

OPHTHALMOLOGY

PRODUCT CATALOG



Since 1978
Quality | Service | Integrity

Hydrophobic IOL's with Pre-Loaded Delivery System

PRECISION & ACCURACY

IN ALL CONDITIONS

Supra Phob

Supra Phob
BBY



Hydrophobic Aspheric Fully Preloaded IOL
with 360° square edge for PCO prevention

CRYSTAL CLEAR VISION

AT ALL DISTANCES

Supra Phob
Regen



Multifocal IOL offering Clear Vision
at All Distances and at All Light Conditions

UNCOMPROMISING

CLARITY OF EYE SIGHT

Supra Phob **Toric**



IOL with Astigmatism correction
and 360° Square edge for PCO prevention

Restoring eyesight with
complete natural vision, vigor & glory



About Us

Appasamy Associates and Group of Companies are leading manufacturers and distributors of Ophthalmic Equipments, Microscopes, Lasers, IOL's, Microsurgical instruments and Pharmaceuticals.

From 1978, our three decades of work have been widely appreciated throughout the world. Our dedication in supporting our products has become a benchmark in the community. We have a dedicated R&D team to fulfill the state-of-the art requirements of the ophthalmic community. More than 15% of expenses are spent on the development of new products. We strive hard to place each and every piece of modern technology and equipment within the easy reach of ophthalmic surgeons and vision care professionals in India.

Our various manufacturing facilities at Chennai and Puducherry have got quality system certifications, audited by TUV, DNV and ITC for ISO 9000 and ISO 13485 requirements. The certification bodies also provided CE marking for various products and CE compliance certifications for Class I products. Our Slit Lamps and Keratometers have been awarded UL mark. We are resolved and dedicated to continue our work that will provide the common man with easier and affordable access to the best vision care services possible.



PRODUCT LIST

PRODUCT DESCRIPTION	PAGE
REFRACTION & DIAGNOSTIC EQUIPMENTS	4 - 11
<ul style="list-style-type: none">• APPA OPHTHALMIC REFRACTION UNIT• I CHART - HD SMART• BINOCULAR INDIRECT OPHTHALMOSCOPE WIRELESS• APPA APPLANATION TONOMETER• STREAK RETINOSCOPE• VIDEO INDIRECT OPHTHALMOSCOPE• REFRACTION HEAD• SLIT LAMP SERIES• HAND HELD SLIT LAMP• SLIT LAMP IMAGING SYSTEM• APPA AUTO REF-KERATOMETER & LENSOMETER	
BIOMETRY & CORNEAL EQUIPMENTS	12 - 13
<ul style="list-style-type: none">• OPHTHALMIC ULTRASOUND A-SCAN• PACHYETER• OPHTHALMIC ULTRASOUND SCANNER (MARVEL II)• KERATOMETER	
INTRAOCULAR LENS	14 - 15
GLAUCOMA PRODUCTS	16 - 17
<ul style="list-style-type: none">• APPA AUTO PERIMETER• YAG - SLT COMBO & APPA YAG LASER	
RETINA EQUIPMENTS	18 - 20
<ul style="list-style-type: none">• SINGLE SPOT & MULTI SPOT GREEN LASER• AMOGH NANO• VITRECTOMY & CRYO• APPASAMY OCT• APPA FUNDUS CAMERA	
APPA SYNOPTOPHORE & CORNEAL CROSS LINKING	21
SURGICAL EQUIPMENTS	22 - 28
<ul style="list-style-type: none">• MICROSCOPES• RET-VIEW, BIPOLAR COAGULATOR & LIGHT SOURCE• APPA OPHTHALMIC MOBILE OT TABLE & PATIENT UNIT FOR OPHTHALMIC SURGERY• GALAXY SERIES - PHACOEMULSIFICATION & POSTERIOR VITRECTOMY SYSTEM• SURGEON STOOL• OPHTHALMIC EQUIPMENT STAND	

For Pharmaceuticals, Microsurgical Instruments and
Intraocular Lenses Separate Catalogues are available
For more details visit our website

APPA OPHTHALMIC REFRACTION UNIT

MODEL : AARU-2000

Features

- The Appa Ophthalmic Refraction Unit has upholstered top with cushioned seat and back rest
- The Ophthalmic Chair has comfortable arm rests and Sliding tabletop for accommodating two equipments
- The Ophthalmic Chair height is adjustable and easily operable with the help of foot switch control
- Adjustments of the Ophthalmic Chair are motorized. Left handed version is also available as an option

Specifications

Seat height	:	550 mm to 710mm
Net weight	:	189Kg
Sliding table top loaded weight	:	25Kg (max 2 equipments)
Sliding table top size	:	790 X 400mm
Trial lens set tray size	:	555 X 345 X 10mm
Prescription table size	:	400 X 410mm
Motor	:	24VDC
Minimum area required	:	8' x 10' for erect position
Power supply for auxiliary equipments	:	3, 4, 6, 12V, & 230 V (4 Sockets)
Standard colors available	:	Blue, Grey, Maroon, Green, Black

Electrical Specifications

Power supply	:	~230 V (Optional 110V) , 50-60 Hz
Fuse	:	5A slow blow
Power in VA	:	350 VA

Standard Accessories

- Foot switch control for chair up & down
- Head rest
- Retinoscope and Ophthalmoscope tray
- Indirect ophthalmoscope arm
- Near vision arm
- Visual Acuity chart arm
- Over head reading lamp
- Trial lens set tray

Optional Accessories at an extra cost

- Slit lamp
- Binocular indirect ophthalmoscope
- Keratometer
- Autorefractometer
- Streak retinoscope
- Chart projector / I Chart HD Smart
- Trial lens set
- Refractor head (Phoropter)
- Refractor head arm with counter balancing mechanism
- Surgeon Stool
- Foot Rest



APPA OPHTHALMIC REFRACTION UNIT

MODEL : AARU-2000 ELEGANT

Features

- The Appa Ophthalmic Refraction Unit has upholstered top with cushioned seat and back rest
- The Ophthalmic Chair has comfortable arm rests and Sliding tabletop for accommodating two equipments
- The Ophthalmic Chair height is adjustable and easily operable with the help of foot switch control
- Adjustments of the Ophthalmic Chair are motorized. Left handed version is also available as an option

Specifications

Seat height	:	550 mm to 710mm
Net weight	:	196Kg
Sliding table top loaded weight	:	25Kg (max 2 equipments)
Sliding table top size	:	790 X 400mm
Trial lens set tray size	:	555 X 345 X 10mm
Prescription table size	:	400 X 410mm
Motor	:	24VDC
Minimum area required	:	8' x 10' for erect position
Power supply for auxiliary equipments	:	3, 4, 6, 12V, & 230 V (4 Sockets)
Standard colors available	:	Blue, Grey, Maroon, Green, Black

Electrical Specifications

Power supply	:	~230 V (Optional 110V) , 50-60 Hz
Fuse	:	5 A slow blow
Power in VA	:	350 VA

Standard Accessories

- Foot switch control for chair up & down
- Head rest
- Retinoscope and Ophthalmoscope tray
- Indirect ophthalmoscope arm
- Near vision arm
- Visual Acuity chart arm
- Over head reading lamp
- Trial lens set tray (Covered Compartment)
- Foot Rest

Optional Accessories at an extra cost

- Slit lamp
- Binocular indirect ophthalmoscope
- Keratometer
- Autorefractometer
- Streak retinoscope
- Chart projector / I Chart HD Smart
- Trial lens set
- Refractor head (Phoropter)
- Refractor head arm with counter balancing mechanism
- Surgeon Stool



APPA OPHTHALMIC REFRACTION UNIT

MODEL : AARU-2002

Features

- The Appa Ophthalmic Refraction Unit has up upholstered top with cushioned seat and back rest
- The Ophthalmic Chair has comfortable arm rests and a tip-up foot rest that moves up and out of the way for patient convenience and comfort
- The Ophthalmic Chair height is adjustable and easily operable with the help of foot switch control
- Adjustments of the Ophthalmic Chair Unit, back function is done manually. Left handed version is also available as an option

Specifications

Seat height	: 550 mm to 710mm
Net weight	: 176 Kg
Sliding table top loaded weight	: 25Kg (max 2 equipments)
Sliding table top size	: 790 X 400mm
Trial lens set tray size	: 555 X 345 X 10mm
Motor	: 24VDC
Minimum area required	: 8' x 10' for erect position
Power supply for auxiliary equipments	: 3, 4, 6, 12 V ,& 230 V (4 Sockets)
Standard colors available	: Blue, Grey, Maroon, Green, Black

Electrical Specifications

Power supply	: ~230 V (Optional 110V) , 50-60 Hz
Fuse	: 5A slow blow
Power in VA	: 350 VA

Standard Accessories

- Foot switch control for chair up& down
- Head rest
- Retinoscope and Ophthalmoscope tray
- Indirect ophthalmoscope arm
- Near vision arm
- Visual Acuity arm
- Over head reading lamp
- Trial lens set tray
- Foot Rest

Optional Accessories at an extra cost

- Slit lamp
- Binocular indirect ophthalmoscope
- Keratometer
- Autorefractometer
- Streak retinoscope
- Chart projector / IChart HD Smart
- Trial lens set
- Refractor head (Phoropter)
- Refractor head arm with counter balancing mechanism
- Surgeon Stool



LED DIGITAL VISUAL ACUITY CHART

MODEL : i Chart HD SMART

Specifications

Display Type	: 22 Inch LED Backlight
Resolution	: 1920 x 1080 @ 60 Hz
Chart Window Size	: 477 X 272mm
Contrast / Brightness	: 3000:1/250 Cd/m ²
Standard Chart	: Letters, Numbers, Tumbling E, Pediatric, Landolt C, Languages, Contrast, logMAR, Snellen Chart, Crowding Bar, Single Row, Single Column, Single Letter, ETDRS chart.
Range	: 3ft to 20ft (1mt to 6mt)
Special Chart Type	: Astigmatism, Fixation Target, Fixation Disparity, Amsler Grid, Polarization Test, Vernier Acuity, Pelli-Robson Contrast Test, Lea Symbols, Lea Numbers, Peadiatric, Phoria Test, Railway Test, Signal Test, HOTVX Test, Worth4Dot, Cross Cylinder test, Fan and Block Test, Dot chart, Aniseikonia, Ishihara, Duo Colour for all charts etc.,
Advanced Features	: Favourite charts, Default chart, V/ A Scale (Customized), Update
Dimensions (h x w x d)	: 504 x 304 x 44 mm
Multimedia	: Images, Video, Animation (USB Support)
Distance of Installation	: 1M - 6M (Step by 1 meter)
Chart Change Over Device	: Remote Control
Weight	: 5.5 Kgs (Approx)
Standard Accessories	: Remote Control, Multipurpose screws & washer-4set, Powercord, Chair Mountable base plate
Optional Accessories	: Floor Stand



BINOCULAR INDIRECT OPHTHALMOSCOPE

Model : AAIO WIRELESS

Technical Specifications

Focus distance	: 300 - 800 mm
Inter Pupillary distance	: 54 - 74 mm
Pupil size optics	: 1mm
Illumination	: LED illumination
Field	: Good, Clear circular
Illumination spot size	: Ø4.0 mm, Ø3.0 mm, Ø1.2 mm
Illumination area	: Ø80 mm, Ø60 mm, Ø25 mm (at the distance 500mm)
Illumination source	: LED
Illumination control	: Linear Intensity Control from 0 to 100%
Filters	: Cobalt blue, Green (Red - free)

Electrical Specifications

Power supply	: 110-230 V AC, 50-60 Hz
Light source	: LED
Battery	: Rechargeable 3.7V DC

Physical Parameter

Weight	: Net 550g & Gross 2.1Kg
Dimensions (L x B x H)	: 240 x 210 x 130 mm

Features

Unplugged, Compact, Light weight, Vibration free, 100% Mobility, Wireless with Rechargeable battery, Continuous usage up to 5hrs, Rechargeable battery provides more than 1000 charging cycles. Optics can be tipped and locked at various positions

Standard Accessories

- Battery charger (1)
- Carrying case (1)
- Scleral depressor (1)
- Fundus chart (1)
- Marking pencils (4)
- Instruction manual

Optional Accessories

- 20 Diopters Aspheric viewing lens,
- Double sided Co-observation teaching mirror



APPA APPLANATION TONOMETER

MODEL : AATM 5001 / 5005

Technical Specifications

Type	: Applanation tonometer
Principle	: Goldmann tonometry
Measurement range	: 0 - 80 mmHg in 2 mmHg steps
Measurement accuracy	: ± 0.5 mm Hg

Physical Parameters

Dimension (W x D x H)	: 47 x 30 x 85 mm
Weight	: Net 800 gm. [approx.]

