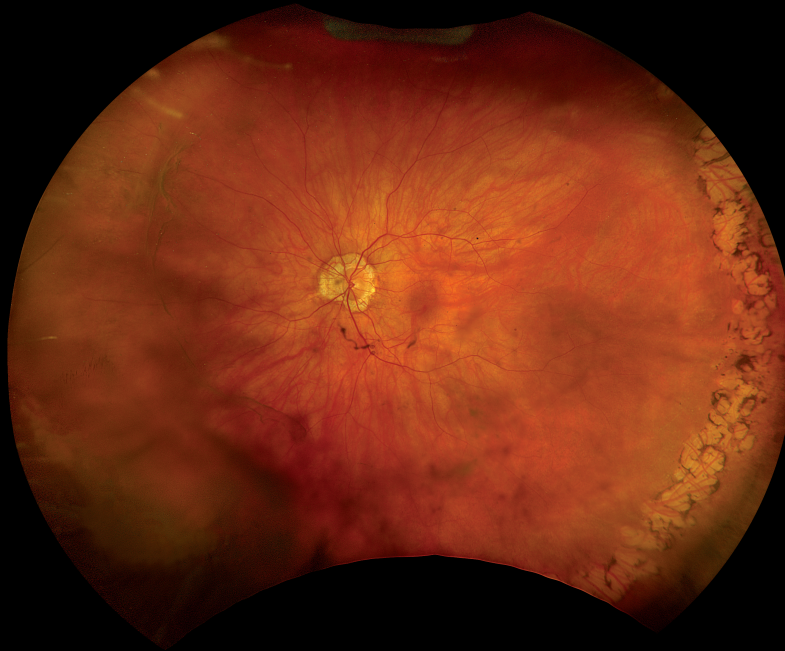


# IMPROVES MYOPIA MANAGEMENT



optomap color rgb

**optomap helps overcome the growing clinical burden of myopia by improving the detection and monitoring of myopic complications across the retina.**

- 95% of highly myopic (HM) patients with drusen-like deposits in the peripheral retina captured with **optomap** have pathologic myopia.<sup>1</sup>
- 55% of HM eyes have posterior staphyloma visualized on **optomap** when compared to conventional fundus photographs.<sup>2,3</sup>
- 42% of HM eyes have diagnosable myopic maculopathy found with **optomap**.<sup>4</sup>
- **optomap** has a sensitivity of 89%<sup>5</sup> and specificity of over 99%<sup>6</sup> in detecting peripheral retinal lesions, holes and tears when compared to clinical exam.
- **optomap** supported the detection of novel paravascular lesions in 71% of myopic patients, and is further bolstered by **optomap af** which together support the evaluation of mid peripheral and peripheral retinal pathologic features.<sup>7</sup>
- Optos devices provide a 200° capture with multimodal capabilities taking as little as 0.5 seconds and OptosAdvance™ review software tools to monitor progression and support patient counseling.

