

Full Field 120 Visual Field Exam

Your Comprehensive Guide

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As the name suggests, the Full Field 120 visual field exam is a comprehensive assessment of a patient's entire visual field. Other exams acutely focus on specific regions to collect details, but this test is more all-encompassing. With this broad range, you can identify common conditions like glaucoma, macular degeneration, or neurological conditions.

To make this test even more efficient and useful, Carrot speeds up the process and collects accurate insights within moments. Offering more comfortable, accessible, and convenient Full Field 120 testing elevates the patient experience while supporting your practice's workflow.

Full Field 120 Visual Field Exam Overview

For people with normal vision, each eye's visual field spans 120 degrees horizontally and 90 degrees [vertically](#). Many conditions, like glaucoma or retinopathy, gradually erode the visual field or introduce scotomas. A comprehensive visual field test, such as the Full Field 120, can detect early signs, allowing for a faster intervention and a greater opportunity to preserve vision.

This test presents stimuli in both the central and peripheral vision areas and can be performed monocularly or binocularly to assess natural vision. The "120" refers to the number of data points collected from both eyes, each with an area of 55 degrees from fixation. Conditions that cause optic nerve damage can create scotomas, and no matter where these scotomas appear, you can detect them using the Full Field 120 test. Because this visual field test has so many data points, it can take a little longer than others. Carrot speeds up the process and offers a more patient-friendly experience, helping you reduce patient fatigue while still collecting all the necessary insights.

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Academic references and clinical validation



The Full Field 120 is a suprathreshold exam, and [this study](#) showed that exams of this type perform well to screen for glaucoma.



Since the Full Field 120 test can collect so much data, it's sometimes used to identify clinical indicators, as in [this study](#) investigating drug toxicity.

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Mapping 120 distinct points across the entire range of central and peripheral vision makes the Full Field 120 one of the most comprehensive tests available on Carrot. This wide coverage can help detect glaucoma, optic neuropathies, and visual pathway disorders that may not appear in central-only tests. But because it's so comprehensive, this test has a longer duration than others. Patients who struggle with fatigue or attention may find this more challenging, but Carrot cuts testing time by up to 50%.

Pros and cons of the Full Field 120 test

We know that the Full Field 120 test is efficient, useful, and widely used; however, there are pros and cons to incorporating this test into your routine.

PROS	CONS
Evaluation of both central and peripheral visual fields helps detect a wide range of defects.	Because it's more comprehensive than others, interpreting Full Field 120 results can be complex and has a learning curve.
This test is especially useful to diagnose early-stage glaucoma for faster intervention.	When using traditional tabletop perimeters, this test can take a long time and require specialized equipment for accurate results.
With 120 points, the visual field map is very detailed, so it's good for follow-up and monitoring disease progression.	Although Carrot shortens the testing duration, this is still one of the longer exams, so patients who struggle to focus may become fatigued.
Carrot collects all these data points into our advanced algorithm for fast, precise insights.	The Full Field 120 may identify minor defects that might not be relevant.

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Glaucoma	Peripheral vision loss is one of the first signs of glaucoma, and since the Full Field 120 examines the entire visual field, you can detect defects early.
Stroke	Post-stroke patients may experience blind spots or larger visual field changes like hemianopia. The Full Field 120 can identify these spots and monitor changes following the neurological event.
Retinitis Pigmentosa	Retinitis pigmentosa is characterized by constricted peripheral vision and, ultimately, tunnel vision. Examining the entire visual field can reveal these changes earlier and help monitor progression.
Optic Neuritis	Inflammation of the optic nerve can result in central and peripheral visual field defects, which the Full Field 120 test can help identify.
Other Conditions	The Full Field 120 can also be used to monitor or diagnose: Macular degeneration • Pituitary tumors • Multiple sclerosis • Ischemic optic neuropathy • Chiasmal syndromes • Retinal detachment • Traumatic brain injury (TBI)

