



SMR

OPHTHALMIC PVT. LTD.

EQUIPMENT
PRODUCT CATALOGUE

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MADE IN USA

Benefits

- ▶ **Accuracy**
Parallels Laser Interferometry Results.
Acquires 8,192 Data Points per Scan.
- ▶ **E-Z Tip immersion**
- ▶ **Patented technology allowing immersion in sitting position**

PalmScan™ A2000 Tablet

A-Scan + IOL Calculator

- ▶ **Battery Operated**
- ▶ **Portable**
- ▶ **Extremely Accurate**

Features

Immersion and Contact

Advanced technology quickly captures AL, ACD and LT with 1-touch operation in a few seconds.

IOL Calculator

Using 4 modern formulas.

Post-Refractive Correction of Ks

Dense Cataract Penetration

Capable of penetrating the densest cataract lenses.

PalmScan P2000 Tablet

Surgical Pachymeter Device

- ▶ **Battery Operated**
- ▶ **Portable**
- ▶ **Extremely Accurate**

Essentials

Highest Frequency Probe at **50 Mhz**

Features

Highest Accuracy

PalmScan's 264MHz sampling frequency minimize errors thus providing the most accurate results.

Automatic IOP Adjustment

17 Location Corneal Mapping



MADE IN USA

Benefits

- ▶ **Dry-Bed**
Measures corneal bed post-Lasik cut.



MADE IN USA

PalmScan™ Mobile USB B-Scan

MMD's Portable and Versatile
Ultrasound Imaging

Turn any PC* with a USB port into
a high resolution B-Scan

Features

High Resolution Imaging
2048 samples per line

Dual Calipers
Easily measure structures within the eye.

Pulse Frequency 12/15 Mhz
3-10 cm penetration depth.

A-Mode Display
Vector selection tools and
A mode display

Benefits

- ▶ Handheld & Mobile
- ▶ USB Powered
- ▶ Extremely Convenient

PalmScan K2000 Keratometer

USB Auto Keratometer Direct View

Features

- Direct View of Cornea
- Fast Measurements
- 16 Point Keratometry
- Built-in Fixation Light
- Extremely light hand piece - weighs only 16 ounces

Benefits

- ▶ Operating Room ready
- ▶ Pediatrics friendly
- ▶ Astigmatic Measurements - providing Steep and Flat axis
- ▶ Adjustable Keratometric Index



MADE IN USA



PalmScan™ VF 2000

Visual Field Analyzer

Truly Portable, Wearable Virtual
Reality Perimetry

Benefits

- ▶ Highly sensitive, reliable and reproducible results
- ▶ Can be used in almost any settings
- ▶ Can be used for pediatrics patients
- ▶ Can be used for & disabled patients
- ▶ Screening patients in nursing home
- ▶ Patient Comfort – can be used with patient in any position/orientation
- ▶ No dark room required

Features

- ▶ 25+ perimetry tests
- ▶ Fast measurements
- ▶ 70 degrees Field of view testing (+/- 35 degrees)
- ▶ 6 diopters of optical adjustment built in
- ▶ Screening tests
- ▶ Ptosis tests
- ▶ Neurological tests
- ▶ Patient database and archiving
- ▶ Fixation light with Gaze Monitoring
- ▶ Ability to test one eye at a time
- ▶ PDF Print & EMR
- ▶ Wi-Fi and Bluetooth enabled
- ▶ Light weight – 270 grams

US FDA APPROVED



MADE IN USA



PalmScan

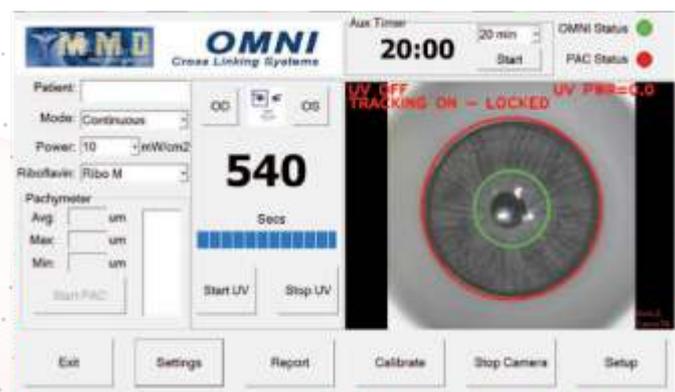
OMNI Corneal Cross Linking System



MADE IN USA

Features

- ▶ Variable settings from 3 mW to 45 mW with simultaneous radiation time adjustment
- ▶ Continuous, pulsed and LASIK radiation mode
- ▶ Portable
- ▶ Self calibrating and self adjusting
- ▶ Eye tracking
- ▶ Integrated pachymeter optional & masking
- ▶ Inbuilt power meter



