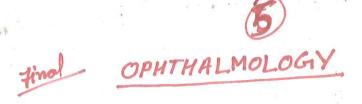


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LIST OF EQUIPMENT FOR THE DEPARTMENT OF OPHTHALMOLOGY (EYE)

- 1. Auto kerato refractometer
- 2. Non contact tonometer
- 3. Slit lamp with applanation tonometer
- 4. Indirect ophthalmoscope (Binocular)
- 5. Optical Biometer
- 6. ND Yag Laser
- 7. Wet field Bipolar coagulator
- 8. Digital vision chart
- 9. Flash Autoclave
- 10. Motorized OT Table
- 11. Motorized surgeon's stool
- 12. Cataract surgery set



1. TECHNICAL SPECIFICATIONS OF AUTO KERATO-REFRACTOMETER

Objective Refractometer Mode		
Sphere Range	-25D to +22D (0.12D/0.25D steps)	
Cylinder Range	$0 \text{ to} \pm 10 \text{D} (0.12 \text{D}/0.25 \text{D steps})$	
Astigmatic Axis Range	0° to 180° (in 1° or 5° steps)	
Minimum Measurable Pupil Diameter	Ø 2.0mm	
Corneal Curvature Mode		
Corneal curvature Radius	5.0 mm to 10.00mm (0.01 mm steps)	
Corneal Refractive Power	67.50D to 33.75D (0.12/0.25D steps)	
Corneal Astigmatic Refractive Power	0 to $\pm 10D$ (0.12/0.25D steps)	
Corneal Astigmatic Axial Angle	0° to 180° (in 1° or 5° steps)	
PD Measurement Range	20mm to 85mm(0.5 mm steps)	
Data Transport Terminal	.USB (import)/ RS-232C(export)/ LAN (export)	
Dimensions	317-341mm(W) x 521-538mm(D) x 447-477mm(H)	
Weight	15 Kg	
Power Supply	100-240V AC, 50-60 Hz, 30-70VA	

Unique Features:

- Rotary Prism Technology
- 8.5 -inch LCD Touch Screen Panel
- Connectable LAN
- Easy to load Printer.
- Motorized table

Pg -2

2. TECHNICAL SPECIFICATIONS OF NON-CONTACT TONOMETER WITH PACHYMETER

Ocular Pressure Measurement	
Measuring Range	1 to 30 mm Hg / 1 to 60 mm Hg (1mm
	Hg steps)
· · · · · · · · · · · · · · · · · · ·	Average indication:1mm Hg/0.1mm Hg
v	steps changeable
Corneal Thickness Measurement	
Measuring Range	0.4 to 0.75 mm(0.001 mm Step)
Monitor	8.5" WVGA color LCD monitor, Touch
	panel
Data Transport Terminal	USB (import)/ RS-232C(export)/ LAN
	(export)
Dimensions	286~ 326 (W) x 445~ 526 (D) x 466~615
	(H) mm
Weight	19.5 kg
Power Supply	100-240 V AC, 50-60 HZ,75 VA

Unique Features:

- R/L fully automated measurement
- Easy-to-Use Touch Screen Control Panel
- Additional Measurement Mode
- Flexible and Space Saving Layout with adjustable control panel
- New ergonomic optical head and headrest design
- Stable IOP measurement with soft Air-Puff
- Corneal thickness measurement for IOP compensation