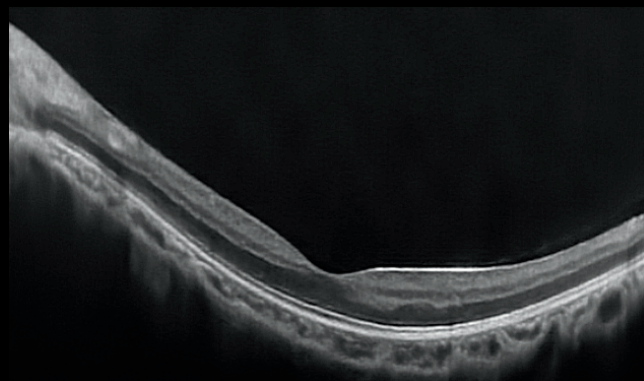
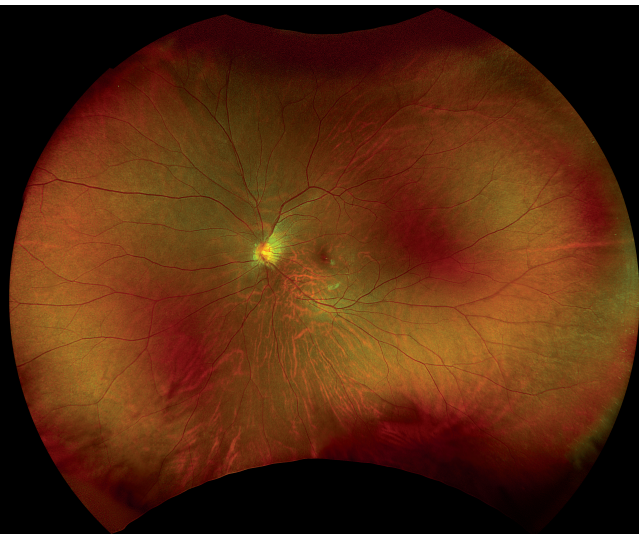
*“The speed, ease of use and field of view of ultra-widefield (UWF™) imaging make it a promising screening tool for myopic retinopathy. Compared with dilated fundus examination, UWF imaging has proved to be a good complementary diagnostic modality, with high specificity and moderate sensitivity for detection of peripheral retinal lesions.”*

*-Focus, 2024*

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

# CLINICAL SUMMARY

## optomap improves myopia management



optomap

optomap **color rg** and full retinal thickness SD-OCT of a myopic eye captured on **MonacoPro**.

- 97% of myopic eyes with posterior vitreoretinal abnormalities have vitreoretinal traction identified with Optos **Silverstone**.<sup>8</sup>
- **optomap color rg** and **optomap green af** can detect with greater detail pigmentation and fluorescence, respectively, of staphyloma edges and are highly correlated with, but easier to perform, less invasive and costly than 3D MRI images.<sup>9,2</sup>
- Optos **Silverstone** increases precision of observation and understanding of the peripheral retina in HM patients by capturing focal lesions in 57%, linear lesions in 42% and peripheral vitreoretinal abnormalities in 16% of asymptomatic eyes.<sup>8</sup>
- **MonacoPro's** US-cleared reference database follows new best practice, state of the art guidelines for optic nerve head (ONH) size, which allow for more accurate comparisons as ONH size may be affected by myopic features such as staphyloma, tilted disc or larger disc size.<sup>10</sup>
- **optomap fa** helps find avascular areas in 82%, retinal capillary teleangiectasia in 78%, retinal capillary microaneurysms in 52% of myopic eyes.<sup>11</sup>
- **optomap icg** in eyes with pathologic myopia helps visualize posterior vortex veins, which are associated with more advanced degenerative myopia findings: staphyloma, choroidal neovascularization related macular atrophy and large conus, features unable to be captured without montage in conventional fundus imaging.<sup>12</sup>
- **optomap** is non-mydriatic and non-invasive, and therefore beneficial technology to protect the safety of myopic mothers and their fetuses for examination during the third trimester when retinal thickness and the choroid may be most susceptible to hormonal and hemodynamic changes.<sup>13</sup>
- **optomap color rgb** is now available on some Optos devices. The clinical utility of this new modality has been found to be similar to **optomap color rg** and superior to fundus camera and multi-color imaging.<sup>14</sup>

