



ellex

eye prime™

The next generation
ultrasound solution

**Introducing Six-Ring Pulsed Array
Annular Technology from Ellex**

Helping the world see clearly

Eye Prime™ — the next generation in ophthalmic ultrasound resolution

Ultrasonography plays a critically important diagnostic role in ophthalmology — and now, with Eye Prime™ from Ellex, you can achieve even more.

Eye Prime™ is breakthrough technology that transforms your view of even the finest ocular structures, enabling you to view, diagnose and treat more accurately and more efficiently than ever before.

Six-Ring Phased Array Annular Technology

Eye Prime™ features proprietary Phased Array Annular Technology that transmits and receives ultrasound waves from six concentric transducers, which can be individually pulsed. The transmitted beam from each transducer can be focused through a wide range of depths in 1mm increments and thereby enables you to focus anywhere in the posterior segment — and beyond.*

New levels of flexibility

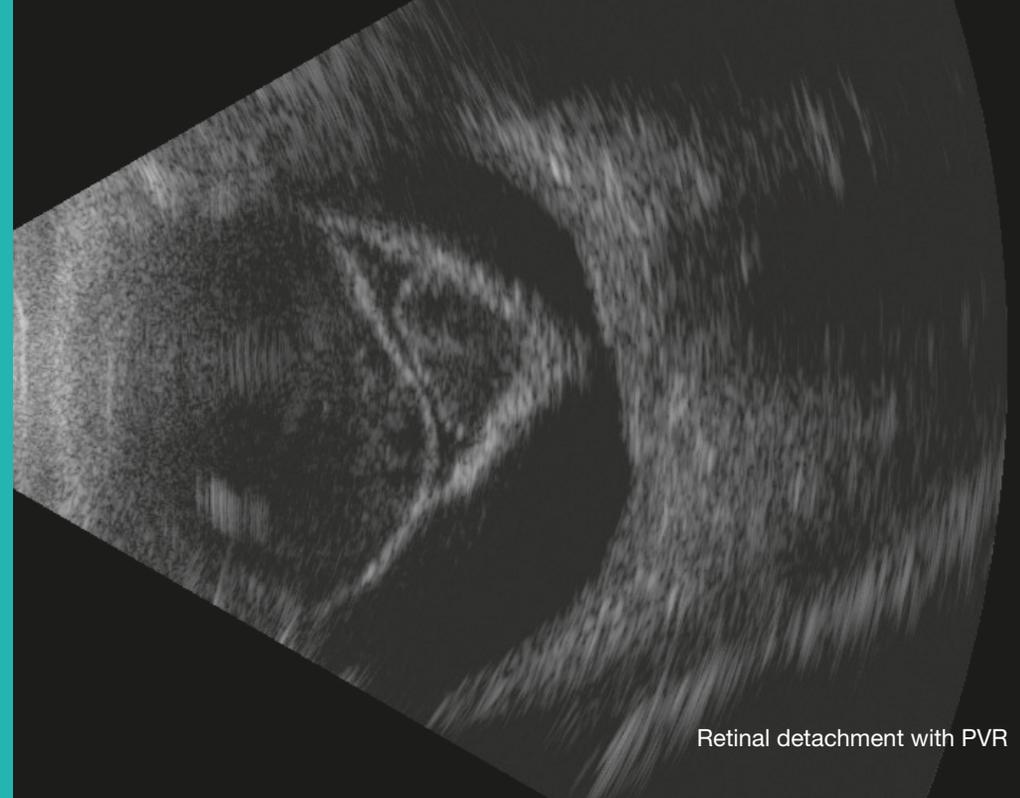
Eye Prime™ refocuses the beam transmission at a wide range of depths, optimizing resolution at each pixel and extending the depth-of-field at each focal point to deliver real-time, dynamic imaging.

Agile Focus™ for image optimization

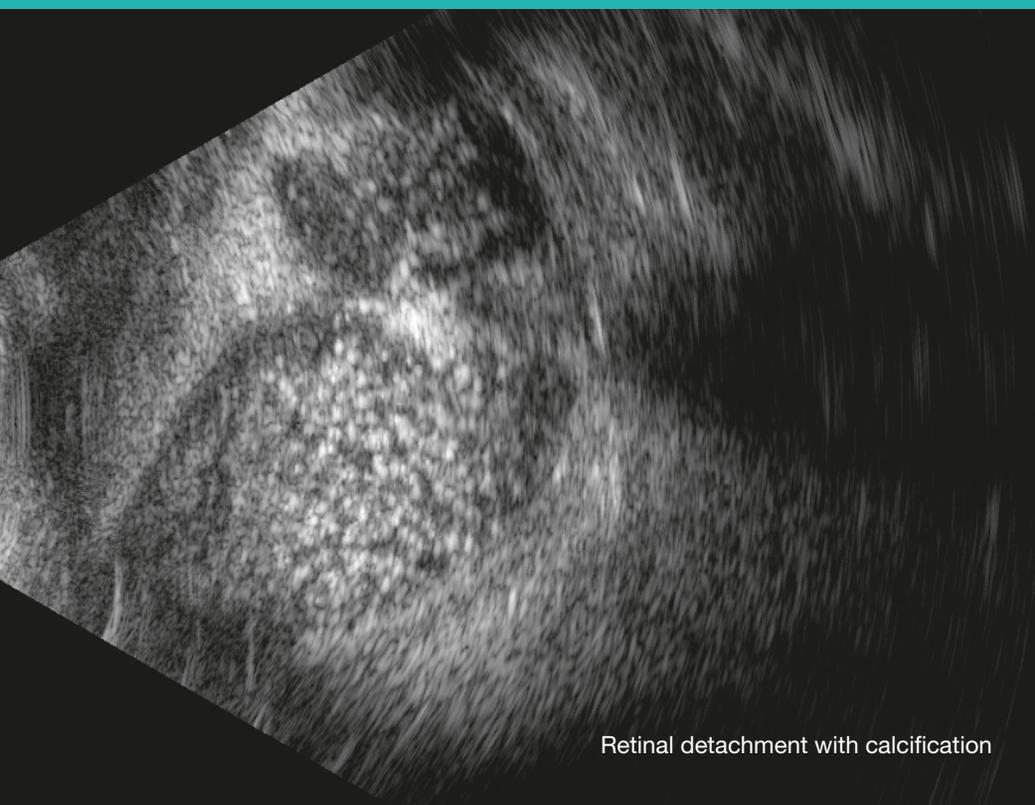
With the proprietary algorithm Agile Focus™ Technology, Eye Prime™ refocuses and enhances every pixel in 1mm incremental steps to optimize examination for all patients infants to adults regardless of orbital size — and takes your ultrasound capability to the next level.



Proprietary Six-Ring Phased Array Annular Technology delivers crisp high definition imaging and optimized focal point accuracy.



Retinal detachment with PVR



Retinal detachment with calcification

“Maximize echo amplification and preserve tissue differentiation”

“Unparalleled levels of accuracy, flexibility and image quality”

Floater Visualization

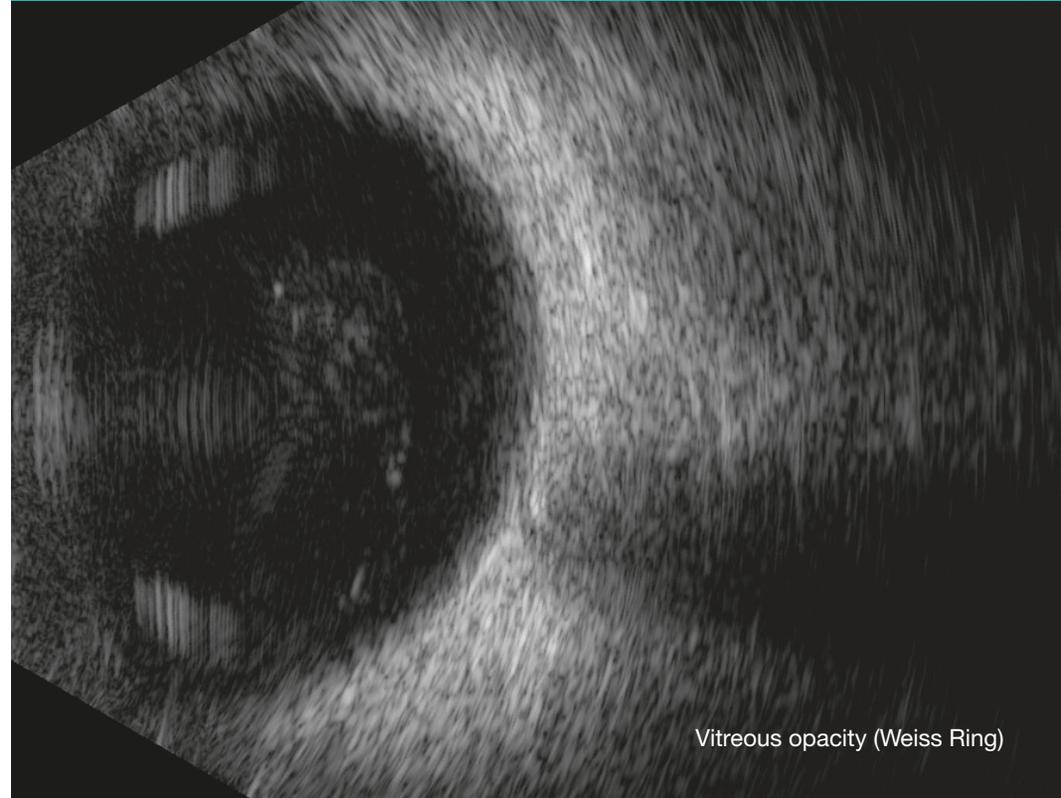
B-Scan, 12 MHz Posterior

When it comes to the treatment of floaters, the sensitivity of visualization is everything.

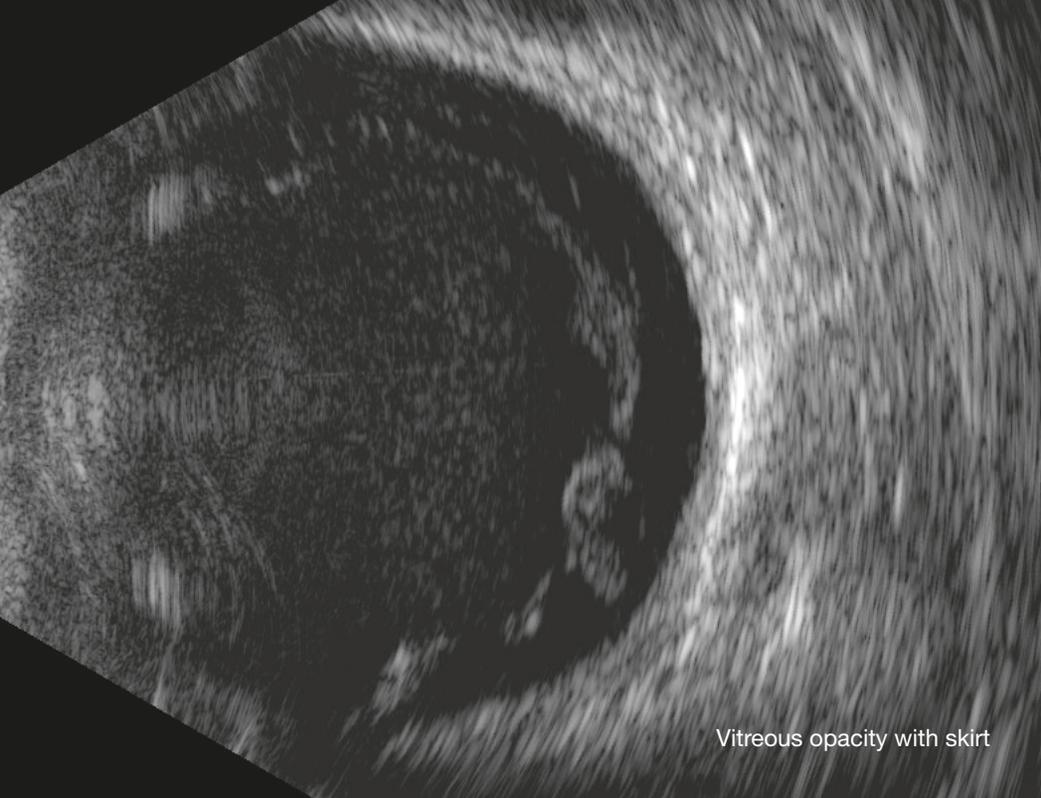
In Eye Prime's 12 MHz mode, large apertures, unique time gain compensation (TGC) presets and deep focusing all combine to ensure that visualization of subtle targets such as vitreous membranes and opaque collagen clusters are presented and defined in superior detail.

Eye Prime™, matched with Ellex's proprietary Reflex Technology™, represents the perfect partnership for floater visualization and treatment.

Eye floaters can be a nuisance, negatively impacting everyday life. In some cases, they can impair vision due to their size and location in the eye.