Pg-3

3. SLIT LAMP WITH GOLDMAN APPLANATION TONOMETER

	Micr	oscope Unit	
Туре		Galileo Type	
Magnification		Drum, 5-step magnification	
Magnification steps		6/10/16/25/40	
Overall magnifica	tion (actual vision	6.37 (φ35.1mm)	
field)		9.94 (φ22.5mm)	
neid)		15.87 (φ14.1mm)	
	a.	25.37 (φ8.8mm)	
	*	39.62 (φ5.6mm)	
Eyepiece lens	Magnification	12.5x	
	Diopter adjustment	-5D to +5D	
	range	121	
Binocular tubes		PD adjustment: 55 to 78mm	
	Illun	nination unit	
Illumination	Slit width	0 to14mm, can be altered gradually(14mm=circle)	
field	Slit length	14 to 1mm, can be altered gradually(14mm=circle)	
8	Aperture diameter	φ14, 10, 5, 2, 1, 0.2 mm	
Slit direction		Vertical to horizontal, can be altered gradually	
		Inclination: 5°/10°/15°/20°	
		Side swing	
Filter	1	Blue filter, red-free filter, amber filter, UV cut filter	
		(normal use), IR cut filter (normal use), ND filter (13% transmission)	

3 centel

entel		107/ 207/	
Illumination	Halogen type:	12V, 30W	
lamp	LED type:	3A, 10W	
	Ba	se Unit	
Forward-backward movement		90mm	
Right-left movement		100mm	
Vertical movement		30mm	
Amount of movement in all directions		12mm	
	Chir	rest unit	
Amount of vertical movement of		80mm	
chinrest			
Fixation target		Fixation target with diopter adjustment	
" ?		Luminous fixation target	
Fixation lamp		LED (Red)	
	Other S	Specifications	
Dimensions	w/Table	550mm(W) x 420mm(D) x 752 to 782mm(H)	
	Weight: w/Table	19kg	
	Table size	550mm x 370mm	
Power Supply		100-240V AC, 50-60Hz, 110VA	

Additional Features:

- Motorized table
- Side viewing system
- Optional accessories 90D lens, 78 D lens, Gonio 3 mirror lens.

3 contd:

• TECHNICAL SPECIFICATIONS OF GOLDMANN APPLANATION TONOMETER

The measurement of the ocular pressure is carried out on the patient sitting at the slit lamp in conjunction with other routine microscopes examinations

• High accuracy of the measurement the average deviation in any one single examination does not exceed +/- 0.5 mm Hg.

• The intraocular pressure in mm Hg is found by multiplying the drum reading by 10.

• Scleral rigidity is not to be taken into account as the small volumetric displacement of 0.56cu mm increases the intraocular tension by about 2.5% only.

• Repeated measuring procedures do not reduce the ocular preassure as no massaging effect occurs.

There is no standardization and calibration difficulties.

Measuring force generated by reliable leverage weight.

• Installation: Applanation tonometer is mounted on 2 supporting pivot top of the binocular microscope and can be mounted on a plate on the microscope.

• Measuring range: 0-80mm hg in 2mm increments+0.5 mm hg

• Dimension: The pneumatic face 3.06mm

Measurement uncertainity of the force: Standard divergence

• Impingement of the measuring:0.49m, N<3s<1.5% of the rated value element.

Measurement:47mm wide x 33mm deep x 90mm height

• Net weight: 725 gm(without accessories)

04. W.BINOCULAR INDIRECT OPHTHALMOSCOPE

- LED / XHL illumination
- Separate fine tuning of the illumination beam ±4°
- Diffuser and 3 integrated spot sizes:small spot, medium and large.
- 3 integrated filters: red free, cobalt blue, yellow filter.
- Synchronized adjustment of convergence and parallax.
- Wall mounting unit with mPack and plug in transformer.
- Head band rheostat
- Illumination optics for small pupils down to 1.0 mm (including 90° angled adapter).
- 1 scleral depressor large, 1 scleral depressor small, pad with 50 fundus charts,
- Teaching mirror.
- Hard case.
- 20 Diopter lens.

5.101 Martin Optical biometer.

- Technology for measurement: OLCR (optical coherence reflectometry) for all the measurement.
- Light Source: Super Luminous Diode (SLD).
- Wave Length of light source for peripheral fixation: 570 nm.
- Power on Patients eye: <0.02 mW.
- The machine gives complete eye measurement at one shot.
- Machine gives the following measurement: 1-Biometry, 2-Keratometry, 3-Pachymetry, 4- Lens thickness, 5-Pupillometry, 6-White to white, 7-ACD(anterior chamber depth), 8- eccentricity of visual axis, 9- Retinal thickness.

