Micro Medical Devices Unveils Game-Changing Portable Diagnostics Following Successful 2025 Trade Show Season

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Micro Medical Devices (MMD), a leading innovator in portable ophthalmic diagnostic equipment, announced the successful launch of two major additions to its product offering following their debut at key fall trade shows.

The VF2000 G2-Lite 3 portable VR visual field analyzer and the iView B-SCAN wireless ophthalmic ultrasound received strong interest from eye care professionals at Vision Expo West, AAOpt, and AAO.

Throughout the season, MMD representatives conducted live demonstrations for clinicians who were seeking tools that fit the growing demand for mobility, streamlined workflows, and diagnostic accuracy without the traditional cost and space requirements of older systems.

The VF2000 G2-Lite 3, priced at $4,995, expands access to visual field screening by offering an all-in-one VR

headset that delivers eleven essential tests without the high investment or installation complexity associated with classic tabletop perimetry systems.

Built on the platform of the flagship VF2000 G2, this lightweight device can function entirely offline, offering plug-and-play convenience and a VR interface that shortens testing time and improves patient comfort. It includes central 20, 40, 80, and 166-point screening patterns, visual acuity testing, contrast sensitivity testing, stereopsis evaluation, Ishihara and D15 color testing, and specialized protocols such as Superior 64 for ptosis evaluation and Neuro-20 for neuro-ophthalmic assessment.

Because the device requires no external workstation, calibration, or special room setup, providers noted that it integrates easily into both small independent practices and large, multi-location groups.

Several clinicians who tested the unit at Vision Expo West commented that the G2-Lite 3 could serve as a practical screening tool for busy offices that need to free up traditional perimeters for complex threshold testing or glaucoma monitoring. Others reported that the device?s simplicity makes it useful for technicians with varied experience levels, allowing practices to delegate screening tasks more efficiently and maintain faster patient flow.

The portability of the G2-Lite 3 also appealed to providers who frequently travel between offices, support community screenings, or operate satellite clinics with limited space for large diagnostic equipment. ?The G2-Lite 3 puts VR visual field screening within reach of every eye care provider,? said Ramin Hooriani, founder of Micro Medical Devices. ?We?ve eliminated the barriers of cost and complexity without compromising on accuracy or clinical value.?

MMD also introduced the iView B-SCAN, a wireless ophthalmic ultrasound designed to deliver diagnostic precision without the limitations of cables or fixed workstations.

The device incorporates a solid-state array with 128 elements and no moving parts, offering high reliability across clinical, surgical, and emergency environments. Its wireless construction allows point-of-care imaging in settings where traditional ultrasound systems are impractical, and its touchscreen interface enables staff to begin using the system confidently after brief instruction.

Key capabilities include multiple imaging modes?B, B/M, Color, PW, and PDI?an 8?11 MHz micro-convex probe optimized for ocular imaging, color Doppler for blood-flow visualization, three hours of continuous operation on a 2800mAh battery, and flexible export options including PDF, JPG, AVI, MP4, and DICOM-compatible formats.

Users testing the handheld unit remarked that the wireless format allows them to move freely around exam

lanes, triage rooms, and surgical centers without the workstation tethering that often slows traditional B-scan procedures.

Demonstrations at AAOpt showed how quickly clinicians could capture images of retinal detachment, vitreous hemorrhage, choroidal thickening, and trauma-related findings.

Emergency care physicians and optometrists serving rural communities noted that the device could be especially valuable for facilities without existing ultrasound capabilities, enabling immediate decision-making and reducing the need for outside referrals or ER transfers.

?The response from the clinical community has been overwhelming,? added Hooriani. ?Practitioners immediately recognize how these devices solve real-world challenges in their practices?from space constraints and budget limitations to the need for mobile diagnostics. We?re bringing enterprise-grade capabilities to practices of all sizes.?

Micro Medical Devices designs and manufactures HIPAA-compliant, ISO-certified ophthalmic diagnostic technology made in the United States, with a product line that includes VR visual field analyzers, portable ultrasound biometry systems, and advanced imaging tools used by eye care professionals worldwide.

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Micro Medical Devices is a technology company that specializes in developing portable, handheld technology such as VR Visual Field headsets to help solve day-to-day challenges for a new generation of eye care practitioners.

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