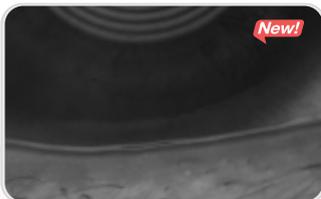
SLM-6E Dry Eye Diagnosis

Elegance dry eye analyzer

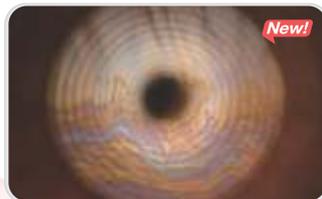
First dry eye analyzer which was designed
Base on digital slit lamp in the world



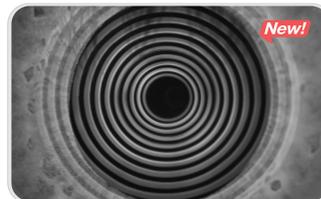
Comprehensive Detection Of Ocular Surface Microenvironment



Measure The Tear Meniscus Height (TMH)



Analysis The Lipid Layer



Measure The Tear Film Break-up Time (TBUT)



Analysis The Meibomian Glands

thermaeye®
PLUS

Advanced IPL Technology for Dry Eye Treatment



Fractionated pulse: security guarantee

Each pulse of ThermaeyePlus can be divided up into three pulses. These fractionated pulses allow the use of higher energy fluences during treatment while providing better protection of the treated skin

Reduced risk of thermal damage

The advanced integrated skin cooling system of the ThermaeyePlus handpiece prevents excessive temperature increases to the epidermis.

Incorporated Power meter

ThermaeyePlus features a control tool that continually monitors the number of pulses emitted, the real effectiveness of every individual pulse and the correct operation of the handpiece. which assures the operator of the efficiency and accuracy of energy emitted during treatment.

Multiple Filters

ThermaeyePlus is equipped with 6 interchangeable filters. These filters are quickly and easily changed by the user who can select the appropriate wavelength that best adapts to the application and pathology of the patient.

Works On All Skin Types

The choices of filters in combination with the pulsed technology, ensures more significant absorption of light by melanin, allowing for the safe treatment of MGD and other pathologies over a higher number of skin types as defined by the Fitzpatrick scale.

Indirect Ophthalmoscope

NEITZ pursues Comfort and Flexibility.

- ▶ **Neitz LED** light source reproduces clean illumination in halogen bulb colour and eliminates the filament shadow.
- ▶ **LED** light source provides steady illumination for 50,000 hours, free from exchange the light bulb.
- ▶ The combination of the LED and the powerful re-chargeable battery allows 10 hours continuous lighting (at middle intensity).

Specifications

Pupillary Distance: 54mm to 74mm
Illumination Area : \$19mm, \$50mm,
\$80mm (at the distance of 500mm)

Filters: UV, Blue, Red-Free
Light Source: 3W White LED
Dimensions: 164 x 111.5 x 58 mm
(excluding headband)
Weight: 480g

IO-α LED



Everything is for Your Best Performance.

- ▶ The highly sensitive FHD camera system equipped with the latest CMOS image sensor provides clear and high-definition images while reducing image degradation.
- ▶ Suitable for observation of pediatric fundus with retinal diseases such as a retinopathy of prematurity.
- ▶ The original Neitz capture software maximises the usability in displaying and saving the fundus images.

IO-α LED CAMERA



Specifications

Pupillary Distance: 54mm to 74mm
Illumination Area: 19mm, \$50mm,
\$80mm(at the distance of 500mm)

Filters: UV, Blue, Red-Free
Light Source: 3W White LED
Dimensions: Approx. 164 x 116.5 x 102.5mm
(excluding headband)
Weight: 730g

Streak Retinoscope RX series



Streak Retinoscope **RX-3A**

- ▶ To be used with AA cell batteries (2pcs.)
- ▶ Contents:
RX head AA cell battery handle
+ 2D presbyopic lens
- ▶ Bulb:
3V. 1W (L-28)



Streak Retinoscope **RX-RC**

- ▶ Contents:
RX head, re-chargeable battery handle (1pcs.)
+2D presbyopic lens
- ▶ Bulb:
4V, 2.6W(L-27)

Dual Desk Charger **RC-II**

- ▶ Two RC handles can be charged at the same time.