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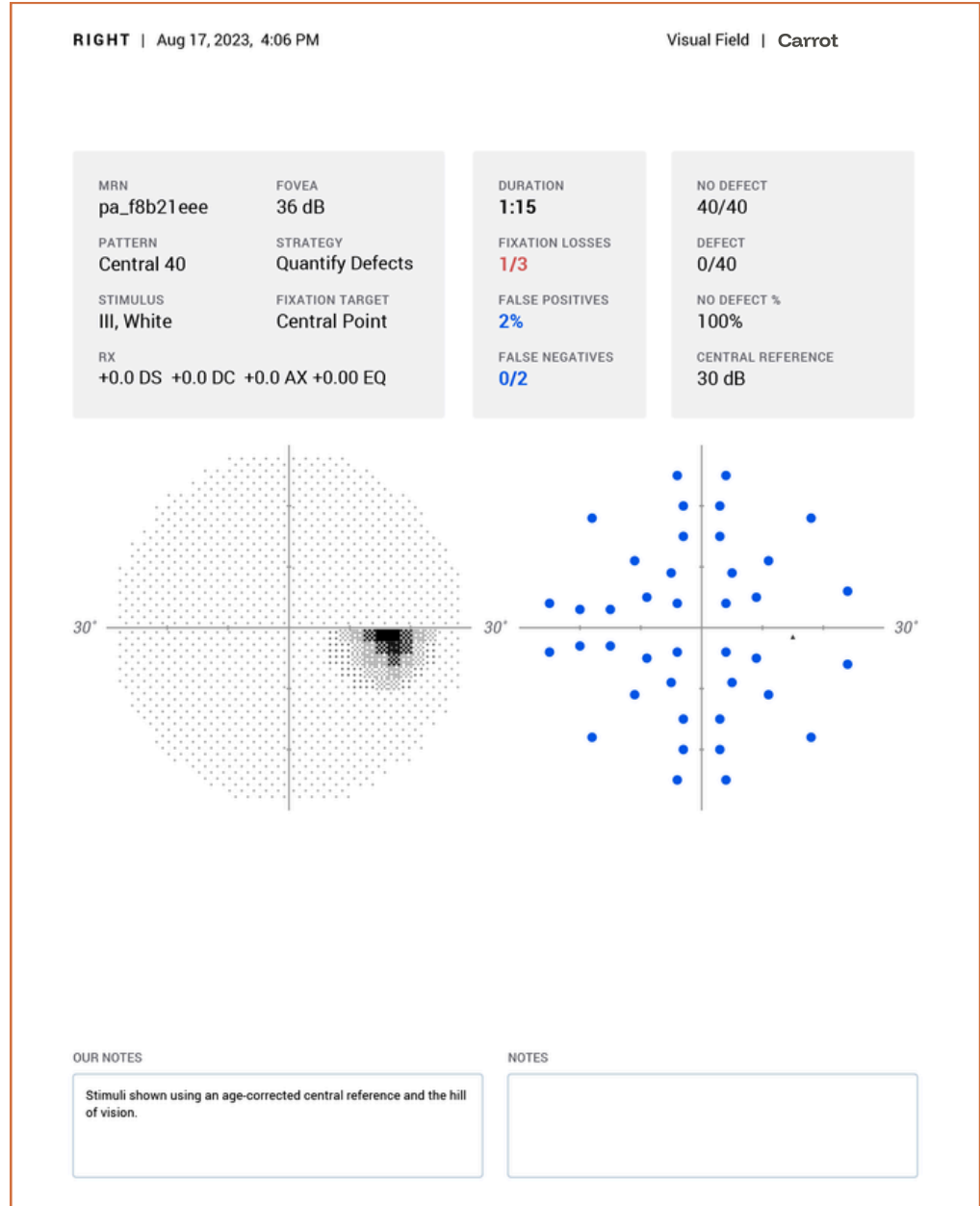
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Billing and Coding for the Full Field 120 Visual Field Exam

The Full Field 120 is an extended visual field exam, so it can be [billed](#) using CPT code 92083. [Medicare Physician Fee Schedule \(MPFS\)](#) reimbursement ranges from \$25 to \$81, and your fee will depend on practice location, setting, modifiers, and other factors.

When is the Full Field 120 test required?

