

Fitting Guide

1 Patient Selection

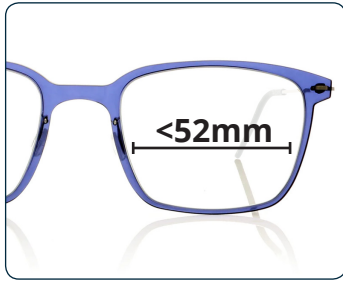
Children between the ages of 5 and 16 years old where binocular vision is normal; especially, where at least one parent is myopic.

NOT RECOMMENDED during sporting activities or where peripheral vision is required. **UNSAFE** while driving. A second pair of standard lenses are recommended for these exceptions.



2 Frame Selection

- Select frame with "A" measurement less than 52mm for proper cut-out or use cut out formula.
- Adjustable nose pads recommended.
- Ensure frame does not slip on nose.
- $<5^\circ$ Pantoscopic tilt.



Second pair recommended for: outdoor use (sun protection), sports, and driving.

Anti-reflection coating recommended: LuxAR U, LuxAR ES or Clear Blue coating.

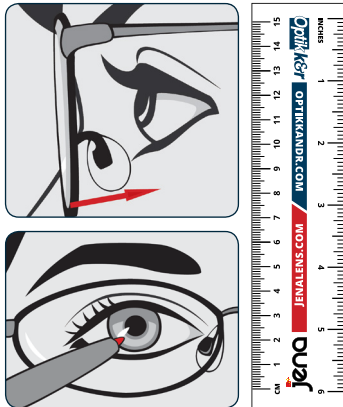
3 Take Measurements

Ensure the frame is fitted well on the face and does not easily slide down the nose. Adjust temples if necessary.

Pantoscopic tilt should be adjusted to final position before taking height measurement.

Measure Height, Pantoscopic tilt, and Monocular PDs.

Accurate Height measurement is critical.



4 Ordering & Dispensing

Order as you would a Single Vision lens. If panto and wrap are provided, prescription will be compensated and manufactured utilizing freeform technology.

- When dispensing, ensure frame does not slip on nose.
- If the patient's pupil is vertically displaced from center, adjust nose pads, temples or pantoscopic tilt.
- Fit on pupil. If vision is blurry, check power and PD.
- Instruct the patient that a "head-turn" is required to view objects peripherally.



Communicate that an adaptation period of 1 to 2 weeks is required for first time wearers.

5 Follow-up

Adaptation and performance follow-up at 2 weeks. Additional 6-12 month follow-ups are recommended.



Jena Refocus is designed to *slow the progression of myopia among children*. The single vision freeform lens has a clear central zone and a defocused mid-periphery.

Jena Refocus is accomplished by **DMS (Defocus Multiple Segments)**. The DMS technology works on the concept of creating simultaneous defocus during both distance and near viewing - one plane on the retina, and one plane creating myopic defocus. **Refocus** freeform lenses are **custom made and individualized**.

Recent studies¹⁻³ have highlighted **the effectiveness of myopia control and the tolerability of the DMS lenses for children, in comparison to regular single vision lenses.**

TECHNICAL SPECIFICATIONS

- OZ:** OZ 10mm diameter
- Defocused Zone:** Defocused Zone from 10mm to 25mm
- Material:** Polycarbonate Clear; Polycarbonate Tinted for Outdoor use
- Front Curves:** Front Curves (3D and 5D)
- Thickness:** Minimum Center Thickness (CT) 2mm
- Diameter:** Maximum Blank size 70mm (smaller frames are better since lens can not be decentered)
- Power Range:** Plano to -10D, Cylinder up to -4D
- Coating:** Scratch Resistant coating included. Anti-reflection and Clear Blue coating available.
- Cutout Formula:** $(ED + (A + DBL) - PD) = X$. Value of X must be <70 mm.
- Warranty:** 100 day redo for any reason.

IDENTIFY MARKINGS & TRACEABILITY

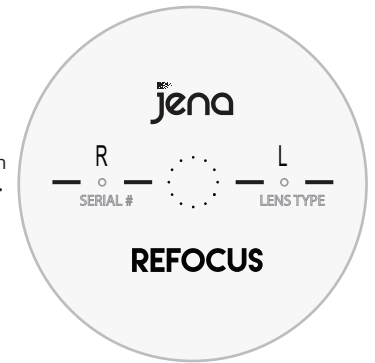
Ink Markings

Ink markings of lens side (R/L), engraved circles and OZ verification position when lenses are received uncut.

Engraved Markings

All Jena Refocus lenses are engraved with a nearly invisible **unique serial number**. This provides traceability and ensures the correct prescription is dispensed to the patient.

Two laser engraved circles along the horizontal allow for aid in determining fitting/verification position.



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DISCLAIMER: While evidence suggests that children who use mid-periphery defocused lenses have experienced slowed myopia progression, **results may vary.**

1. Lam CSY, Tang WC, Tse DY, Lee RPK, Chun RKM, Hasegawa K, Qi H, Hatanaka T, To CH. Defocus Incorporated Multiple Segments (DIMS) spectacle lenses slow myopia progression: a 2-year randomised clinical trial. Br J Ophthalmol. 2020 Mar;104(3):363-368. doi: 10.1136/bjophthalmol-2018-313739. Epub 2019 May 29. PMID: 31142465; PMCID: PMC7041503.
2. Bao J, Huang Y, Li X, Yang A, Zhou F, Wu J, Wang C, Li Y, Lim EW, Spiegel DP, Drobe B, Chen H. Spectacle Lenses With Aspherical Lenslets for Myopia Control vs Single-Vision Spectacle Lenses: A Randomized Clinical Trial. JAMA Ophthalmol. 2022 May 1;140(5):472-478. doi: 10.1001/jamaophthalmol.2022.0401. PMID: 35357402; PMCID: PMC8972151.
3. James S, Wolffsohn, Pete S, Kollbaum, David A, Berntsen, David A, Atchison, Alexandra Benavente, Arthur Bradley, Hetal Buckhurst, Michael Collins, Takashi Fujikado, Takahiro Hirooka, Masakazu Hirota, Debbie Jones, Nicola S, Logan, Linda Lundstrom, Hidemasa Torii, Scott A, Read, Kevin Nardoo; IMI - Clinical Myopia Control Trials and Instrumentation Report. Invest. Ophthalmol. Vis. Sci. 2019;60(3):M132-M160. doi: <https://doi.org/10.1167/iov.19-25955>.