Standard Accessories

1. Calibration bar (1)
2. Prism (1)
3. Mount base (for head mount model only)
4. Tonometer base plate (for base plate model only)



CORRECT MIRES ALIGNMENT

STREAK RETINOSCOPE

Model : AA 16

Features

- Simple sturdy construction,
- Compact and light weight
- Retinoscope is adjustable for preferred eye alignment
- Streak revolves 360° without stops
- Width of streak is controlled by smooth up and down action of thumb slide
- Instrument includes a power adaptor

Specification

Working distance	: 50 cm
Lamp	: 4V 0.9A / 3.6 W
Length	: 230 mm
Weight	: 150g
Standard Accessories	: 1. Packing case (1), 2. Power adaptor (1)



VIDEO INDIRECT OPHTHALMOSCOPE

MODEL : VIO-7/AAVIO-7 HD

Features

- High Resolution Full HD camera 1920 x 1080p, TE cooled, with IR cut filter, broadcast quality, Real-Time High-Resolution Video Capture.
- Telemedicine based screening of infants - ROP
- Instant Play back and Continuous video play
- Snap shot of single picture enables us to take printout
- Foot switch for freezing an image and taking snap shots
- Simultaneous viewing on monitor plus video recording in a DVR and in laptop
- We can store the video and images in PC or in a Laptop
- Large Visual Field angle - Field Angle : 45°



Technical Specifications

- Stereoscopic Binocular view
- High transmission optics reduces reflections and excellent Fundus observation
- Small Pupil Adaptability
- Contract Color filters, Wide angle soft light diffuser (Grey, RED free, Blue, Heat Absorption)
- Long range focusing lens for the camera 250-800 mm
- High brightness variable LED Illumination, the unit enables an operator to view from the posterior pole to the equator as a single image
- 100% dust proof optics
- Optional Manual focus for consistent picture quality
- Capture exactly what you see through the Oculars in real time wide angle soft light diffuser

REFRACTOR HEAD- MANUAL

MODEL : AA 201

Features

- Subjective type Refraction Testing Equipment manual Refractor with High Quality Lenses.
- Smooth, accurate measurement of Spherical and Cylindrical features, superb range of Auxiliary Lenses.
- Unique Cross Cylinder Configurations, Convergence System allows Optimal patient Examination.
- Both side of the lenses are Anti-Reflection Coated.

Measurement Range

Spherical power	: -19.00 D to +16.75 D in 0.25 D step
Cylinder power	: 0 to -6.0 D and 0 to -8.0 D (with auxiliary cylinder lens at -2 D)
Step	: 0.25 D
Cylinder Axis	: 0° to 180° in 5° step
Cross Cylinder	: ±0.25 D
Rotatory Prism	: 0 to 20Δ in 1Δ step
Pupillary Distance adjustment	: 50 to 75 mm in 1 mm step
Forehead Rest adjustment	: 16 mm
Vertex Distance	: 13.75 mm
Finish Color	: Grey & Black

Content of Auxiliary Lens Dial

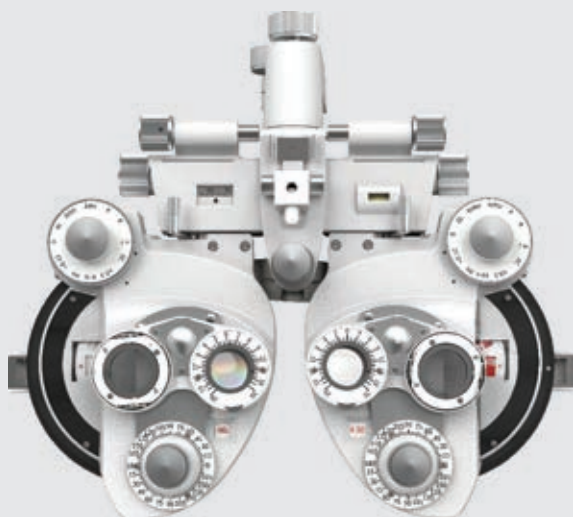
"o/o"	: Open aperture
"r"	: Retinoscopic lens + 1.5 D
"p"	: Polarizing lens (45°-left eye & 135°-right eye)
"wmh/rmh"	: Maddox rod- horizontal white (left) red (right)
"wmv/rmv"	: Maddox rod- vertical white (left) red (right)
"gl"	: Green lens
"rl"	: Red lens
"ph"	: Pin hole
"oc"	: Occluder

Physical Parameters

Dimensions	: 340 mm (L) x 100 mm (W) x 290 mm (H)
Weight	: Net 5.0 Kg and Gross 7 Kg

Standard Accessories

- Auxiliary lens (1 set) • Near point card with holder (1) • Reading rod (for near vision test) (1)
- Face shield cover (left & right) (1) • Stand arm with retaining screw (1)



SLIT LAMP AIA-12 Model

Model : AIA-12 2S-L, AIA-12 3S-L, AIA-12 5S-L, AIA-12 Zoom-L



Models

Microscope
Magnification Change
Eye Pieces
Magnifications Ratio

Real Field of View

Inter Pupillary Distance

Diopter Adjustment

Working Distance

Gross Weight

Net Weight (Packed)

Dimension (mm)

AIA-12 2S-L

Galilean

2 Position Lever

10x or 15x

10x, 16x or 15x, 24x

20, 12.5 or 14, 9 mm

52 - 90 mm Adjustable

± 8 D

100 mm

18.000 Kg.

22.500 Kg.

650(L) x 480(W) x 580(H)

AIA-12 5S-L / 3S-L

Galilean

5 Step Drum Rotation

12.5x

6x, 10x, 16x, 25x, 40x for 5Step

10x, 16x, 25x for 3Step

43, 27, 16, 11, 7.0mm, for 5Step

27, 16, 11mm for 3Step

50 - 78 mm Adjustable

± 8 D

100 mm

19.000 Kg.

24.000 Kg.

650(L) x 470(W) x 580(H)

AIA-12 Zoom - L

Galilean

Manual Continuous Zoom

12.5x

Continuous from 6x to 40x

Continuous from 7 to 43

50 mm - 78 mm Adjustable

± 8 D

100 mm

19.800 Kg.

24.500 Kg.

650(L) x 470(W) x 580(H)

Common Specifications

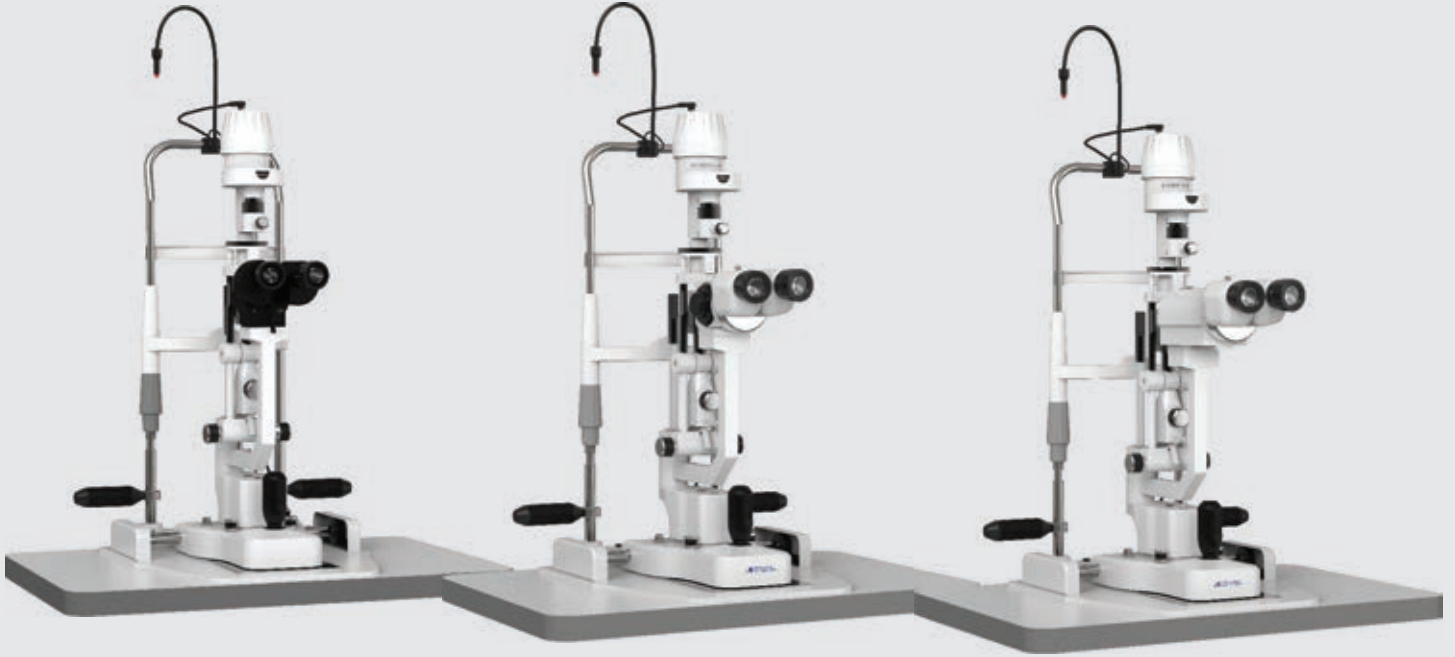
Slit image Width	:	0 to 14 mm continuously variable
Slit image Length	:	0 to 14 mm continuously variable
Slit Apertures	:	0.2mm, 2mm, 4mm, 5mm, 8mm, 10mm, 14 mm
Slit Angles	:	0° to 180°
Power Adopter	:	100-240v AC~, 47-63Hz, 0.3A, 5VDC, 2A
Input Voltage	:	5VDC, 2A
LED (Lamp)	:	3.4V, 700mA
Filters	:	Heat absorbing, Green (Red free), Cobalt blue
Power Consumption	:	31 VA (Max)
IP Category	:	IP20

Movement Range

Longitudinal In/Out	:	99 mm
Lateral (Left / Right)	:	118 mm
Vertical (Up/Down)	:	30 mm
Chin Rest Range	:	85 mm

SLIT LAMP AIA-11 Model

Model : AIA-11 2S-L, AIA-11 3S-L, AIA-11 5S-L, AIA-11 ZOOM-L



Models

Microscope
Magnification Change
Eye Pieces
Magnifications Ratio

Real Field of View

Inter Pupillary Distance
Diopter Adjustment
Working Distance
Gross Weight
Net Weight (Packed)

AIA-11 2S-L

Galilean
2 Position Lever
10x or 15x
10x, 16x or 15x, 24x

20, 12.5 or 14, 9 mm

52 - 90 mm Adjustable
± 8 D
100 mm
17.150 Kg.
26.000 Kg.