- One reading contains 16 undivided full eye scans and 4 individual keratometry scan taken on 2 concentric rings along the patients visual axis.
- Keratometry is taken in two rings of 2.3mm & 1.6mm with 32 points.
- Formulae :SRK T, Holladay, Haggis S, Hoffer Q.
- Post LASIK formulae: Shammas Corneal thickness (CT).
- Shammas No history for refractive case, Holladay 2 (optional) and Olsen Formulae(Optional).

6.Nd:YAG LASER

Nd:YAG		
1064 nm		
The state of the s		
Fundamental		
4 nsec		
Q-switched		
3 Hz (single) / 1.5 Hz (burst)		
0.3 - 10.0 mJ / pulse (continuously		
variable)		
2 or 3 pulse / trigger		
8 μm		
16°		
0-500 μm (continuously variable,		
toward both anterior chamber and		
posterior chamber)		
Aiming laser		
Diode laser		

Wavelength 635 nm		
Output power	OFF, 0.5 - 25 μW	
Cone angle	16°	
Aiming method	Dual beam method	
Rotation of beam	360°	
Sli	t lamp	
Objective lens	f = 130 mm	
Eye piece	12.5 x	
Magnification (field of view)	32 x (6.2 mm), 20 x (10 mm), 12.5 x	
* · · · · · · · · · · · · · · · · · · ·	(16 mm), 8 x (25 mm), 5x (40 mm)	
Power Supply	Single-phase, 100 - 240 Vac, 50 / 60	
	Hz, 100 VA	
Dimensions / Weight	324 (W) x 407 (D) x 528.5 (H) mm / 16 kg 12.8 (W) x 16 (D) x 20.8 (H)" / 35.3	
	lbs.	

Additional features:

- Side viewing arm.
- Motorized optical table.

7. WET FIELD BIPOLAR COAGULATOR

- High frequency solid state circuitry.
- Compact in size, elegant look and easy to use.
- Reusable forceps, erasers and cables.
- Foot switch control.
- Audible indication.
- Dial for variable power output.

Specifications:

Supply voltage

:230V AC and 110V AC available on request

Frequency

: 50/60 Hz

HF output power

: 10Watts

Power adjustment control : Power adjustment control

Display range

: 0 - 10

Dimension

 $: 140(W) \times 50(H) \times 170(L)$

Casing

: ABS plastic / M.S powder coated

Weight

: 2 Kg approx.

Activation of HF power

: Foot switch (detachable)

Dial for variable power output with 7-segment digital display (optional)

Indicator lights for power on

Foot pedal included, hand switch option

Instructions printed on top of unit

8.DIGITAL VISION CHART

Product Features:

Wide angle full HD 22" LCD panel

- Testing distance: 6ft to 25ft with 0.25 ft increment
- Multimedia Access
- Built in Videos & Pictures
- Menu options in display for all functions
- Random Sequence
- Patient report

Technical Specifications:

- LCD Type: TFT LCD full HD display
- Resolution: 1920*1080p
- Luminance: 200cd/m2
- Remote control: Infrared
- Working distance: 6ft to 25ft with 0.25ft increment
- Connections: USB, Audio out
- Gross weight: 4.5Kg
- Unit dimension: 50.8cm*31.2cm*5.5cm
- Package Dimension: 56.5cm*37.5cm*11cm

9. FLASH AUTOCLAVE

Technical Specifications

- Should be a table top autoclave for Ophthalmic Applications.with N Types B Type cycles
- Two automatic programmes approx. at 2.2 bar at 134 degrees C and 1.1 bar

at 121 degree C. The equipment should have automatic pressure control switch / automatic water control device to ensure that the equipment does not run dry.

Should have flash cycle for rapid sterilization and should have an option for

liquid cycle)-

Should have Air Pump for closed door drying.

Should have rapid warm up facility. Built in reservoir to store water required to produce steam, and used water separately, for easy decantation.

