

Forus



**3nethra
neo**

Making
pediatric
eye imaging
accessible &
affordable

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The Global Need For Pediatric Imaging

During the course of their intensive neonatal care, nearly 37-54% of preterm babies contract a potentially blinding eye disorder known as Retinopathy of Prematurity (ROP). Unless early intervention is carried out, **7-15% of these babies are at risk of going blind.**



130 m*
babies are
born each year.

**UNICEF*

Approx.
15 m
are born
preterm.

Of these,
>3.5 m
preterm births
are recorded in
India alone.

Further, retinoblastoma is the most frequent neoplasm of the eye, accounting for 3% of all childhood malignancies. Globally, nearly 1 in 15,000 children develop retinoblastoma and 8,600-9,000 children are newly affected each year.**

The need of the hour is an affordable, Wide Field Imaging solution to screen, evaluate, and photo-document pediatric ocular diseases.

***wehope.org*

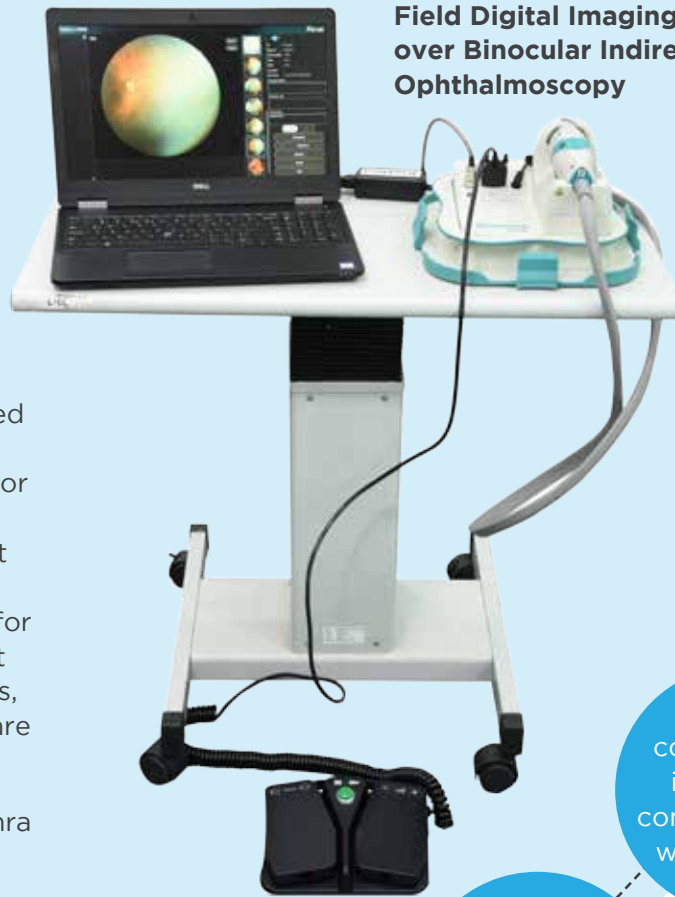
3nethra neo –

Product Description

3nethra neo is an advanced Wide Field Digital Imaging system that assists clinicians in identifying pediatric ocular diseases in newborn infants. The contact device can be easily operated by qualified clinicians and trained technicians to capture color retinal images of infants less than 55 weeks of Post Menstrual Age (PMA). Its ergonomic design allows for convenient deployment at hospitals, operating rooms, and Neonatal Intensive Care Units (NICUs).

Images captured by 3nethra neo are intended only for photo-documentation and do not provide any pathological analysis or diagnosis for treatment.

Advantages of Wide Field Digital Imaging over Binocular Indirect Ophthalmoscopy



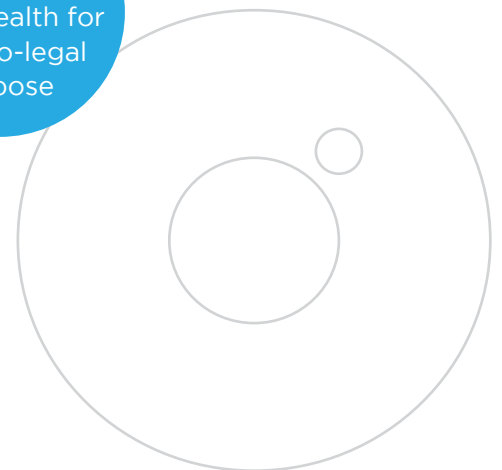
Delivers objective evidence to support clinicians' findings

Enables remote and offline image review

Enhances consultation, improving communication with parents

Documents photos of visual health for medico-legal purpose

Provides historical data as reference to evaluate disease progress



Innovation In Design



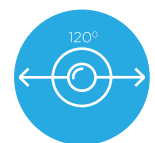
Unique built-in compact warm white LED-based illumination system



Innovative focusing system that enables noiseless operation



Complex and compact optomechanics to make the probe lightweight



Wide Field Imaging at 120°

The Future Of Pediatric Eye Imaging

A digital imaging system with interfacing capabilities, 3nethra neo is specifically engineered to make pediatric imaging accessible to anyone, anywhere. The specific features of the device are designed for clinical convenience and excellence.