Direct Ophthalmoscope

Halogen Ophthalmoscope
BX α-13A



- ▶ Used with AA cell battery handle.
- ▶ Contents:
 - Halogen Ophthalmoscope BXα head
 - AA cell battery handle.
- ▶ Bulb: Model No. L-30 (3V, 2W)

Halogen Ophthalmoscope
BX α-RC



- ▶ Used with rechargeable battery
- ▶ Brightness is twice as great as the battery operated model.
- ▶ Rechargeable with Dual Desk Charger RC-II
- ▶ Contents:
 - Halogen Ophthalmoscope BXα head
 - Rechargeable battery handle
- ▶ Bulb: Model No. L-29 (4V, 3W)
- ▶ Rechargeable Battery: Model No. 1000RS
Recharger: Dual Desk Charger RC-II (120V or 230V)



1st GENERATION

20D: Most popular lens for general BIO exams

90D: Most popular lens for examination at the slit lamp and great for small pupils

78D: Complements the 90D but with higher magnification for central retinal examination



2nd GENERATION

Pan Retinal 2.2: 22% wider field of view than the 20D

Super Field: 30% wider field of view than the 90D

Super 66: Complements the 90D, but with a higher magnification to use for central retinal examination



3rd GENERATION

Digital Clear Field: Highest resolution diagnostic BIO lens

Digital Wide Field: Ultimate 90D power lens with 40% wider field of view than the 90D

Digital High Mag: The highest magnification and finest resolution lens for detailed central retinal views.

GONIO LENSES



G-4 Gonio (Flanged)



G-4 Gonio



G-6 Gonio



G-3 Gonio

LASER LENSES



HR Wide Field



Super Quad[®] 160



Area Centralis[®]



TransEquator[®]

SURGICAL LENSES



HRX Vit Lens



Mini Quad[®] XL



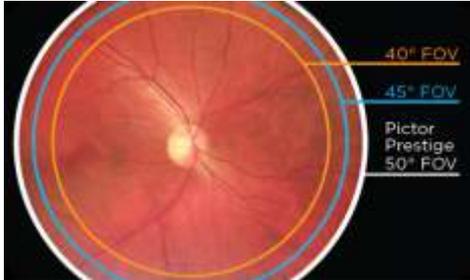
Central Retinal



Super Macula[®]

PICTOR Prestige™

IMAGE ANYONE. ANYWHERE.



VIVA™

BRINGING SIGHT TO LIFE

POSTERIOR POLE VISUALIZATION

- 45° Field-of-View
- 9 fixation Targets for Peripheral Imaging

CAMERA SETTING ADJUSTMENTS FOR ALL PATIENTS

- -15 to +15 Diopter Range
- Manual or Auto Focus
- Brightness Level Adjustment



SMARTPHONE CONNECTIVITY

- Wirelessly transfer images like any other smartphone

NON-MYDRIATIC IMAGING

- Pupil dilation not required (minimum size 3 mm)

POWER FOR A BUSY WORKDAY

- Rechargeable battery lasts 8 hours under normal use

VISTA

V I E W®

Features INSPIRED BY YOU

Just Say the Word!

VOICE ACTIVATED CAPTURE FOR EASY IMAGING

Instantly Generate Reports

FOR BILLING, REFERRALS & EDUCATION

Wide Field of View

FOR UNCOMPROMISED IMAGE QUALITY

Adjustable Illumination Levels

FOR ENHANCED PATIENT COMFORT



MERLIN

SURGICAL SYSTEM

PRECISE ALIGNMENT

for Non-Contact Vitreoretinal Visualization



CLARITY
UNMATCHED BY RIVALS

ALIGNMENT
DELIVERS PRECISION EVERY TIME

COMPACT
DESIGN MAXIMIZES WORKING SPACE

PATIENT SAFETY
INCREASED BY EFFICIENT OPTICAL DESIGN

WIDE ANGLE
ACS® LENS

102°/120° 0.43x 19 mm
FIELD OF VIEW IMAGE MAG LENS DIAMETER

MID-FIELD
ACS® LENS

80°/95° 0.43x 19 mm
FIELD OF VIEW IMAGE MAG LENS DIAMETER

SMALL WIDE ANGLE
ACS® LENS

95°/112° 0.42x 13 mm
FIELD OF VIEW IMAGE MAG LENS DIAMETER

ROLS® ∞ Infinity

The **ROLS** ∞ is our newest reinverter and provides superior image quality with minimal image shift. It is available in manual and powered versions. The powered version works with the Merlin surgical system, engaging automatically when the LPU is pivoted into place. The powered version can also be operated by an available footswitch.