AIA-11 5S-L / 3S-L

Galilean
5 Step Drum Rotation
12.5x
6x, 10x, 16x, 25x, 40x for 5Step
10x, 16x, 25x for 3Step
43, 27, 16, 11, 7.0mm, for 5Step
27, 16, 11mm for 3Step
50 - 78 mm Adjustable
± 8 D
100 mm
17.700 Kg.
28.000 Kg.

AIA-11 Zoom - L

Galilean
Manual Continuous Zoom
12.5x
Continuous from 6x to 40x

Continuous from 7 to 43

52 mm - 78 mm Adjustable
± 8 D
100 mm
17.800 Kg.
28.000 Kg.

Common Specifications

Slit image Width : 0 to 14 mm continuously variable
Slit image Length : 0 to 14 mm continuously variable
Slit Apertures : 0.2mm, 1mm, 3mm, 4mm, 6mm, 10mm, 14 mm
Slit Angles : 0° to 180°
Slit Inclination : 5°, 10°, 15°, 20°
Power Adopter : 100-240v AC~, 47-63Hz, 0.3A, 5VDC, 2A
Input Voltage : 5VDC, 2A
LED (Lamp) : 3.4V, 700mA
Filters : Heat absorbing, Green (Red free), Cobalt blue
Power Consumption : 31 VA (Max)
IP Category : IP20

Movement Range

Longitudinal In/Out : 99 mm
Lateral (Left / Right) : 118 mm
Vertical (Up/Down) : 30 mm
Chin Rest Range : 85 mm
Dimension (mm) : 530(L) x 380(W) x 780(H)

HAND HELD SLIT LAMP

MODEL : PSL AIA-11

Microscope

Eye piece	: 10x
Magnification	: 10x
Field of view	: Ø10 mm
Diopter Adjustment	: -7 D to +7 D
Inter Pupillary Distance	: 50-70 mm variable (At Eye piece 10X)
Working Distance	: 80 mm

Slit illuminator

Slit Width	: 0-11 mm Continuously variable
Slit Length	: 11 mm
Illumination Angle	: 30°
Filters	: Color temperature conversion filter, Green(Red free), Cobalt Blue
Light Source	: High illumination White LED
Power Supply source	: 7.4 V 68 mAh Li-ion battery
Battery Operating time	: About 2 hours (In full charged state with maximum illumination)

Electrical Specifications

Power Supply	: ~110-240 V, 50-60 Hz
Charger Output Voltage	: DC12 V, 500 mAh

Physical Parameters

Dimensions (W x B x H)	: 195 x 105 x 230 mm
Weight	: 700gms approx (including Battery)

Standard accessories

1. Carrying case(1), 2. Battery(2), 3. Battery charger(1), 4. Forehead support(1)
5. Diopter adjustment bar(1), 6. Instruction Manual (1)

Optional Accessories

- Eye piece 15x(2)



SLIT LAMP IMAGING

Model : SL-CAM ICM-7

Technical Specifications

Camera	: 5 megapixel CMOS camera
Image & Video resolution	: 2592 x 1944
Beam splitter	: 20/80
Slit Lamp	: 5 (or) 3 step slit lamp
Image Capture	: Remote switching and software triggering
Software	: User friendly software, compatible with version of windows 10 and above

Slit lamp System

Magnifications	: 6x, 10x, 16x, 25x, 40x
Eye Pieces	: 12.5x
Focus Distance	: 100 mm
Inter Pupillary Distance	: 55 mm to 75 mm
Illumination	: 3.4V - 1Watts LED
Background illumination	: 3.4V - 1Watts LED
Slit Adjustment	: 0 to 14 mm continuous
Slit Aperture	: 14 mm, 10 mm, 6 mm, 4 mm, 3 mm, 1 mm
Slit Rotation	: 0° to 180°
Filters	: Heat absorbing, Green (Red free), Cobalt blue, Diffuser

Electrical Specifications

Power Supply	: ~110-230 V, 50-60Hz
Fuse	: 3A
Power Consumption	: 420 VA(Max.)



APPA AUTO REF- KERATOMETER

AARK-7000 MODEL : AARK-IM

Refractometry

Sphere (SPH)	: -25D to +22D (when VD=12mm) (Increments : 0.12D and 0.25D)
Cylinder (CYL)	: 0D to ±10D (Increments : 0.12D and 0.25D)
Axis (AX)	: 1° to 180° (Increments : 1° & 5°)
Cylinder Form	: -, +, MIX
Minimum Pupil Diameter	: Ø 2.0 mm
Vertex Distance (VD)	: 0, 12.0, 13.5 mm
Pupil distance (PD)	: 10 to 85mm (Increments : 1mm)

Keratometry

Radius of curvature	: 5.00 to 10.2mm (Increments : 0.01mm)
Refraction index	: 1.3375
Corneal power	: 33.00 to 67.50D (Increments : 0.05/0.12/0.25D)
Corneal Astigmatism	: 0D to -15D (Increments : 0.05/0.12/0.25D)
Axis	: 1° to 180° (Increments : 1° & 5°)

Others

Corneal diameter	: 2.0 to 12.0mm (Increments : 0.1mm)
Memory	: 10 measurements for each eye
Printer	: Thermal Printer
Monitor	: 7" LCD Color Monitor
Movable distance of chinrest	: 65mm
Dimension	: 265(w) x 480(L) x 445(H) in mm
Weight	: 20kgs
Data output	: USB, Video Terminal and Bluetooth

Standard Accessories

- Model eye • Dust cover • Chinrest paper • Printer Paper • Operating manual
- Power supply cable • Dust proof cover

Power supply	: AC 100-240V, 50/60Hz
Power saver	: 5 min



LENSOMETER

MODEL : KMS 14

Specification

Type	: External Reading
Target	: Corona and Cross, Rotatable 360°

Vertex Power Range

Power Measurement Range	: -25 D to +25 D
Acceptable Lens Diameter	: Ø20 mm To Ø80 mm
Power Measurement	: 0 D to 10 D (In steps of 0.25 D) 10 D to 25 D (In steps of 0.50 D)

Cylinder Axis (0° - 180° Axis Scale)	: 1° to 180° (In steps of 1°)
Prismatic Power	: 0 to 6 (In steps of 1)
Eyepiece Focusing Range	: 0 to 5 Diopters
Accuracy	: Accurate centering and Marking of Lenses

Electrical Input

- : (i) AC 220V - 240V, 50Hz,
AC 110V - 130V, 60Hz (Optional)
- : (ii) Battery Specification: R6 1.5V [2 No's]

Standard Accessories

- : Contact Lens Holder, LED [2 No's], Battery [2 No's]
- Dust Cover, User's Manual

Instrument Dimensions

Instrument Tiltable Angle	: Continuously Variable from 30° to 90°
Height	: 350 to 450 mm
Width	: 160 mm
Depth	: 250 to 400 mm
Weight	: Net - 5.5 Kgs, Gross - 7.0 Kgs (Approximately)

OPHTHALMIC ULTRASOUND SCANNER

MODEL : **Appascan MAX**

Technical Specifications - Ascan

Ascan Probe

Probe frequency : 10 MHz
 Fixation : Internal LED

Measurement Range

Axial Length : 14.0 mm to 40.0 mm
 ACD : 2.0 mm to 6.0 mm
 Lens Thickness : 2.0 mm to 7.5 mm
 Measurement Accuracy : ± 0.1 mm

Measurement Techniques

Method : Immersion / Contact
 Mode : Auto / Manual
 Lens Types : Aphakic, Normal, Cataract, Dense Cataract, Pseudophakic (Silicone, PMMA, Others), Silicone Oil
 IOL Calculation Formulae : SRK-T, SRK II, Holladay, Binkhorst, Hoffer-Q, Haigis, AME*, and Post Refractive Formulae

Display : High resolution 8 inch color display with Touch screen

Control

Storage : 100 patient records, 10 Preset User, 25 IOL configurations
 Camp Mode : Fast Measurement with IOL calculation in single screen
 Printer : Fast Thermal printer with Auto cutter

Power

Electrical Requirements : AC 110 - 240V, 50 / 60Hz

Other Features

- Auto / Manual Gain
- Automatic calculation of standard deviation and average axial length (series of 10 measurements)
- Simultaneous display of 3 different IOL calculations
- RTC shows the Date and Time throughout the life of the instrument.
- Various user Programmable printouts Format
- Measurement possible for Various Velocity of each segment.
- * AME Formula - The new generation programmed software takes care of any Axial Length



OPHTHALMIC ULTRASOUND SCANNER WITH PACHYETER

MODEL : **Appascan MAX - AP**

Technical Specifications

ASCAN

Ascan Probe

Probe Frequency : 10 MHz
 Fixation : Internal LED

Measurement range

Axial Length : 14.0 mm to 40.0 mm
 ACD : 2.0 mm to 6.0 mm
 Lens Thickness : 2.0 mm to 7.5 mm
 Measurement Accuracy : ± 0.1 mm

Measurement Techniques

Method : Immersion / Contact
 Mode : Auto / Manual
 Lens Type : Aphakic, Normal, Cataract, Dense Cataract, Pseudophakic, (Silicone, PMMA, Others), Silicone Oil

IOL Calculation

Formulae : SRK-T, SRK-II, Holladay, Binkhorst, Hoffer-Q, Haigis, AME*, and Post Refraction Formulae

Display

Control

Storage : 100 Patient Records, 10 Preset Users, 25 IOL Configuration
 Camp Mode : Fast Measurement with IOL calculation in single
 Printer : Fast Thermal Printer with Auto Cutter

Power

Electrical Requirements : AC 110-240V, 50 / 60Hz

Other Features

- Auto / Manual Gain.
- Automatic calculation of standard deviation and average axial length (serial of 10 measurements)
- Simultaneous display of 3 different IOL calculation
- RTC Shown the Date Time throughout the life of the instrument.
- Various user Programmable printouts Format
- Measurement possible for various velocity of each segment.
- * AME Formula - The new generation programmed software care of Axial Length.

PACHYETER:

Specifications:(General)

Measurement Range : 200-1000 microns
 Accuracy : ± 5 microns
 Frequency : 20MHz
 Communication : RS232 for PC connection

IOP Adjust Software

Easily adjust IOP based on measured CCT

CCT Measurements

Guaranteed fast and easy Measurements.

Scan Modes

Continuous / Mapping
 User Programmable Mapping (up to 10 Maps)

Measurements

Adjustable Corneal Velocity
 Automatic Sensing Algorithm
 Measurement Review
 100 Scan Average with Standard Deviation

Probe

20 MHz Angled or Straight probe



OPHTHALMIC ULTRASOUND SCANNER

MODEL : MARVEL II AB-SCAN with UBM

Technical Specifications

	B SCAN	UBM
Probe type	: Contact probe	Immersion and Contact
Frequency	: 12.0 MHz (optional: 10 MHz and 20 MHz)	35 MHz and 50 MHz
Scan angle	: 20° to 60°	20° to 35°
View zone	: 30 to 60 mm	15mm [d] x 18mm [w] @ 30°
Axial resolution	: 300 microns	40 microns
Lateral resolution	: 500 microns	50 microns
Gain	: -128 to +128dB	-128 to +128dB
TGC	: Near, Mid, Far	Near, Mid, Far
Measurements	: Calipers, Area, Text, Arrow	Angle, Calipers, Area, Text, Arrow

A SCAN

Probe	: 10 MHz / Dia 6 mm / in-built red LED
Measurement range	: 12 to 40 mm
Scan mode	: Auto / Manual
Scan method	: Contact / Immersion
Gain control	: 0 to 100 %
IOL formulas	: SRK/T, SRK II, Binkhorst II, Holladay 1, Hoffer-G, Haigis, Post Lasik
IOL configuration	: More than 200

Common Specifications

Printer	: Any PC support standard printer (Laser, Deskjet, etc...)
Data exporting	: JPEG, PDF, HTML, MHT, RTF, XLS, XLSX, CSV, TEXT, IMAGE
Patient record storage	: Data stored in system hard disk (1TB)
Image exporting	: JPEG, TIFF, PNG, BMP, GIF
System input devices	: USB Keyboard, Foot pedal, Optical mouse
Probes	: B-probes and UBM probes operate from the same console with up to 4 probes per single console
Recording	: 600 Frames per cine (Total 600 x 10= 6000 Frames)

Variants Available

- : Marvel B-scan, Marvel B-scan with UBM,
- Marvel II AB-scan, Marvel II AB-scan with UBM.

Electrical Specifications

Power supply	: AC 110-240V, 50/60Hz
Power consumption	: 150VA

Physical Parameters

- : Gross weight 24Kg and with stand 34Kg approx



KERATOMETER

MODEL : KMS 6






Features

- Coincidence focusing system. Positive measurements to 0.02mm accuracy.
- One-position instruments. Measure both meridians without changing the optical system.
- 15x Wide-angle EYE piece.
- Two-way adjustment to fit patient.
- Accurate measurement of corneal curvatures
- Allows subjective review of corneal surface
- Measures concave surfaces for contact lens fitting
- Easy elevation and lowering allows quick patient positioning
- Engraved focusing scale on eyepiece
- Dual eye level sighting system. Facilitates horizontal alignment.
- Clear, uniform illuminated mires
- Accurate of 0.012D from 36D to 52D

Measuring range	: Radius of curvature, 6.4 ~ 9.4 mm (In 0.05 mm steps), : Diopter 36 ~ 52 (in 0.25 steps)
Corneal astigmatism axis	: 0° - 180°
Instrument Dimensions	: Height -16", Width - 7", Length - 19"
Weight	: 7.0 Kgs approximately
Colour / Finish	: Black
Mode of operation	: Continuous
Electrical Input (~ AC)	: [1] 230v, 50 Hz [2] 110v, 60 Hz (Optional)
Lamp	: LED 3.4V 50mA (6 nos)
Standard Accessories	: Dust Cover, Spare Bulbs (2 No's)
Optional Accessories	: Motorized Instrument Table (Extra cost)



HYDROPHOBIC ACRYLIC FOLDABLE INTRAOCULAR LENS with Preloaded Delivery System

	Brand & Model	Optic Diameter	Overall Length	Haptic Angulation	Optic Design	Diopter Range	Material
	Supra Phob Ref: SPNT 200 Ref: SPNT 300	6.00mm	13.00mm	0°	Biconvex	0.00D to 35.00D (0.5D increment)	Hydrophobic Acrylic
	Supra Phob - BBY Ref: Supra Phob BBY Ref: SPNTY 200 Ref: SPNT 300-PL	6.00mm	13.00mm	0°	Biconvex	0.00D to 31.00D (0.5D increment)	Hydrophobic Yellow Acrylic
	Supra Phob Toric Ref: SP TORIC T3-T6	6.00mm	13.00mm	0° Dual haptic, angulation prevents rotation after implants	Biconvex, Aspheric Toric on anterior surface	Spherical : 0.00D to 31.00D (0.5D increment) Cylinder : 1.50D to 6.00D	Hydrophobic Yellow Acrylic
	Supra Phob Rezen Ref: SPMFDY 200	6.00mm	13.00mm	0°	Biconvex, with diffractive anterior surface	0.00D to 35.00D (0.5D increment) Additional Power 3.50D	Hydrophobic Yellow Acrylic
	Supra Phob Infocus Ref: SP INFO	6.00mm	13.00mm	0°	Biconvex, with Extended depth of focus	0.00D to 30.00D (0.5D increment)	Hydrophobic Yellow Acrylic







Note: Supraphob Infocus lens is supplied Non Preloaded Delivery system.

HYDROPHILIC FOLDABLE INTRAOCULAR LENS


	Brand & Model	Optic Diameter	Overall Length	Haptic Angulation	Optic Design	Diopter Range	Positioning Holes
	Acryfold Ref: 502	6.00mm	12.50mm	0°	Biconvex	-1.00D to 10.00D (1D increment), 0.00D to 35.00D (0.5D increment)	NIL
	Acryfold Ref: 601	6.00mm	12.50mm	0°	Biconvex	-1.00D to 10.00D (1D increment), 0.00D to 35.00D (0.5D increment)	NIL
	Acryfold Ref: 701	6.00mm	11.00mm	0°	Biconvex	0.00D to 31.00D (0.5D increment)	NIL
	nAspro Ref: NAS 207	6.00mm	12.50mm	0°	Biconvex	0.00D to 35.00D (0.5D increment)	NIL
	nAspro BBY Ref: NASY 207	6.00mm	12.50mm	0°	Biconvex	0.00D to 31.00D (0.5D increment)	NIL
	Multi Diff Ref: MFD605 Ref: MFDY605	6.00mm	12.50mm	0°	Biconvex with Multifocal diffractive	0.00D to 31.00D (0.5D increment)	NIL
	RIL	4.50mm - 5.75mm	11.50mm - 14.00mm	0°	Biconvex Refractive implantable lens	-24.00D to +24.00D in steps of 0.5D	2

PMMA

Since 1949 Intraocular lenses have been made of PMMA, due to its lightness, clarity and stability. Even today, PMMA is the material of choice. PMMA offers outstanding stability and optical quality for a predictable outcome and maximum performance. Millions of eyes have been implanted with our basic and premium range of PMMA lenses with excellent outcome. Thanks to the inherent quality of the material.

	Brand & Model	CHAMBER	OPTICAL DIAMETER	OVERALL LENGTH	POSITIONING HOLES	OPTIC DESIGN	A CONSTANT	ANGULATION	SQUARE EDGE
	APPALENS : 207	POSTERIOR	6.00 mm	12.50 mm	2	BICONVEX	118.2	10°	NO
	LIBERTY LENS : 207 L	POSTERIOR	6.00 mm	12.50 mm	2	BICONVEX	118.2	10°	NO
	LIBERTY LENS : 302 L	ANTERIOR	6.00 mm	12.50 mm	NIL	BICONVEX	115.3	10°	NO
	APPALENS PLUS : SQ 207	POSTERIOR	6.00 mm	12.50 mm	2	BICONVEX	118.2	10°	YES
	SWISS LENS : SQ 60125	POSTERIOR	6.00 mm	12.50 mm	2	BICONVEX	118.2	10°	YES
	LIBERTY LENS : 220 L	SULCUS	7.00 mm	13.50 mm	2	BICONVEX	118.9	10°	NO

IRIS CLAW LENS

	ICA 5585	POSTERIOR / ANTERIOR	5.00 mm	8.50 mm	2	BICONVEX	117.0 / 115.0	10°	NO
--	----------	----------------------	---------	---------	---	----------	---------------	-----	----

APPA AUTO PERIMETER

MODEL : AP 901 CTS GLAUFIELD LITE

Technical Specifications

Stimulus Characteristics

Stimulus Size	: Goldman III Size
Method of Presentation	: Rear Projection LED Static Perimeter
Luminance Range	: 0.01 to 1000 Apostilbs (50 to 10db)
Number of Stimuli	: 133
Colour	: Green
Duration	: 0.2 to 5.0 sec in 0.2 sec increment
Interval	: 0.3 to 4.9 sec in 0.2 sec increment

Strategies

Screening	: Fixed, 3 Zone & Contour Screening
Threshold	: Full & Fast Threshold

Fixation Monitors

Electro-optical Monitoring	: Video monitor
Heijl krakau Fixation control	: Blind spot method
Mosaic Attention Monitor	: Sensor method

Stimulator Screen

Visual Field Testing Distance	: 30 cm
Background Luminance	: 31.5 Apostilbs
Chinrest Movement	: Dual Chinrest (Up / Down Movement)
Operator Interface	: Touch Screen, Key Board and Mouse
Printer	: Laser Printer (Supports All Kinds of USB Printers)
Analysis Software	: Field Explorer 4.0

Patterns

Central Field	: 5 Patterns
Full Field	: 6 Patterns

Measuring accuracy range

Mean Deviation(MD)	: MD = 0 means Normal, 0 < MD ≥ -4 means Early stage -4 < MD ≥ -7 means Moderate, MD < -7 means Severe
Pattern standard deviation(PSD)	: PSD ≤ 2 means Normal (or) Generalized defect. PSD < 2 means Abnormal (or) Localized defect.

Characteristics

Dimension in mm	: 590(H) x 545(W) x 520(D)
Weight	: 41 Kg
Power Supply	: 110 V - 230 V AC, 50/60 Hz



APPA AUTO PERIMETER

MODEL : AP901 CTS - GLAUFIELD LITE SWAP

Technical Specifications

Stimulus Size	: Goldman III Size
Method of Presentation	: Rear Projection LED Static Perimeter
Luminance Range	: 0.01 to 1000 Apostilbs (50 to 10db)
Number of Stimuli	: 133
Colour	: Green & Blue
Duration	: 0.2 to 5.0 sec in 0.2 sec increment
Interval	: 0.3 to 4.9 sec in 0.2 sec increment

Strategies

Screening	: Fixed, 3 Zone & Contour Screening
Threshold	: Full & Fast Threshold

Fixation Monitors

Electro-optical Monitoring	: Video monitor
Heijl krakau Fixation control	: Blind spot method
Mosaic Attention Monitor	: Sensor method

Stimulator Screen

Visual Field Testing Distance	: 30 cm
Background Luminance	: 31.5 Apostilbs
Chinrest Movement	: Dual Chinrest (Up / Down Movement)
Operator Interface	: Touch Screen, Key Board and Mouse
Printer	: Laser Printer (Supports All Kinds of USB Printers)
Analysis Software	: Field Explorer 4.0

Patterns

Central Field	: 5 Patterns
Full Field	: 6 Patterns

Measuring accuracy range

Mean Deviation(MD)	: MD = 0 means Normal, 0 < MD ≥ -4 means Early stage -4 < MD ≥ -7 means Moderate, MD < -7 means Severe
Pattern standard deviation(PSD)	: PSD ≤ 2 means Normal (or) Generalized defect. PSD < 2 means Abnormal (or) Localized defect.

Characteristics

Dimension in mm	: 650(H) x 480(W) x 500(D)
Weight	: 31 Kg
Power Supply	: 110 V - 230 V AC, 50/60 Hz



YAG & SLT COMBO

MODEL : 507

Technical Specifications

MODELS

Lasers	Nd:YAG
Laser wavelength	1064nm
Mode	Super Gaussian
Cone angle	16°
Mode of operation	Q-Switched [Cr4+]
Min. laser energy	Single pulse 0.5mJ - 10mJ
Max. laser energy	Double pulse 24mJ Triple pulse 35mJ
Pulse Width	< 4 ns
Optical breakdown	Typically 2.5mJ in air
Focus diameter(Spot size)	10µm
Focus shift	± 500µm (Posterior - 0, 125, 250, 375, 500 Anterior - 0, 125, 250, 375, 500)
Pulse repetition frequency	2.5 Hz
Aiming beam	Dual Beam Method (4 Beam optional) Laser diode 635nm Power 5mW (Continuous Variable)

Cooling

Ambient Air

Slit Lamp - Common Specification for YAG & SLT Laser

Magnification	: 3 step / 5 step
Focus distance	: 100mm (140mm Optional)
Interpupillary distance	: 50mm to 78mm
Dioptre	: +8D to -8D
Eye pieces	: 12.5x (10x, 15x Optional)
Illumination	: 12V - 30W Halogen / 3.4V - 700mAh LED
Slit adjustment	: 0-14mm
Slit length	: Ø14.0mm, 10.0mm, 8.0mm, 5.0mm, 3.0mm, 2.0mm, 1.0mm
Slit rotation	: 0°-180°
Filters	: Heat absorbing, Cobalt Blue and Red free green
Power supply	: 110 - 230V, 50 - 60Hz
Dimension	: 86 cm x 52 cm x 51 cm
Weight	: Approx 30kg

Standard accessories

- Dust cover (1) • Allen key (1set) • Spare bulb (1) • Chinrest paper (1 Pkt) • Power chord (1) • Head band (1)
- Installation & Surgery DVD (1) • Screws (1set)

Optional accessories

- : Capsulotomy lens • Iridectomy lens • SLT Lens

SLT LASER

Lasers	Nd:YAG
Laser wavelength	532nm
Mode	Frequency doubled
Cone angle	16°
Mode of operation	Q-Switched [Cr4+]
Min. laser energy	0.2mJ - 3.0mJ (Single pulse)
Max. laser energy	NA
Pulse Width	< 4 ns
Optical breakdown	NA
Focus diameter(Spot size)	400µm
Focus shift	NA
Pulse repetition frequency	2.5 Hz
Aiming beam	Single Beam Laser diode 635nm Power 5mW (Continuous Variable)
Cooling	Ambient Air



APPA YAG LASER

MODEL : 307

Technical Specifications

Lasers	: Nd:YAG
Laser wavelength	: 1064nm
Mode	: Super Gaussian
Cone angle	: 16°
Mode of operation	: Q-Switched [Cr4+]
Min. laser energy	: 0.2mJ - 10 mJ (Single pulse)
Max. laser energy	: Single pulse 10mJ Double pulse 24mJ Triple pulse 35mJ
Energy Levels	: More than 25 Steps
Pulse Interval	: < 4 ns
Optical breakdown	: Typically 2.5mJ in air
Focus diameter(Spot size)	: 10µm
Focus shift	: ± 500µm (Posterior - 0, 150, 250, 375, 500 Anterior - 0, 150, 250, 375, 500)
Pulse length	: < 4ns (type 2 - 3ns)
Pulse repetition frequency	: 2.5 Hz
Aiming beam	: Four Beam Method Laser diode 635nm Power 5mW (Continuous Variable)
Cooling	: Ambient Air

Slit Lamp Specifications

Magnification	: 3 step / 5 step
Focus distance	: 140mm (100mm Optional)
Interpupillary distance	: 50mm to 78mm
Dioptre	: +8D to -8D
Eye pieces	: 10X (12.5X, 15X Optional)
Illumination	: 12V - 30W Halogen / 3.4V - 700mAh LED
Slit adjustment	: 0-14mm
Slit length	: Ø14.0, 10.0, 8.0, 5.0, 3.0, 2.0, 1.0 mm
Slit rotation	: 0°-180°
Filters	: Heat absorbing, Cobalt Blue and Red free green
Power supply	: 110 - 230V, 50 - 60Hz
Dimension	: 86 cm x 52 cm x 51 cm
Weight	: Approx 30kg

Standard accessories

- Dust cover (1) • Allen key (1set) • Spare bulb (1) • Chinrest paper (1 Pkt)
- Power chord (1) • Head band (1) • Installation & Surgery DVD (1) • Screws (1set)

- Optional accessories : • Capsulotomy lens • Iridectomy lens



SINGLE SPOT GREEN LASER 532 nm

MODEL : AMOGH SMART

Features

- Light weight and portable
- Electronic micro manipulator on the joystick ensures ultimate controlled safety
- Touch screen interface
- Coaxial system of laser aiming beam along with illumination gives comfortable treatment

Specifications INTEGRATED LASER SLIT LAMP

LASER CONSOLE

Treatment Laser	: Diode pumped, frequency doubled, true cw, solid state
Laser Module Capacity	: 3 Watts
Aiming Beam	: 635 nm, Semiconductor diode laser, 0 to 1 mW (variable)
Display	: LCD touch screen
Lifetime	: 10,000 working hours
Dimensions	: 290(H) x 175(W) x 365(D) mm

Integrated Laser Slit Lamp(Standard Delivery System)

Laser Spot Diameter	: Adjustable spot size from 50 - 1000 μ
Laser Beam Delivery	: Coaxial delivery with slit illumination

Laser Indirect Ophthalmoscope (Optional Delivery System)

LIO Illumination	: LED White light, 3.3 V, 1 Watt
Standard Spot Size	: 200 μ on the retina
Standard Working Distance	: 350 mm

ENDO Probes (Optional Delivery System)

Available in 20G, 23G, 25G & 27G



MULTISPOT GREEN LASER 532 nm

MODEL : JERICHO

Features

- High speed galvanometers enhances rapid pattern delivery
- Extremely fast treatment
- Shorter laser sessions (compared to classic treatments)
- Variable focus option for LIO is an added advantage
- Coaxial system of laser aiming beam along with illumination gives comfortable treatment
- Patterns in the form of Squares, Lines & Circles

Specifications

LASER CONSOLE

Treatment Laser	: Diode pumped, frequency doubled, true cw, solid state		
Laser Module Capacity	: 3 Watts		
Aiming Beam	: 635 nm, Semiconductor diode laser, 0 to 1 mW (variable)		
Lifetime	: 10,000 working hours		
Dimensions	: 290(H) x 180(W) x 365(D) mm		
Power Adjustment	: Variable from 10 to 1500 mW	For Single Spot	For Patterns
Spot Size	: 50 to 400 μ	Variable from 50 to 1500 mW	Variable from 50 to 1500 mW
Pulse Duration	: 10 ms - 10 sec	100 to 400 μ	100 to 400 μ
Pulse Interval	: 10 ms - 10 sec	10 - 50 ms	10 - 50 ms
Operation Mode	: Repeat pulse, single pulse & continuous mode	-	-
Spacing	: -	Single pulse	Single pulse
			100 to 500 μ

Integrated Laser Slit Lamp(Standard Delivery System)

Micro Manipulator	: Electronic micro manipulator in the joystick
Working Distance	: 120 mm
Laser beam delivery	: Coaxial delivery with Slit Illumination

Laser Indirect Ophthalmoscope (Optional Delivery System)

LIO Illumination	: LED White light, 3.3 V, 1 Watt
Standard Spot Size	: 200 μ on the retina
Standard Working Distance	: 350 mm

ENDO Probes (Optional Delivery System) Available in 20G, 23G, 25G & 27G



AMOGH NANO GREEN LASER 532 nm

MODEL : AMOGH NANO

Technical specification

Treatment laser	: 532nm, Diode Pumped, Frequency doubled, True CW, Solid State.
Wavelength	: 532 nm
Laser module capacity	: 2 Watts, True Continuous Wave
Power Adjustment	: Variable from 10 mW to 1000 mW
Duration	: 10 mS – 10 Sec.
Pulse Interval	: 10 mS – 10 Sec.
Operation Mode	: Repeat Pulse & Single Pulse, Continuous Mode
Display	: LCD touch screen
Aiming beam laser	: 635nm, Semiconductor Diode Laser, 0 to 1mW (Variable)
Laser Delivery System	: Endo Ocular Probes & Laser Indirect Ophthalmoscope
Electrical requirements	: 100/230 VAC, 50/60 Hz, 2A, Single Phase.
Weight	: 7.5 Kg (Without Packing)
Dimensions	: 170(H)x325(W)x350(L)mm
Cooling	: Thermo Electric Cooling & Air cooled.
Treatment Laser Safety	: Class IV



Optional Accessories at extra cost:-

1. Laser Indirect Ophthalmoscope
2. Endo Probes available in 20G, 23G, 25G & 27G

VITRECTOMY

Model : SUPER AAV5

(The most reliable system for intraocular microsurgery)

Features

- For anterior and posterior segment surgeries.
- Vitrectomy lensectomy + irrigation/aspiration system for extra capsular Cataract extraction
- Non-electric, Portable, Foot controlled
- No compressor, No vacuum pump, No battery
- Unit works with non-syphon (no pipe inside) carbon dioxide gas cylinder or nitrous oxide or nitrogen or Mini air compressor to provide powerful cutting action
- Provides variable cutting Speeds of up to 600 cuts / min
- Vacuum can be preset anywhere from 0 - 600 mmHg available in fixed mode to match your needs
- Allows Surgeon to select either cutting mode or suction mode or both together
- Guillotine cutting movement : when off the cutting port remains open thereby minimizing tissue trauma
- Safe and positive use of all important pneumatically driven cutters
- Unique positive shut off valves for instant venting to atmosphere totally eliminates reflux mechanism
- Net weight : 5 kg



CRYO SUPER Model : AA-2

SUPER DELUXE Model : AA-3

Technical Specifications

CRYO MODELS

	SUPER : AA-2	SUPER DELUXE : AA-3
Completely non-electric, portable	Yes	Yes
Gas	N2O	N2O
Foot controlled	Yes	Yes
Instant defrosting	No	Yes
Quick freezing and quick defrosting	Yes	Yes
Probes cleaning	Manually	Automatic