References: 1. Hady, Shymaa K et al. "Morphology and incidence of drusen-like deposits in peripheral retina of eyes with high myopia." Eye (London, England), 10.1038/s41433-024-03438-x. 12 Nov. 2024, doi:10.1038/s41433-024-03438-x 2. Ohno-Matsui, Kyoko et al. "FEATURES OF POSTERIOR STAPHYLOMAS ANALYZED IN WIDE-FIELD FUNDUS IMAGES IN PATIENTS WITH UNILATERAL AND BILATERAL PATHOLOGIC MYOPIA." Retina (Philadelphia, Pa.) vol. 37,3 (2017): 477-486. doi:10.1097/IAE.0000000000001327 3. Ruiz-Medrano, I.; Puertas, M.; Flores-Moreno, I.; Almazán-Alonso, E.; García-Zamora, M.; Kudsieh, B.; Ruiz-Moreno, J.M. The Importance of the Type of Posterior Staphyloma in the Development of Myopic Maculopathy. Diagnostics 2024, 14, 1581. https://doi.org/10.3390/diagnostics14151581 4. Flores-Moreno, Ignacio et al. "Myopic Maculopathy Progression: Insights Into Posterior Staphyloma and Macular Involvement." American journal of ophthalmology, vol. 270 164-171. 9 Oct. 2024, doi:10.1016/j.ajo.2024.09.035 5. Fogliato, Giovanni et al. "Comparison Between Ultra-Widefield Pseudocolor Imaging and Indirect Ophthalmoscopy in the Detection of Peripheral Retinal Lesions." Ophthalmic surgery, lasers & imaging retina vol. 50,9 (2019): 544-549. doi:10.3928/23258160-20190905-02 6. Yang, Danjuan et al. "Optomap ultrawide field imaging for detecting peripheral retinal lesions in 1725 high myopic eyes before implantable collamer lens surgery." Clinical & experimental ophthalmology vol. 48,7 (2020): 895-902. doi:10.1111/ceo.13809 7. Fang, Yuxin et al. "Novel Paravascular Lesions with Abnormal Autofluorescence in Pathologic Myopia." Ophthalmology vol. 128,3 (2021): 477-480. doi:10.1016/j.ophtha.2020.07.044 8. Koh, Kyungmin et al. "Ultra-Widefield-Guided Swept-Source OCT Findings of Peripheral Vitreoretinal Abnormality in Young Myopes." Ophthalmology vol. 131,4 (2024): 434-444. doi:10.1016/j.ophtha.2023.11.009 9. Liu, Lillian et al. "CLINICAL AND MORPHOLOGIC FEATURES OF POSTERIOR STAPHYLOMA EDGES BY ULTRA-WIDEFIELD IMAGING IN PATHOLOGIC MYOPIA." Retina (Philadelphia, Pa.) vol. 41,11 (2021): 2278-2287. doi:10.1097/IAE.0000000000003231 10. Ashley Speilburg, Patricia Salazar, Anne Rozwat, Lauren Turner, Michael A Chaglasian, Michael Sinai; The Normal Distribution of Disc Area on a Combined UWF-SLO + SD-OCT device with Comparison to SD-OCT. Invest. Ophthalmol. Vis. Sci. 2024;65(7):4839. 11. Kaneko, Yuichiro et al. "Areas of nonperfusion in peripheral retina of eyes with pathologic myopia detected by ultra-widefield fluorescein angiography." Investigative ophthalmology & visual science vol. 55,3 1432-9. 10 Mar. 2014, doi:10.1167/iov.13-13706 12. Mariyama, Muka et al. "Detection of posterior vortex veins in eyes with pathologic myopia by ultra-widefield indocyanine green angiography." The British journal of ophthalmology vol. 101,9 (2017): 1179-1184. doi:10.1136/bjophthalmol-2016-309877 13. Liu, C., Wei, P. & Li, J. The thickness changes of retina in high myopia patients during the third trimester of pregnancy: a pilot study. BMC Ophthalmol 21, 382 (2021). https://doi.org/10.1186/s12886-021-02137-5 14. Nagel. 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

optomap is available on **Daytona, California, MonacoPro** and **Silverstone**.



Optos UK/Europe  
+44 (0)1383 843350  
ics@optos.com

Optos North America  
800 854 3039  
usinfo@optos.com

Optos DACH  
DE: 0800 72 36 805  
AT: 0800 24 48 86  
CH: 0800 55 87 39  
ics@optos.com

Optos Australia  
+61 8 8444 6500  
auinfo@optos.com

Contact us:

