## optomap®



A recent clinical study demonstrates optomap color rgb is significantly superior in image diagnostic information compared to gold standard Topcon fundus photos and Heidelberg Multicolor (MCI) when assessing a variety of retinal, choroidal and optic nerve pathologies.<sup>1</sup>

- **opto**map *color rgb* images are composite images of three laser wavelengths: red (635nm), green (532nm) and blue (488nm). Images are captured in addition to a standard **opto**map *color rg* image. The clinical utility of **opto**map is supported by more than 3,500 peer-reviewed publications across a variety of diseases.
- Reading center assessment found optomap color rgb images were non-inferior to optomap color rg across a variety of lesion types; graders reported small differences in brightness and contrast along vessels, borders of the optic nerve head and definition of the edges of lesions in 16.6% of eyes.<sup>2</sup>
- Research has shown that optomap color rgb confers an advantage in visualizing optic nerve anatomy, hyaloid reflection, PVR subretinal band, superficial retinal hemorrhages, neovascularization, peripheral retinal abnormalities (holes, tears, lattice), ghost vessels or ischemia, enhanced contrast between retinopexy<sup>3</sup> and retinoschisis.<sup>4</sup>
- optomap color rg has benefits over optomap color rgb in pigmented choroidal lesions, thus reviewing both images is advised in such cases.<sup>1</sup>

"The results of our study show that the new Optos California provides a well-balanced color image, while users can choose to use both the color rg or color rgb images to enhance visualization of vitreous, retinal, and choroidal structures."

- OSLI, 2023

See how **opto**map will help you manage your patients. For more information scan the QR code on the back.







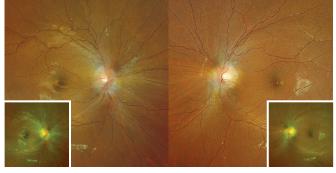
## optomap color rgb: a more natural UWF view



**opto**map color rab provides a more natural view of features anterior to the retina including vitreous traction than optomap color rg.

- optomap color rg has long been the standard for UWF imaging, with more than 3,500 peer-reviewed publications underlining its utility for diagnosing, managing, and treating retinal disease.
- optomap color rgb with four channel image review not only provides a more natural view of the retina but appears to confer an advantage for the following conditions:
  - Optic nerve anatomy<sup>3</sup>
  - Hyaloid reflection<sup>3</sup>
  - PVR subretinal band<sup>3</sup>
  - Superficial retinal hemorrhages<sup>3</sup>
  - Neovascularization<sup>3</sup>
  - Peripheral retinal abnormalities (holes, tears, lattice)<sup>3</sup>
  - Ghost vessels or ischemia<sup>3</sup>
  - Enhanced contrast between the retinopexy<sup>3</sup>
  - Retinoschisis<sup>4</sup>
- An assessment of the new **opto**map color rgb vs. optomap color rg, Topcon white light color montage (dilated) and Heidelberg Multicolor (MCI) 55-degree steered images on 80 eyes with retinal, choroidal and optic nerve pathologies found that **opto**map color rgb was significantly superior in diagnostic information compared to gold standard Topcon and Heidelberg Multicolor.1

- The same study found **opto**map color rg superior to optomap color rgb in assessing the extent and borders of pigmented choroidal lesions like nevi and CHRPE lesions.1
- · One study indicated that white lesions such as retinal vessel sheathing, optic disc cupping, cotton wool spots, and retinal surface lesions such as an epiretinal membrane were easier to detect in **opto**map *rgb* images than in optomap rg images.5
- OptosAdvance™ allows for side by side viewing of optomap color rab and optomap color ra as well as the separation of channels to allow for the most accurate multi-modal assessment of pathology.



**opto**map *color rgb* provides a more natural view of the optic nerve head when there are blurred disc margins.

## References:

- Nogel. Comparison of a Novel Ultra-Widefield Three-Color Scanning Laser Ophthalmoscope to Other Retinal Imaging Modalities in Chorioretinal Lesion Imaging. Transl Vis Sci Technol. 2025 Jan 2;14(1):11 2. Hamill. Addition of Blue Reflectance Image to Red Green 200° Ultra-widefield Images. Investigative Ophthalmology & Visual Science June 2023, Vol.64, 5017.

  3. Stanga. New 200° Single-Capture Color Red-Green-Blue Ultra-Widefield Retinal Imaging Technology: First Clinical Experience. Ophthalmic Surg. Lasers Imaging Retina. 2023 Dec;54(12):714-718.2024.
- 4. Brown. Optos unveils ultra-widefield color image modality, offering increased retinal visualization to ophthalmologists. Ophthalmology Times. 2023. 5. Kondo. Comparison of Two-Color (RG) and Three-Color (RGB) Images obtained by Ultra-WideField Fundus Imaging (Optos). Macula Society. 2025.

optomap color rab is available on California.



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