Cryo Probes Technical Details

Probe	Tip diameter	Temperature
Cataract	1.4 mm(17 SWG)	-40°C
Retinal	3.3 mm(10 SWG)	-80°C
Glaucoma	2.4 mm(13 SWG)	-80°C
Intravitreal	1.1 mm (19 SWG)	-20°C

Useful for cataract, retinal detachment, glaucoma and intravitreal surgery

Hammer headed / spatulated probe is available as optional

Net weight : 5 kg



OPTICAL COHERENCE TOMOGRAPHY

MODEL : APPASAMY CIANA

Fundus Camera

Field of View	: 40°
Working Distance	: 22mm
Spectral Wavelength of Illumination	: 740nm
Power at Eye	: 100 µW
Focus Range	: -20 D to +20 D

OCT

Spectral Wavelength of Illumination	: 840 nm
Power at Eye	: 720 µW
Scan Speed	: 80,000 A-Scan Lines per second
Axial Resolution	: 5 microns
Lateral Resolution	: 15 microns
Scan Depth	: 2 mm

Posterior Scans

HD Line Scan	: 12 mm
Radial Scan	: 12 mm
Macula 3D	: 7.5 mm x 7.5 mm
Disc 3D	: 7.5 mm x 7.5 mm
Glaucoma 3D	: 7.5 mm x 7.5 mm
Simple Cross	: 10 mm
Multi Cross	: 10 mm

Anterior Scans

Line Scan	: 8 mm
Radial Scan	: 8 mm
Reports	: For all the Scans



APPA FUNDUS CAMERA FFA

MODEL : AAFFA 01

Retinal Imaging System



Features

- Colour, Redfree and FFA images are obtained by a high resolution Canon Digital Camera
- Auto Focus and Auto Shoot Function is Enabled and Included
- High Sensitivity Canon CMOS Technology Image Sensor (24 mega pixel) For superior Image quality
- User Friendly Alignment and Focus by Split line and Working Distance Dots
- Simple Control Software For Image Acquisition, Processing and Patient Database Storage
- Avoids Patient's Eye Dilation Time Since it Uses Nonmydriatic Technology
- 100% Patient Co-operation Obtained During Image Capture Because of Patient Friendly IR Illuminating Source

Technical specification

Fundus observation	:	IR LED source
Focussing method	:	Split line alignment
Working distance	:	35mm Two bright dots alignment
Image acquisition	:	24 Mega pixel DSLR camera
Fixation target	:	External & Internal both
Field of view	:	45°
Photography method	:	Xenon Flash Tube
Minimum pupil size	:	3.5mm

APPA SYNOPTOPHORE

MODEL : ASP 902

Features

Synoptophore is an excellent diagnostic and therapeutic instrument for Squint or Strabismus angle management. Binocular vision angle of deviation measurement. Synoptophore is made with Auto flashing device, After image test, Haidinger brush.

Slides Details

Yellow slides	: Yellow slides are used for macula, fovea, lazy eye, hidden squint and head ache
Green slides	: Green slides are used for depth of image or 3D effect of the picture
Black slides	: Black slides are used for fusion and its range. It is also used for H.B motor test
Red slides	: Red slides are used for simultaneous prescription (smp) and used to find the degree of squint or angle of deviation also to find the PD value

Specifications

Optional tubes movement	: Horizontal - adduction +50°, Abduction -40° Vertical - hypophoria 30°, hyperphoria 30° Torsional - Incyclophoria 20°, excyclophoria 20°
Auto flashing	: Auto flashing of slide illumination either simultaneously, or alternatively in rapid and variable modes
Haidinger brush	: 12 V illumination lamp and easy motor speed control in both directions.
Slide illumination	: Rheostat controlled 6 V halogen lamp for each side. high intensity 12 V for after image illumination
Chinrest height	: 60 to 130 mm (from eye piece tube)
Pupil adjusting distance	: 45 to 75 mm

Electrical Specifications

Lamp voltage target illumination	: 6.2 V, 0.3A bulbs
After image	: 12 V, 2A bulbs
Transformer	: PRI-AC 0-230V 50Hz, SEC-0-12 V, 14 V 3A
Main supply	: ~110-230 V, 50-60 Hz
Power consumption	: 25 W

Physical Parameters

Physical characteristics	: 390 mm [H] x 530 mm [W] x 310 mm [B]
Weight	: 17 Kg

Standard Accessories

• Slide box (1) • Dust cover (1) • Blue filter (1) • Bulb 6 V (1) • Bulb 12 V (1) • Fuse 2 A (1)

Optional Accessories

: Motorized table



CORNEAL CROSS-LINKING

MODEL : CL-UVR *Rapid*

CL-UVR Rapid is the new cross-Linking machine redefines very fast treatment approach. The Rapid CL-UVR System offer more homogeneous beam and an adjustable energy level to allow very good results.

Features

- User Adjustable Power/Energy setting
- Dual Aiming beam assisted focusing
- Homogenized Radiation System
- Variable beam diameter for different corneal diameters
- Motorized Fine Focus
- Ultra efficient LED cluster system
- Video assisted procedure
- Timer with Pause/Play option
- Higher working distance
- User Programmable memory (U1&U2)
- Rigid Mobile Floor Stand Mount

Technical Specifications

User Interface	: LCD Display
Wavelength	: 365 nm
UV Power	: 0.7 mW/cm ² to 30mW/cm ² (User Programmable)
Working Distance	: 65mm
Spot Size	: 6-11 mm
Timer Adjustable	: (User Programmable)
Dual Aiming beam	: 635nm, 1.0 mw (Adjustable)
Power Requirement	: 110-240V AC,60-50Hz
Net Weight	: 32 Kg
Gross Weight	: 45 Kg

SURGICAL OPERATING MICROSCOPE

MODEL: BRILLIANT SHIFT 230/250 (LED)

Visualization System For Ophthalmic Micro Surgery

Surgical Microscope

Magnification Type	:	5 Step (Manual)
Magnification Type	:	5 Step (Manual)
Magnification	:	0.4x, 0.6x, 1.0x, 1.6x, 2.5x
Binocular	:	45° Inclined Binocular tube
Arm Length	:	800 mm
Net Weight	:	25 Kg
Eye pieces	:	10x Wide Field (Optional 12.5x)
Diopter adjustment	:	From +6 to -6
Inter pupillary distance	:	55mm-75mm
Working distance	:	200mm (optional 175mm)
Fine focusing control	:	Motorized by foot control
Filter	:	UV heat absorbing filter, cobalt blue, yellow
Light source	:	LED Lamp
Arms	:	Counterbalanced spring arms
Model	:	Portable in Aluminium Suitcase

Electrical Specifications

Power supply	:	~110-230V, 50-60Hz
Power consumption	:	50 VA

Standard Accessories

- Sterilizable caps (2set) • Dust cover (1)

Optional Accessories

- Eye pieces wide field 12.5x



SURGICAL OPERATING MICROSCOPE

MODEL: BRILLIANT AAOM 230/250 (LED)

Visualization System For Ophthalmic Micro Surgery

Technical Specification

Surgical Microscope		
Magnification Type	:	5 Step (Manual)
Magnification	:	0.4x, 0.6x, 1.0x, 1.6x, 2.5x
Binocular	:	45° Inclined binocular tube
Arm Length	:	900 mm
Net Weight	:	65 Kg
Eye pieces	:	10x Wide Field (Optional 12.5x)
Diopter adjustment	:	From +6 to -6
Inter pupillary distance	:	55mm-75mm
Working distance	:	200mm (Optional 175mm)
Fine focusing control	:	Motorized by foot control
Filter	:	UV heat absorbing filter, Cobalt blue, Yellow filter
Light source	:	1.2A LED
Arms	:	Counterbalanced spring arms
Stand	:	Brilliant floor stand

Electrical Specifications

Power supply	:	~110-230V, 50-60Hz
Power consumption	:	50 VA

Standard Accessories

- Sterilizable caps (2set) • Dust cover (1)

Optional Accessories

- Eye pieces wide field 12.5x



SURGICAL OPERATING MICROSCOPE

MODEL: AAOM BRILLIANT ADVENT FS-9

Visualization System For Ophthalmic Micro Surgery

Surgical Microscope

Eye piece	: 10x (Optional 12.5x)
Binocular tube	: 90° Tilt-able, F=200mm
Magnification changer	: Manual 5-step (Optional Motorized step magnification)
Magnification	: 0.4x, 0.6x, 1.0x, 1.6x, 2.5x
Objective	: F=225mm (Optional F=200mm)
Focusing	: Motorized focusing

Inbuilt HD Camera

5.0M UHD digital camera capable of streaming high resolution video of 1080p (Full HD) with 60fps.

Illumination

- Bright LED, day light adjustable and integrated 0 Deg stereo coaxial illumination system for constant and superior red reflex
- Yellow, blue and integrated heat filter. Retinal guard manual flip in and out.

X-Y coupling

- Adjustment range - 61 mm x 61 mm
- Push button for initial position of X-Y

Foot-switch

- Ergonomically designed multi-function foot-switch.
- Standard functions – XY Reset & direction control, Focus up/ down, Illumination on/off.
- Optional functions – Illumination increase/decrease, Motorized magnification changer. Illumination increase & Decrease.

Supporting Arms

Counter balanced suspension arm with gas spring mounted.

Horizontal length of arms	- Primary Arm – 500mm & Secondary Arm – 600mm
Vertical height adjustment	- Secondary Arm vertical up & down ±300mm

Stand

Type	: Mobile floor stand on four castor lockable wheels.
Weight	: 110Kg (approx.)

Electrical Specifications

Power supply	: ~110-230V AC, 50-60Hz
Power in VA	: 50 VA
Light source	: LED
Fuse rating	: 2A
Classification	: Class 1 Type B

Standard Accessories

:	Sterilizable caps – 02 Sets, Unit cover - 01, Power Cord
---	--

Optional Accessories

: Sterilizable caps for all drive knobs, C-mount beamsplitter assistant-scope, Retinal viewer with Image Re-inverter, HD/SDI video recorder, Monitor (24 Inches), In-Built Camera (1080p (Full HD) with 60fps.)



SURGICAL OPERATING MICROSCOPE

MODEL: AAOM LEGEND TRUGLOW FS-1

Visualization System For Ophthalmic Micro Surgery

Surgical Microscope

Optics	: Apo-chromatic optics
Eye piece	: 10x Wide Field magnetic (optional 12.5x)
Magnification	: 0.4x to 2.4x with manual & motorized continuous zoom 1:6
Binocular	: 90° tiltable
Working distance	: F=200mm (Optional 225mm)
Field of view	: 9mm to 55mm
Diopter Adjustment	: +6D to -6D

Illumination

- LED light with variable independent oblique and co-axial illumination system
- True glow system-bright homogeneous constant red glow
- Rotatable Filters – Blue, yellow and retinal guard

X-Y coupling

- Working range - 61 mm x 61 mm with foot-switch control
- Push button for home position of x-y and fine focus

Foot-switch

- Multi-function wired foot-switch
- Standard Functions - XY direction, Fine Focus up/down, Zoom up/down, Reset, Illumination On/off
- Optional Functions – Oblique Illumination on/off, Co-axial illumination on/off, Illumination increase & Decrease

Floor Stand

Programmable mobile floor stand on four castor wheels with locks with footswitch swap functions, speed control up-to 5 user settings

Axial length of arms	: Primary arm – 450mm & Secondary arm – 800mm
Vertical stroke	: Secondary arm ±340mm
Arm rotation	: Primary arm – 360° & Secondary arm – 300°
Base	: 600mm x 650mm
Weight	: 160 kg (approx.)

Electrical Specifications

Power supply	: ~110-230V AC, 50-60Hz
Power in VA	: 50 VA
Light source	: Dual LED
Fuse rating	: 2A
Classification	: Class 1 Type B

Standard Accessories

: Sterilizable caps – 02 Sets, Unit cover - 01, Power Cord
Optional Accessories : Eye piece 12.5x, C-mount beamsplitter assistant-scope, HD/SDI Video recorder, Retinal viewer with Image re-inverter, Monitor, Beam Splitter, C - mount & Camera (1080p (Full HD) with 60fps.), Integrated Assistance-scope Head Assembly.



RET-VIEW

Wide Angle Observation Systems



Retinal Viewer

- User friendly compact design with flip In / Out
- Apochromatic optics
- Clear fundus view through manual focusing
- Easily plugable 90D, 120D super field lenses
- Compatible with other microscopes



Re-Inverter

- Single optical element for image inversion
- Flip In / Out Knob

MICRO SURGICAL BIPOLAR COAGULATOR

MODEL : ACC 001

Wide selection of bipolar forceps and hemostatic erasers to facilitate most ophthalmic surgical procedures

Technical Specifications

Output RF power	: 5W (max)
Output power indicator	: Green LED
Display	: 7-segment LED display
O/P level	: 0 to 9 positions
Input supply	: ~110-230 V, 50-60 Hz
Fuse	: 1A Slow Blow
Power consumption	: 25 W (max)

Physical Parameters

Dimension	: 190 (L) x 170 (B) x 90 (H) mm
Weight	: Net 2 Kg and gross 3 Kg

Standard Accessories

- Silicone bipolar cord [2]
- Standard AA 9100 tenzel bipolar forcep [1]
- Foot switch [1]



LED LIGHT SOURCE

MODEL : AALS-2000

- 2x LED light source offers the professional user the most advanced pure day light
- Maintains constant color temperature

Spot size	: 2 mm
Energy consumption	: 10 watts

Electrical Specifications

External power supply	: ~100 - 230V AC, 50 - 60Hz
Fuse	: 2 A Slow blow
LED Bulb power	: 2 Watts
Intensity varies from	: 0 - 100%
Safe Light	: No toxic UV/IR wavelights
Bulb Life	: 10,000 Hrs

Compatibility

Fittings can be tailored to suit all major makes of light cables like DORC (Option)



- 3x independent fiber outputs Light source with adjustable intensity Suitable also for DORC 20G - 27G light guides & chandeliers

PATIENT UNIT FOR OPHTHALMIC SURGERY

MODEL : AAMOT400

Features

- Operation table position form "Chair" position with the simple click of remote buttons
- Locking wheels prevent any movement during surgery
- Adjustable height useful for surgeon of different height
- Smooth mobility helps to move from operating room for patient shifting & cleaning purpose
- Stable and Smooth castors help patient shifting effortless in case of emergency
- Noiseless motor ensures smooth operation
- The adjustable cushioned head-rest ensures doctor comfort and restraint during operations

Technical Specification

Total length	:	1900mm
Total width	:	590mm
Weight lifting capacity	:	200kgs
Minimum height	:	590mm
Maximum height	:	825mm
Tilting angle	:	175°-185°
Input voltage	:	230v 50/60 Hz (Optional 110V)
Net weight	:	123kg



PATIENT UNIT FOR OPHTHALMIC SURGERY

MODEL : AAOT SS

Features

- AAOT SS 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 Specification

Up & Down Movements

Minimum Height	:	690 mm
Maximum Height	:	920 mm
Stroke Length	:	260 mm
Weight Capacity	:	250 Kg

Bed Tilting

Back Rest Section / Leg Section : 20° / 30°

Electrical Specifications

Motor	:	24 V DC
Power Supply	:	~110-230 V, 50-60Hz (Optional 110V)
Power in VA	:	115 VA

Physical Parameters

Dimension	:	1900 mm (L) x 600 mm (W)
Net Weight	:	120 kg

Standard Accessories

- Foot switch (1) • Power cord (1)



PARAMETERS	DESCRIPTION
Display	: 10.4" Interactive soft touch clear view LCD Display
U/S (Ultrasound)	
Hand Piece	: Light weight 6 Crystal Longitudinal & Transverse (ORBITAL motion)
Frequency	: 28KHz
Phaco Modes	: Continuous, Pulse, Micro pulse, Burst, MBurst, Occlusion micro pulse & Occlusion pulse
U/S Power	: 1 - 100%
Irrigation	
Fluid delivery	: Gravity fed, Continuous / Foot operated
I/V Pole	: Motorized / Manual
Aspiration Modes	
Type	: Peristaltic Pump in (Linear / Non-Linear)
Vacuum Level	: 5 - 650 mmHg in (Linear / Non-Linear)
Flow Rate	: 1 - 50 CC/min (Linear / NON-Linear)
Rise time	: 1, 2 & 3
Diathermy	
Type	: Bipolar, 560 KHz frequency
Power	: 1 - 7W (Max)
Control	: 5 - 100% (Linear / NON-Linear)
Vitrectomy	
Cutter Type	: Pneumatic (Guillotine) Single 60-3000 CPM (Linear / NON-Linear) 20G, 23G & 25G compatible
User Programmable	
User	: 10 Independent user program modes
Operating Modes	: U/S1, U/S2, U/S3, I/A1, I/A2, I/A3, CAPVAC, DIA, VIT
Voice Assistance	: Voice assists for the all modes & functions
Footswitch	: User programmable multifunctional foot pedal for angle & side buttons With reflux mechanism, Different steps sensed by vibrating mechanism
Video Overlay	: Video overlay & recording function enabled in all modes
Dimension	: 420mm (L) X 440mm (B) X 195mm (H)
Weight	: Console 9.5 KG, Accessories - 5Kg
Electrical Specification	
Main power	: 110 - 230V AC
Frequency	: 50 - 60Hz
Current Rating	: 0.6Amps
Power Rating	: 150 VA (MAX)

OPHTHALMIC PHACOEMULSIFIER
Model : GALAXY PRO ORBIT



POSTERIOR VITRECTOMY
OPHTHALMIC PHACOEMULSIFIER
Model : GALAXY TURBO ORBIT



PARAMETERS	DESCRIPTION
Display	: 10.4" Interactive soft touch clear view LCD Display
Vitrectomy	
Cutter Type	: Pneumatic (Guillotine) Single, 60-8040 CPM (Linear / NON-Linear) 23G, 25G, 27G Compatible
Illumination	
Type	: Two independent LED light source
Intensity	: 10 - 100%
Fluid Air Exchange	
Pressure Source	: Air pressure 5 - 100 mmHg
Silicone Oil Control	
Injection Mode Pressure	: 1 to 100 PSI
Extraction Mode Vacuum	: 5 to 650 mmHg
U/S (Ultrasound)	
Fragmentome	: Light weight, Longitudinal hand piece,
Phaco Hand Piece	: Light weight, 6 crystal, Longitudinal & Transverse (ORBITAL motion)
Frequency	: 28 KHz
Phaco Modes	: Continuous, Pulse, Micro Pulse, Burst, MBurst, Occlusion Micro Pulse,
Occlusion Pulse	
U/S Power	: 1 - 100%
Irrigation	
Fluid Delivery	: Gravity fed, Continuous / Foot operated
I/V POLE	: Motorized / Manual
Aspiration Modes	
Type	: Venturi, Pressurized gas or compressor feed
Vacuum Level	: 5 - 650 mmHg in (Linear / Non-Linear)
Diathermy	
Type	: Compatible both Endo & Exo Diathermy
Power	: Bipolar, 560 KHz frequency & 1 - 7W (max)
Control	: 5 - 100% (Linear / NON-Linear)
User Programmable	
User	: 10 Independent user program modes
Operating Modes	: VIT1, VIT2, VIT3, SOI/SOE, FRAG, PHACO1, PHACO2, PHACO3, I/A1, I/A2, CAPVAC, DIA
Voice Assistance	: Voice assists for the all modes & functions
Footswitch	: User Programmable Multifunctional Foot Pedal for Angle & Side Buttons with reflux mechanism, Different steps sensed by vibrating mechanism
Video Overlay	: Video overlay enabled in all modes
Trolley	
Type	: Mobile trolley with motorized & manual IV pole
Dimension	: 20cm (H) x 45cm (B) x 46cm (L)
Weight	: 28kg (Console & Accessories)
Electrical Specification	
Main power	: 110 - 230V AC
Frequency	: 50 - 60Hz
Current Rating	: 0.6 Amps
Power Rating	: 150 VA (max)

PARAMETERS	DESCRIPTION
Display	: 19" Tilttable & Anti-Glare Interactive soft touch clear LCD Display
U/S (Ultrasound)	
Hand Piece	: Light weight 6 Crystal Longitudinal & Transverse (ORBITAL motion)
Frequency	: 28KHz
Phaco Modes	: ORBIT COOL, Continuous, Pulse, Micro Pulse, Burst, MBurst, Occlusion Micro Pulse, Occlusion pulse
U/S Power	: 1 - 100%
Irrigation	
Positive Pressure	: Latest technological innovative Realtime fluidics system for chamber maintenance Automatic and Custom Setting IP Option
I/V Pole	: Motorized IV pole
Aspiration Modes	
Type	: Peristaltic Pump in (Linear / Non-Linear)
Vacuum Level	: 5 - 650 mmHg in (Linear / Non-Linear)
Flow Rate	: 1 - 50 CC/min (Linear / NON-Linear)
Diathermy	
Type	: Bipolar, 560 KHz frequency
Power	: 1 - 7W (Max)
Control	: 5 - 100% (Linear / NON-Linear)
Vitreotomy	
Cutter Type	: Pneumatic (Guillotine) Single 60-3000 CPM (Linear / NON-Linear) 20G, 23G, 25G Compatible. (In-Built Compressor for Anterior Vitrectomy)
User Programmable	
User	: 10 Independent user program modes
Operating Modes	: U/S1, U/S2, U/S3, I/A1, I/A2, I/A3, CAPVAC, DIA, VIT
VFI	: 10-50 PSI
Voice Assistance	: Voice assists for the all modes & functions
Footswitch	: User programmable multifunctional foot pedal for angle & side buttons With reflux mechanism, Different steps sensed by vibrating mechanism
Video Overlay	: Video overlay & recording function enabled in all modes
Dimension	: 180cm (H) x 72.5cm (B) x 55cm (L)
Weight	: Console - 80kg, Accessories - 30kg
Electrical Specification	
Main power	: 110-230V AC
Frequency	: 50-60Hz
Current Rating	: 1Amps
Power Rating	: 250 VA (MAX)