Easily installed on all standard microscopes

LED indicator informs image alignment (direct/indirect)

Removable handles facilitate cleaning and sterilization

Autoclave Class B (22L & 45L)

CLB Series

SAFETY

- ▶ Safe & long lasting chamber manufactured to ASME standards
- ▶ Durable SS 304 chamber
- ▶ Electric interlock for lid lock safety
- ▶ Lid locked when under pressure
- ▶ Electrical safety by MCB
- ▶ Door remains locked until chamber pressure equalizes to room pressure
- ▶ Automatic water quality check – protects the chamber from corrosion
- ▶ Over pressure safety
- ▶ Audio & visual alarms

CONVENIENCE & STERILIZATION INTEGRITY

- ▶ Simple & user friendly LCD control panel
- ▶ Fast & single lever door locking feature
- ▶ Front feet height adjustable
- ▶ 2 water tanks of 4.5L each for fresh water & waste water
- ▶ Bacteria filter

CYCLE RECORDS

- ▶ Easy traceability through USB memory port – view cycle data on PC
- ▶ User password
- ▶ Cycle data print saves you from medico legal cases



AUTOCLAVE – SLEDD SERIES

✓134°C/121°C with drying

EQUITRON ADVANTAGES:

- ▶ Unique single lever lock for lid with single hand opening.
- ▶ Temperature Range up to 134°C for high speed sterilisation.
- ▶ Free steaming for grade heating and deeper penetration of porous loads as well as reducing lag times of media in flasks.
- ▶ Efficient post sterilisation drying.
- ▶ External Bottle for draining water & condensing steam.
- ▶ Microprocessor Based Control ensures repeatability & a high accuracy.
- ▶ Conformance to National & International Standards.



AUTOCLAVE – PAD

Preset Automatic Digital

EQUITRON ADVANTAGES:

- ▶ Preset (at 121°C) Digital temperature indicator cum Controller linked to a preset (20 min) timer.
- ▶ Low water level cut off.
- ▶ End of cycle buzzer.
- ▶ Fitted with a Safety Valve for added safety.
- ▶ Supplied with traceable certificate for Pressure Gauge and Temperature Indicator.



BINOCULAR AUTOREFRACTOR AND SCREENER

since 2001



made in Germany



▶ X Optimal illumination

Plusoptix devices use a unique 54 LED strong flashlight. This optimally illuminates the pupil

▶ X Accurate measurement algorithm

Numerous peer-reviewed clinical studies validate that Plusoptix devices consistently deliver highly accurate refraction recordings.

Plusoptix devices take measurements automatically, when measurement prerequisites (i.e. distance, pupil size and eye alignment) are being met. Measurements are always accurate. There is no need to repeat it.

▶ X High-resolution camera

The quality of a Plusoptix photo is not limited to simply derive refractive recordings. It enables an experienced user to identify media opacities within the pupil.

Basic features in all devices:

- ▶ Simultaneous measurement of both eyes
- ▶ 1 meter (3.3 feet) working distance $\pm 5\text{cm}$ ($\pm 2\text{in}$)
- ▶ 0.5 second acquisition time
- ▶ Full refraction recording, i.e. sphere, cylinder, and axis
- ▶ Interpupillary distance, and pupil size readings
- ▶ Eye alignment, and asymmetry of gaze assessment



The Revolutionary Training Tool for Cataract Surgery

MADE IN JAPAN

It's not the time we train ourselves with human eyes!!



KITARO DryLab

Learn/teach

Basic Instrumentation
At the Desk at your home or medical office.



KITARO WetLab

Learn/teach Machine
Operation in surgical
simulation

Very Similarly on the
Human Eye.



Smart Learning and Teaching with Dry + Wet Combined KITARO Kits



SMR OPHTHALMIC

 **North and East**

 +91 98670 17429

 **South and West**

 +91 98673 22110 / +91 99307 79197

 sales@smrindia.com

 www.smrindia.com

 209, Linkway Estate, New Link Road, Malad (West), Mumbai 400064 INDIA.

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