Salient Features

The Pen Holder Grasp - our ergonomically designed lightweight hand piece allows for single-handed operation



Portable:

Encased in a durable trolley-suitcase, allowing easy transportation



Compact:

Functional and lightweight for quick, easy maneuvering



Easy-to-use:

Intuitive controls and workflow for easy operation



Digital Photo-documentation:

Acquires, stores, displays, and transmits digital images for clinical consultation. This is essential for education and defensible medico-legal documentation



NeoCare:

Cloud-based platform for secure electronic uploading of high-resolution digital images by operators and remote review by qualified clinicians

NeoCare availability is subject to local regulatory requirements/infrastructure and therefore varies by country

Improving Performance, Impacting Lives

3nethra neo's affordable price, compact design, and cutting edge technology offers unprecedented logistical and economic benefits to users.

Enhanced scope of work:

Greater affordability presents innovative business models for hospitals/clinics, potentially increasing number of patients

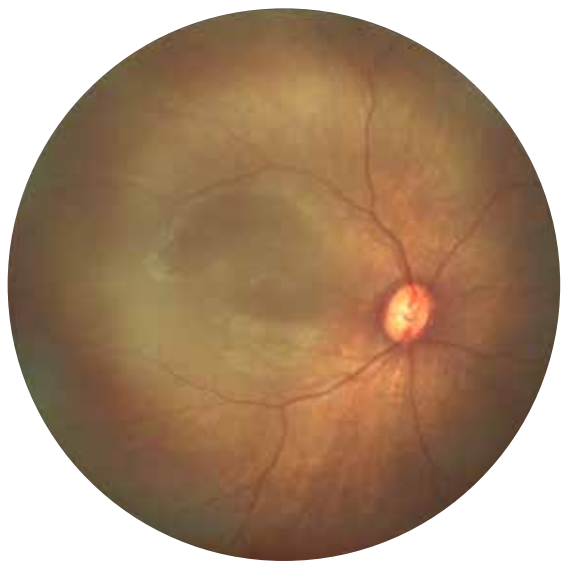
Efficient space allocation:

Improved portability and compact design creates opportunities for mobile screening, enabling wider reach

Optimum human resource

utilization: Intuitive controls allows operation by technicians, who can work with specialists conducting review remotely

Wide Field Retinal Images Of Newborn Infants



Product Specifications

Field of View	120° (from the center of the eye)
Working distance	Contact (via contact gel)
Operating mode	Single-handed operation - Pen Holder Grasp or Fist Grasp
Imaging	Stills and videos
Minimum pupil diameter	4.0 mm
Focusing method	Manual control via foot-pedal
Interface	Universal Serial Bus 3.0
Light source for imaging	Warm white LED with intensity control via foot-pedal
Camera resolution	2040 x 2040 - 24 bit colors
Image sensor	4 Megapixel CMOS
Power supply	AC 100-240 V, 50/60 Hz (for DC power adapter 5V/4A)
Power consumption	5-10 watts
Probe weight	340 gm
Device with suitcase Dimensions / Weight	43 cm (L) x 65 cm (W) x 30 cm (H) / 10 kg
Operating environment	<ul style="list-style-type: none"> • Temperature: 22-26 °C • Humidity: 30-70% • Atmospheric pressure: 70-106 kPa • Altitude: 0-2000 m
Software features	<ul style="list-style-type: none"> • Patient Records Management • Image Enhancement • Image Comparison • Live Spot Magnification • Report Generation • DICOM export
PC/laptop requirement	<ul style="list-style-type: none"> • Intel i5 or better • 8 GB RAM or more • 500 GB HD or more • Dedicated graphics card with 2 GB memory or more • USB 3.0 • 1920 x 1080 resolution • 1.2 Mbps or faster internet connectivity. • The computer must conform to IEC 60950 Ed 2.0 or equivalent standard.
Operating System	Windows 10 (64 - bit)

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