This test is often enlightening for patients with symptoms that suggest peripheral vision loss, like difficulty seeing in low light, tunnel vision, trouble driving, or reduced depth perception. Patients with unexplained vision changes could benefit from a Full Field 120 test as a way to clear up their questions. People at risk of glaucoma, neurological disorders, or retinal diseases should have their complete field of vision examined at least once.

For patients with progressive conditions like glaucoma or retinitis pigmentosa, the Full Field 120 can monitor vision and inform treatment adjustments. Early detection allows for speedier intervention, so this exam is likely beneficial for a wide range of patients.

Is the Full Field 120 required for driver's licenses?

The Full Field 120 exam, by name, isn't mandated for driver's licenses, but its results often are. [In most states](#), non-commercial drivers are required to have uninterrupted vision of at least 100 degrees horizontally, using both eyes. The Full Field 120 can clearly identify this range, so the results from this exam are [highly relevant for drivers](#).

To gain a commercial driver's license (CDL), drivers require a horizontal field of vision of 70 degrees in each eye. That aligns perfectly with the Full Field 120's capabilities. Although states rarely specify the name of the visual field exam needed for driver's licensing, the Full Field 120's results support these requirements for eligible drivers.

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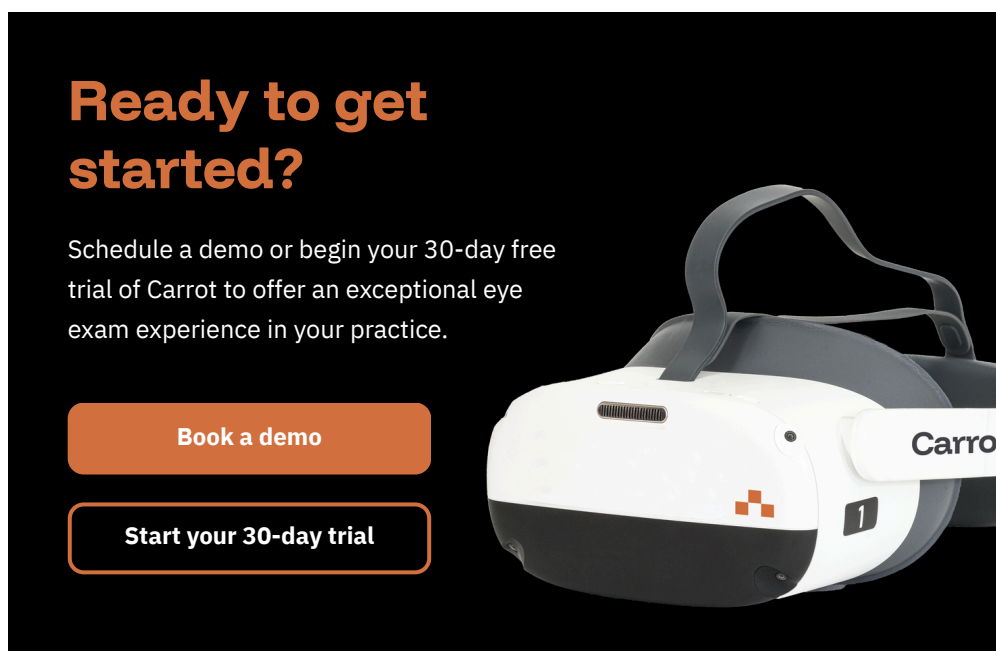
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When patients present with unknown visual field changes or risk factors for glaucoma, it's worth setting aside a few extra minutes to conduct the Full Field 120. With this test, you can reveal a wide range of conditions and gain a comprehensive perspective on patients' vision. And by conducting these exams using Carrot, you can expedite and streamline the testing process without sacrificing the patient experience. You can offer a more comfortable, accessible, and modernized eye exam experience to all your patients.

Download our complete Carrot Guide to Visual Exams to learn about all the tests you can perform with Carrot.




Ready to get started?

Schedule a demo or begin your 30-day free trial of Carrot to offer an exceptional eye exam experience in your practice.

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Questions? Contact sales@carrot.io talk to a Carrot expert today.