OPHTHALMIC PHACOEMULSIFIER

Model : GALAXY LEO



**POSTERIOR VITRECTOMY
OPHTHALMIC PHACOEMULSIFIER**

Model : GALAXY ROBOT



PARAMETERS	DESCRIPTION
Display	: 19" Tilttable & Anti-Glare Interactive soft touch clear LCD Display.
Vitreotomy	
Cutter Type	: Pneumatic (Guillotine) Single, 60 - 8040 CPM (Linear / NON-Linear) 23G, 25G, 27G Compatible
Illumination	
Type	: Two independent LED light source
Intensity	: 10 - 100%
Fluid Air Exchange	
Pressure Source	: Air pressure 5 - 100 mmHg
Silicone Oil Control	
Injection Mode Pressure	: 1 to 100 PSI
Extraction Mode Vacuum	: 5 to 650 mmHg
U/S (Ultrasound)	
Fragmentome	: Light weight, Longitudinal hand piece
Phaco Hand Piece	: Light weight, 6 crystal, Longitudinal & Transverse (ORBITAL motion)
Frequency	: 28 KHz
Phaco Modes	: ORBIT COOL, Continuous, Pulse, Micro Pulse, Burst, MBurst, Occlusion Micro Pulse, Occlusion Pulse
U/S Power	: 1 - 100%
Irrigation	
Fluid Delivery	: Latest technological innovative Realtime fluidics system for chamber maintenance Automatic and Custom Setting IP Option
I/V Pole	: Motorized IV pole
Aspiration Modes	
Type	: Venturi, Pressurized gas or compressor feed
Vacuum Level	: 5 - 650 mmHg in (Linear / Non-Linear)
Diathermy	
Type	: Compatible both Endo & Exo Diathermy
Power	: Bipolar, 560 KHz frequency & 1 - 7W (max)
Control	: 5-100 % (Linear / NON-Linear)
User Programmable	
User	: 10 Independent user program modes
Operating Modes	: VIT1, VIT2, VIT3, SOI/SOE, FRAG, PHACO1, PHACO2, PHACO3, I/A1, I/A2, CAPVAC, DIA
Voice Assistance	: Voice assists for the all modes & functions
Footswitch	: User Programmable Multifunctional Foot Pedal for Angle & Side Buttons With reflux mechanism, Different steps sensed by vibrating mechanism
Video Overlay	: Video overlay enabled in all modes
GREEN LASER	
Treatment laser	: Diode pumped, Frequency doubled, True CW and Solid state
Wave length	: 532nm
Laser module capacity	: 3watts
Aiming Beam	: 635nm, Semiconductor diode laser
Cooling	: Thermo electric cooling (Peltier) + Air cooled
Life time	: 10,000 Working hours.
Treatment laser safety	: Class IV
Dimension	: 180cm (H) x 72.5cm (B) x 55cm (L)
Weight	: Console - 90kg, Accessories - 40kg
Electrical Specification	
Main power	: 110 - 230V AC
Frequency	: 50 - 60Hz
Current Rating	: 1.5 Amps
Power Rating	: 350 VA (max)

**MOTORIZED SURGEON STOOL
(SURGEON UNIT FOR OPHTHALMIC SURGERY)**

Model : AAMST 2000

Dimensions

Length	: 740 mm
Width	: 550 mm
Net Weight	: 32 kg

Movements

Up&down

Minimum Height	: 510 mm
Maximum Height	: 660 mm
Stroke Length	: 150 mm
Weight Capacity	: 250 Kg

Electrical Specification

Power Supply	: AC 110 - 230V 60-50 Hz Fuse 4A Slow Blow
Power	: 115 VA



SURGEON UNIT FOR OPHTHALMIC SURGERY

Model : AAST / AAMST 2001

Manual Surgeon's Chair

Deluxe model pneumatic operating stool with backrest height adjustment.

Dimension

Length	: 600 mm
Width	: 600 mm
Total Height	: 930mm

Specification

Minimum Height	: 570 mm
Maximum Height	: 720 mm
Stroke Length	: 150 mm
Net weight	: 10 Kg



OPHTHALMIC EQUIPMENT STAND

MODEL: APPA OES-01/ ACC 003

Features

- Simple and sleek model
- Smooth and easy to use, very quiet and highly reliable
- One touch up and down positioning with dc motor
- Available with one standard table top high quality solid wood

Technical Specification

Type	: Actuator
Up / Down movement range	: 150 mm (10")
Load lifting capacity	: 100 Kg

Electrical Specifications

Power input	: ~110-230 V, 50-60Hz
Fuse	: 3A slow blow
Power consumption	: 75 Watts (max)
Dimensions of stand	: 600 (L) x 410 (B) x 670 to 820 (H)mm
Dimensions of table top	: 520 (L) x 400 (B) mm
Table top thickness	: 25 mm
Nett Weight	: 27.5 Kg
Gross Weight	: 30 Kg
Optional Accessories	: Two in One table top



LANCE BLADE (For Stab or Side Port Incisions)



AA 560009	15° Straight	0.9mm
AA 560012	15° Straight	1.2mm
AA 560015	15° Straight	1.5mm

TUNNEL BLADE (CRESCENT BLADE)



AA 561021	2.1mm	Angled Bevel up
AA 561026	2.6mm	Angled Bevel up

SLIT BLADE (ENTRY KERATOME)

To make the initial incision into the Anterior Chamber



AA 562022	2.2mm	Angled Bevel up
AA 562026	2.6mm	Angled Bevel up
AA 562027	2.75mm	Angled Bevel up
AA 562028	2.8mm	Angled Bevel up
AA 562030	3.0mm	Angled Bevel up
AA 562032	3.2mm	Angled Bevel up

SLIT ENLARGE BLADE (IOL IMPLANTATION BLADE)

Used to extend the Phaco incision for insertion of an IOL



AA 563050	5.0mm	Angled Bevel up
AA 563052	5.2mm	Angled Bevel up
AA 563055	5.5mm	Angled Bevel up

MVR VITRECTOMY BLADE

Ideal for sideport and pars plana incisions



AA 564019	19 Gauge	1.5mm Wide
AA 564020	20 Gauge	1.2mm Wide
AA 564023	23 Gauge	0.9mm Wide

CO-EVISC 1.4*

Sodium Hyaluronate Ophthalmic Solution

• IOL Implantation • Cataract Surgery • Trabeculectomy • Phacoemulsification Surgery

• High Cohesion • High Pseudoplasticity • High Viscosity

Appavisc-PFS

Hydroxy propyl methyl cellulose 2%

• Cataract Extraction Surgery • Intraocular Lens Implantation • Keratoplasty

• Protects Corneal Endothelium • Reduces Incidence of Complications

Rhex-ID

Trypan Blue 0.8 mg for Intracameral use

Effective Aid in Ophthalmic Surgery

• Sufficient Contrast • Uniform Surface Alignment • Facilitates Identification

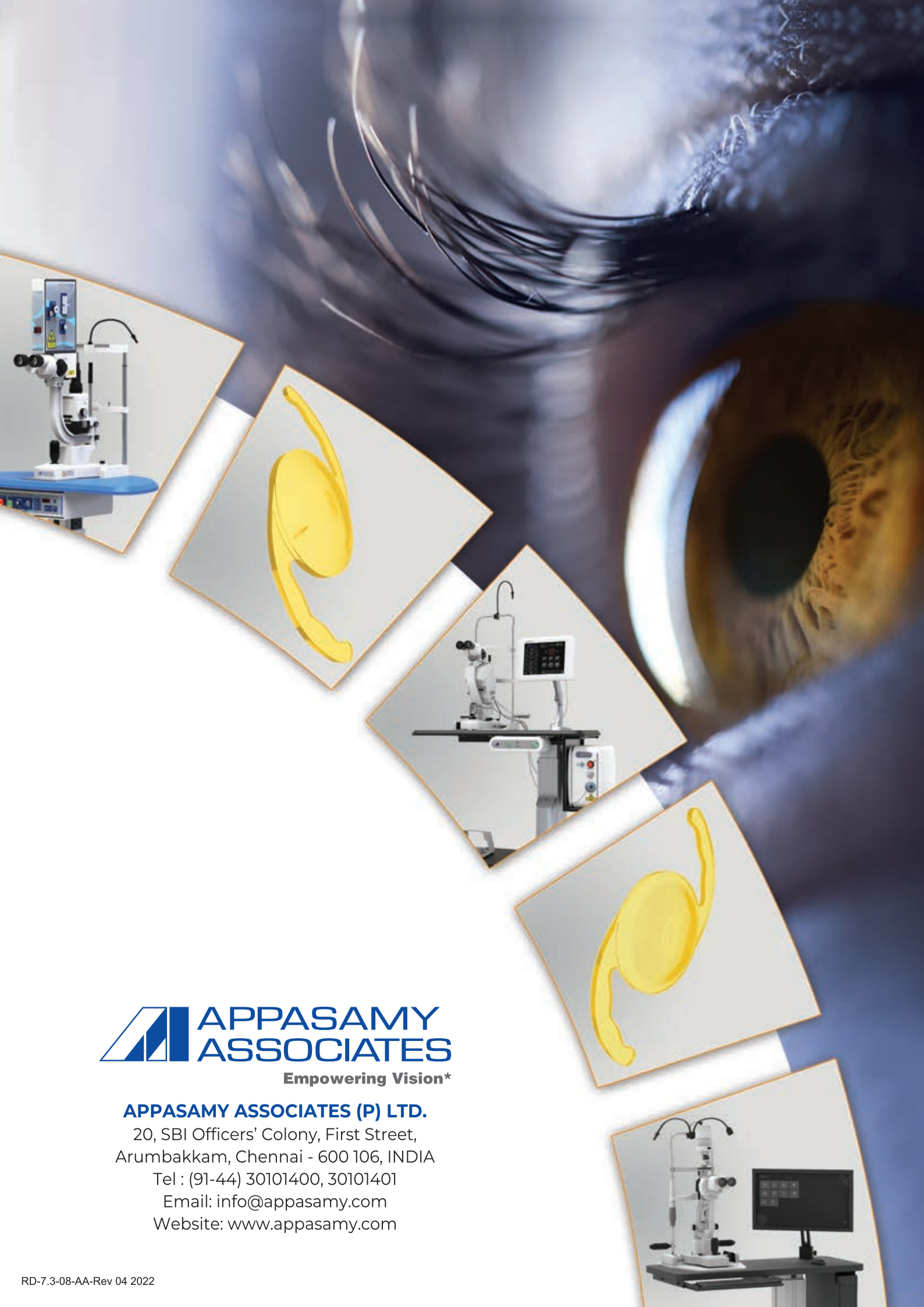
Mio-Chol

Carbachol USP 0.01%w/v

Intraocular Solution

Essential Aid in Glaucoma Cataract Surgery

• Improved Visual Activity • Reduced Intra Ocular Pressure
• Better Intra Surgical Miosis



APPASAMY ASSOCIATES

Empowering Vision*

APPASAMY ASSOCIATES (P) LTD.

20, SBI Officers' Colony, First Street,
Arumbakkam, Chennai - 600 106, INDIA

Tel : (91-44) 30101400, 30101401

Email: info@appasamy.com

Website: www.appasamy.com