Vitreous opacity (Weiss Ring)

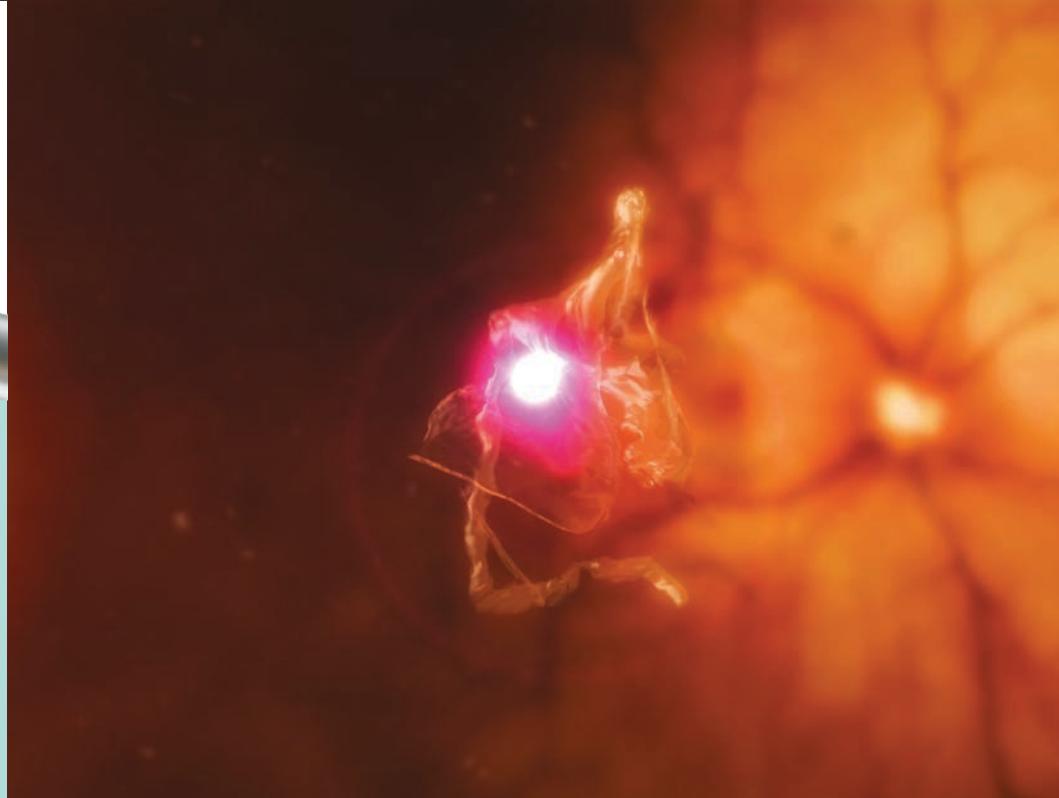


Vitreous opacity with skirt

“Tailor sensitivity and resolution to the application”



“Visualize the entire vitreous – in perfect focus, from posterior lens to the retina”



Focused on the Retina

B-Scan, 18 MHz Posterior

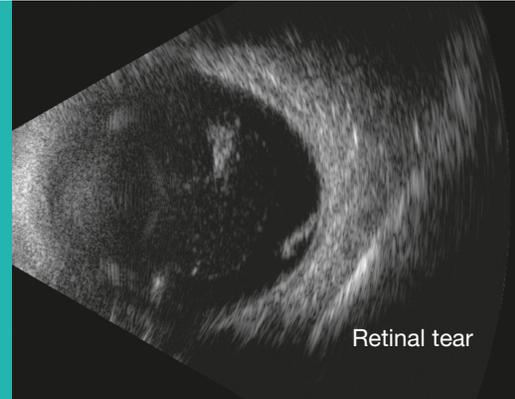
In 18 MHz mode you can tailor sensitivity and resolution across pathology and clinical applications. Exquisite detail throughout the posterior segment reveals unsurpassed imaging of the retina, optic nerve and extraocular muscle.



Retinal detachment with cysts



"No more posterior orbit saturation of the retina, optic nerve and extraocular muscles"



