

1. Slit lamp LS-01-Zenit
2. Ophthalmic table with electric drive

SPECIFICATIONS:

SKU#	39001
Type of stereo microscope	Grenou
Three level zooming, x	8.0±0.4/16.0±0.8/32.0±1.6
Working field diameter, mm	28.0±1.4/14.5±0.7/7.5±0.4
Ocular adjustment, dptr	-7 to +7
Interpupillary distance adjustment, mm	58 to 75
Filters	Blue, Green, Neutral, IR



LS-01-ZENIT

SLIT LAMP

- DIGITAL CAMERA
- EQUIPPED WITH OPHTHALMIC TABLE



THE SLIT LAMP IS DESIGNED FOR BIOMICROSCOPIC EXAMINATIONS OF THE ANTERIOR SEGMENT OF THE EYE. THE POSTERIOR SEGMENT OF THE EYE CAN ALSO BE EXAMINED WITH THE HELP OF AN ADDITIONALLY INSTALLED DIVERGING HRUBY LENS



KEY ADVANTAGES:

Excellent optical characteristics of the lamp are obtained due to the use of Grenou optical system, which provides a real stereo effect, a greater depth of field, high resolution, a better ratio of zooming to the covered field and a convergent beam path.

DELIVERY SET:

1. Slit lamp LS-01-Zenit
2. TV camera
(resolution: 5 Mpix maximum resolution: 2592x1944, USB connection: 2.0)
3. Ophthalmic table with electric drive

SPECIFICATIONS:

SKU#	39005
Type of stereo microscope	Grenou
Three level zooming, x	8.0±0.4/16.0±0.8/32.0±1.6
Working field diameter, mm	28.0±1.4/14.5±0.7/7.5±0.4
Ocular adjustment, dptr	от -7 до +7
Interpupillary distance adjustment, mm	от 58 до 75
Filters	Blue, Green, Neutral, IR



LS-02-ZENIT

OPHTHALMOLOGICAL SURGERY COMPLEX



THE MULTIFUNCTIONAL COMPACT YAG LASER SYSTEM WITH LS-01-ZENIT SLIT LAMP IS EASY IN USE, EFFICIENT AND SAFE. IT MEETS ALL REQUIREMENTS OF LASER OPHTHALMIC SURGERY FOR DISRUPTIVE INTERVENTIONS, THUS PROVIDING GENTLE AND BLOODLESS TREATMENT OF INTRAOCULAR DISEASES IN CLINICS



SPECIFICATIONS:

SKU#	393
Laser type	YAG laser, solid-state, pulse
Laser beam delivery system	coaxial with LS-01-Zenit slit lamp
Single pulse and double pulse mode	+
Pilot beam brightness adjustment	+
Specialist protection filter	+
Wavelength, nm	1064
Aiming beam	diode, 635 nm, max. 1 MW
Pulse emission duration, ns	5 – 8
Pulse interval, msec	100 – 6 000



MEDICAL PORTABLE LAMPS

SSP-02-6/1-ZENIT

MEDICAL PORTABLE LAMP

- WITH THE RING LED LIGHTING UNIT
- THE CENTRAL HALOGEN LAMP
- THE FIVE-WHEEL BASE SUPPORT WITHOUT BRAKE



THE MEDICAL PORTABLE LAMP IS DEVELOPED FOR LIGHTING THE WORKING FIELD DURING SURGICAL PROCEDURES AND EXAMINATIONS IN CLINICS AND HOSPITALS



SPECIFICATIONS:

SKU#	367
Working distance, m	0.8
Working field diameter, mm	
- LED lamps	200
- halogen lamps	100
Maximum luminance in the center of the working field at a distance of 0.8 m, lux	
- LED lamps	40 000 ± 10 000
- halogen lamps	7 500 ± 2 500
Maximum luminance in the center of the working field at a distance of 0.8 m, lux, LED lamps	5.0
Power consumption, V*A	95
Power	AC single-phase network with frequency 50 ± 0.5Hz, Voltage, V: 220 ± 22
Dimensions (HxWxD), mm	1605 x 480 x 480
Weight, kg, ± 0,5kg	5.5



SSP-02-6-ZENIT

MEDICAL PORTABLE LAMP

- WITH THE RING LED LIGHTING UNIT
- WITH FIXATION UNIT FOR ATTACHMENT TO A MEDICAL CHAIR



THE MEDICAL PORTABLE LAMP IS DEVELOPED FOR LIGHTING THE WORKING FIELD DURING SURGICAL PROCEDURES AND EXAMINATIONS IN CLINICS AND HOSPITALS



SPECIFICATIONS:

SKU#	36701
Working distance, m	0.8
Working field diameter, mm	
- LED lamps	200
- halogen lamps	—
Maximum luminance in the center of the working field at a distance of 0.8 m, lux	
- LED lamps	40 000 ± 10 000
- halogen lamps	—
Maximum luminance in the center of the working field at a distance of 0.8 m, lux, LED lamps	5.0
Power consumption, V*A	28
Power	AC single-phase network with frequency 50 ± 0.5Hz, Voltage, V: 220 ± 22
Dimensions (HxWxD), mm	1605 x 480 x 480
Weight, kg, ± 0,5kg	5.0



SSP-02-6KM-ZENIT

MEDICAL PORTABLE LAMP

- WITH THE RING LED LIGHTING UNIT
- WITH FIXATION UNIT FOR ATTACHMENT TO A MEDICAL CHAIR



THE MEDICAL PORTABLE LAMP IS DEVELOPED FOR LIGHTING THE WORKING FIELD DURING SURGICAL PROCEDURES AND EXAMINATIONS IN CLINICS AND HOSPITALS



SPECIFICATIONS:

SKU#	36702
Working distance, m	0.8
Working field diameter, mm	
- LED lamps	200
- halogen lamps	—
Maximum luminance in the center of the working field at a distance of 0.8 m, lux	
- LED lamps	70 000 ± 10 000
- halogen lamps	—
Maximum luminance in the center of the working field at a distance of 0.8 m, lux, LED lamps	5.0
Power consumption, V*A	65
Power	AC single-phase network with frequency 50 ± 0.5Hz, Voltage, V: 220 ± 22
Dimensions (HxWxD), mm	849 x 101 x 83
Weight, kg, ± 0,5kg	2.0



SSP-02-3KM-ZENIT

MEDICAL PORTABLE LAMP

- WITH LED LAMPS
- WITH FIXATION UNIT FOR ATTACHMENT TO A MEDICAL CHAIR



THE MEDICAL PORTABLE LAMP IS DEVELOPED FOR LIGHTING THE WORKING FIELD DURING SURGICAL PROCEDURES AND EXAMINATIONS IN CLINICS AND HOSPITALS



SPECIFICATIONS:

SKU#	36703
Working distance, m	0.8
Working field diameter, mm	
- LED lamps	200
- halogen lamps	—
Maximum luminance in the center of the working field at a distance of 0.8 m, lux	
- LED lamps	40 000 ± 10 000
- halogen lamps	—
Maximum luminance in the center of the working field at a distance of 0.8 m, lux, LED lamps	5.0
Power consumption, V*A	35
Power	AC single-phase network with frequency 50 ± 0.5Hz, Voltage, V: 220 ± 22
Dimensions (HxWxD), mm	812 x 82 x 83
Weight, kg, ± 0,5kg	1.8





Rostec



Shvabe



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