The system should be equipped with required safety features. The door should have double locking safety feature and should open only with atmospheric pressure in the chamber.

Should have automatic cut-off to prevent overheating and cut-off for insufficient water, the machine should not start without sufficient water.

Should have a minimum chamber capacity of 20 litres or above.

Should have pressure display and temperature display.

Unit should function with 200-230Vac, 50/60 Hz input power supply.

Following accessories should be supplied along with the equipment: 1 Tray set (3 removable shelves, 1 holder and I frame) - stainless steel, 2 Spring Holder, 4 sets of spare fuses.

Pressure Safety Valve for over pressure protection

Equipment should be provided with a line cord (power cord) of acceptable durability, quality, length and current carrying capacity and should be compatible with Indian standard power socket. 14. Controls should be visible and clearly defined.

Labels and markings should be clear and visible

European Should have safety certificate from a competent authority/CE / FDA (US) / certificate or valid detailed electrical and functional safety test report from ERTL.

MOTORIZED OT TABLE

It has a maximum height of 920 mm and minimum height of 690mm

Ideal for standing or sitting working position

• It is an ideal operating table with the advantages of strong applicability, easy to operate

Adjusts conveniently and steady performance.

- Its ergonomic design ensures both surgeon and patient comfort
- Patient comfort is assured with deep antistatic cushions which are easy to clean
- The adjustable cushioned head-rest ensures doctor comfort and restraint during

operations.

Technical Specifications

D	IVIL	NSI	ONS

Length (With Head Rest) 1900 mm (75")
Width 600 mm (24")

Net Weight 120 kg.

ELECTRONIC MOVEMENTSUp & Down

Minimum Height690 mm (27")Maximum. Height920 mm(36")Stroke Length230mm (8.2")Weight Lifting150 kg.

Tilting (Forward & Reverse)

Back Rest Section 20° (Head Side)

Leg Section 30°

Power Requirements 230V AC /50 Hz, 110V AC /60 Hz

Fuses 2A Slow Blow

Power in VA 150 VA

MOTORIZED SURGEON STOOL

Technical Specifications

Dimensions

550 mm Length 480 mm Width 32 kg Net Weight Up&down Electronic Movements 510 mm Minimum Height 660 mm. Maximum Height 150 mm Stroke Length 250 Kg Weight Capacity

Electrical Specification

Power Supply AC 110 - 230V 60-50 Hz Fuse 1A Slow Blow

Power In Va 115 VA



12. CATARACT SURGERY SET (TITANIUM)

- Adult Wire speculum.
- Paediatric wire speculum.
- Superior rectus forceps (STAINLESS STEEL)
- Spring Action scissors
- Lims corneoscleral forceps
- Corneoscleral forceps
- Plain forceps (straight)
- Plain forceps(curve)
- Iris forceps
- Capsulorrhexis forceps
- Mcphersons (lens holding) forceps
- Iris repositor
- Sinskey hook type lens dialer
- Ball type lens dialer
- Corneal scissors
- Long Vannas scissors
- Simple vannas scissors
- Irrigating wire vectis (23G)
- Simcoe's irrigation and aspiration(classical) 21G
- Simcoe's irrigation and aspiration (reverse) 21 G
- Hydrodissection cannula (25G and 27G)
- Deweckers Scissors
- Plain Scissors(curved)
- Plain Scissors (straight)
- Spring action Barraquers needle holder(straight)
- Spring action Barraquers needle holder(curved)
- Straight Mosquito artery forceps (STAINLESS STEEL)
- Curved Mosquito artery forceps (STAINLESS STEEL)
- Towel clips. (STAINLESS STEEL)
- Suture tiers(straight)
- Suture tiers (curved)
- Lens expressor (STAINLESS STEEL)
- Wire vectis. (STAINLESS STEEL)
- AC maintainer(STAINLESS STEEL)
- Muscle hook (STAINLESS STEEL)
- Castroviejo needle holder (STAINLESS STEEL)