Retinal tear



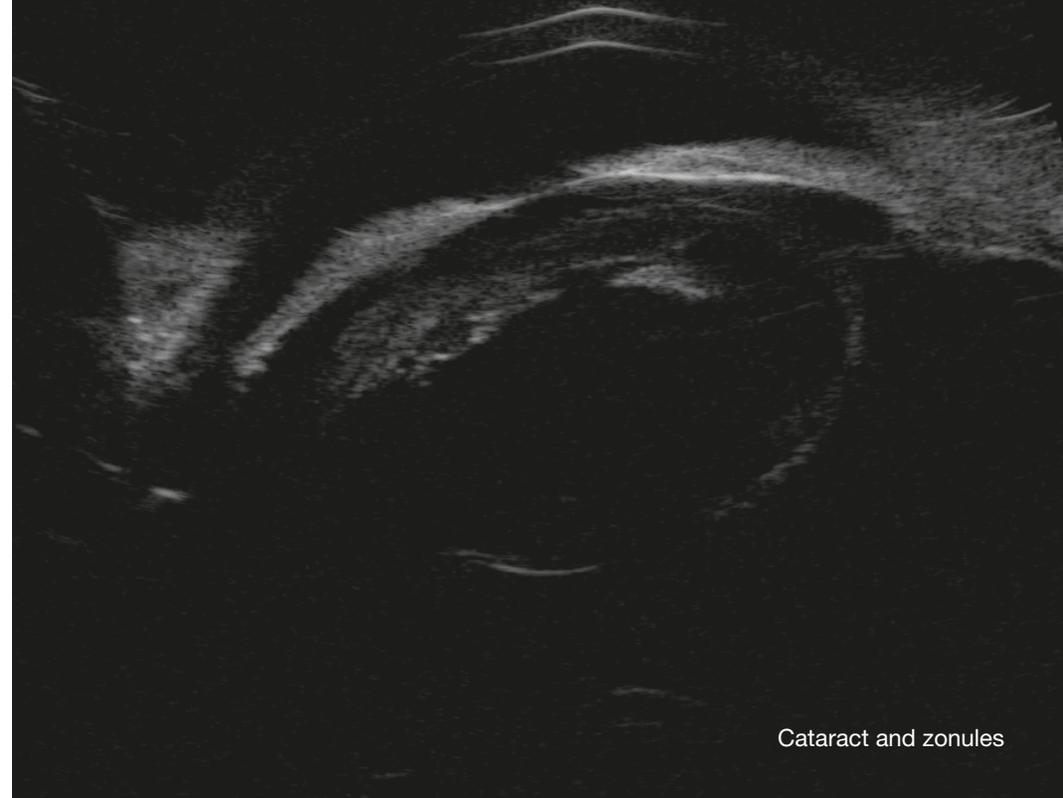
Melanoma

Glaucoma and Cataract

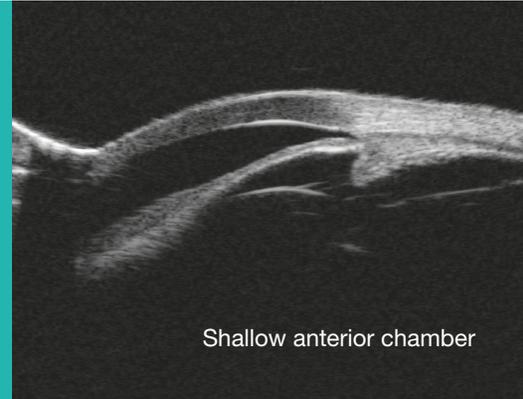
35 MHz UBM and 50 MHz UBM

With the option of 35 MHz and 50 MHz UBM modes Eye Prime™ enables you to choose the resolution and penetration appropriate for the application — and to view the entire anterior segment with less refraction.

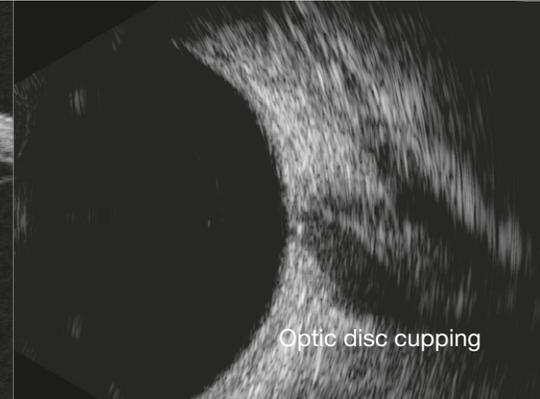
“Sophisticated algorithms filter signals to produce the best image quality possible”



Cataract and zonules



Shallow anterior chamber



Optic disc cupping

eye prime™



Find out how Eye Prime™ delivers unparalleled levels of accuracy, flexibility and image quality across a wide range of ultrasonography applications.

Benefits include

Unprecedented depth of field

Phased Array Annular Technology delivers crisp, high definition Imaging

Agile Focus™ for image optimization

Increased lateral resolution and high axial resolution

Entire eye visible in exceptional detail

Focus in 1 mm steps

Discern between finest ocular structures

Depth dependent real-time sensitive gain compensation (TGC) for excellent resolution

Elimination of retinal saturation whilst preserving vitreous detail and sensitivity

Contact us now to schedule a demonstration

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Helping the world see clearly

