



# Easy Prismi – User Manual

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Glasses · Prisms (T.A.B.O.)

Stile Ottica SA – [stileottica.ch/app](https://stileottica.ch/app)

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## Overview

Easy Prismi is a professional tool for opticians and eye-care practitioners. It combines prismatic corrections using **vector addition**, handles over-refraction (adding a measured prism to an existing prescription), and provides tools to redistribute the combined prism load across both eyes – including full transfer to one eye and symmetric split between both.

Prismatic values are expressed in **cm/m**, equivalent to prism dioptres ( $\Delta$ ). Bases follow the **T.A.B.O. system**.

# The T.A.B.O. Coordinate System

Prism bases are specified as angles in degrees following the T.A.B.O. convention:

DIRECTION	ANGLE
Nasal (R) / Temporal (L)	0°
Up	90°
Temporal (R) / Nasal (L)	180°
Down	270°

**Important:** Nasal and Temporal are **eye-specific**. For the Right eye, Nasal = 0° and Temporal = 180°. For the Left eye, these are swapped: Temporal = 0° and Nasal = 180°. The app manages this automatically.

## Interface Layout

1. **Patient** – name, date, language, settings
2. **Values** – existing prismatic prescription (up to 2 prisms per eye)
3. **Over-refraction** (*collapsible*) – additional prism measured over the existing correction
4. **Separate prisms per eye** (*collapsible*) – resultant for each eye separately, with transfer and split options
5. **Single prism per eye** (*collapsible*) – vector sum collapsed to one prism per eye, with transfer and split options
6. **Notes** – reference information on units, T.A.B.O., and calculation rules

## Patient Card

The Patient Card interface is a light blue rounded rectangle. At the top left, it displays 'PATIENT' in blue text and a blue 'RECORD' button. To the right are three icons: a language selector showing 'EN' with a dropdown arrow, a gear icon for settings, and a share icon. Below these are two input fields: 'NAME' with a placeholder 'Name' and 'DATE' with the value '1 Jun 2026'.

**Name** and **Date** identify the record. The date defaults to today.

**Language selector** (top-left) – available languages: English, Italian, French, German, Spanish, Portuguese, Chinese, Japanese, Korean.

**Settings** (gear icon) – see the [Settings](#) section.

**Share** (share icon) – captures the screen as an image and opens the system share sheet.

# Values Card

VALUES
PRISMS

● R

PRISM 1

1.00

BASE 1

TEMP.

0

NAS.

NAS.

180

TEMP.

PRISM 2

0.50

BASE 2

UP

90

DOWN

● L

PRISM 1

0.50

BASE 1

TEMP.

0

NAS.

NAS.

180

TEMP.

PRISM 2

0.50

BASE 2

UP

270

DOWN

Enter the patient's **existing prismatic prescription** – up to two prisms per eye, each defined by a magnitude and a base direction.

For each eye (Right / Left), there are two prism slots:

FIELD	DESCRIPTION
<b>Prism 1</b>	Magnitude in $\Delta$ (prism dioptres / cm/m). Typically the horizontal component.
<b>Base 1</b>	Base direction in degrees (T.A.B.O.). Shortcut buttons: <b>Temp.</b> (180°) and <b>Nas.</b> (0°) for horizontal; values are eye-specific.
<b>Prism 2</b>	Magnitude in $\Delta$ . Typically the vertical component.
<b>Base 2</b>	Base direction. Shortcut buttons: <b>Up</b> (90°) and <b>Down</b> (270°).

Entering 0 for a prism magnitude means that component is not present. Results update automatically.

## Over-Refraction Card (*collapsible*)

**OVER-REFRACTION** ENTER DATA ▲

R  L

PRISM 1 PRISM 1

0.00

0.00

BASE 1 BASE 1

TEMP.

0

NAS.

NAS.

0

TEMP.

PRISM 2 PRISM 2

0.00

0.00

BASE 2 BASE 2

UP

UP

0

0

DOWN

DOWN

Enter a **prism measured over the existing correction** – for example from a refraction performed with the patient wearing their current glasses. The format is identical to the Values card (two prisms per eye with bases).

The over-refraction is **vectorially added** to the Values input before computing the results. If no over-refraction is needed, leave this card collapsed or set all values to zero.

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## Calculation Method

All combinations use **vector addition of H and V components**.

Each prism  $p$  at base angle  $\theta$  is decomposed into:

$$H = p \cos \theta \quad V = p \sin \theta$$

Multiple prisms are summed component-by-component:

$$H_{\text{tot}} = \sum H_i \quad V_{\text{tot}} = \sum V_i$$

The resultant magnitude and base are then reconstructed:

$$p_{\text{tot}} = \sqrt{H_{\text{tot}}^2 + V_{\text{tot}}^2} \quad \theta_{\text{tot}} = \arctan! \left( \frac{V_{\text{tot}}}{H_{\text{tot}}} \right)$$

## Separate Prisms per Eye Card (collapsible)

SEPARATE PRISMS PER EYE RESULTANT ▲

<p>● R</p> <p>PRISM 1 1.00 Δ</p> <hr/> <p>BASE 1 0°</p> <hr/> <p>PRISM 2 0.50 Δ</p> <hr/> <p>BASE 2 90°</p>	<p>● L</p> <p>PRISM 1 0.50 Δ</p> <hr/> <p>BASE 1 180°</p> <hr/> <p>PRISM 2 0.50 Δ</p> <hr/> <p>BASE 2 270°</p>
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All on R All on L

P. 1 on R, P. 2 on L P. 1 on L, P. 2 on R

⇌ SPLIT

Shows the **resultant of the two input prisms for each eye independently** – i.e. the vector sum of Prism 1 + Prism 2 within each eye, expressed as two separate orthogonal components (horizontal + vertical), still in two-prism format.

This is the standard dispensing format: one horizontal prism and one vertical prism per eye.

## Transfer buttons

SEPARATE PRISMS PER EYE
RESULTANT
▲

● R

PRISM 1	1.00 Δ
BASE 1	0°
PRISM 2	0.50 Δ
BASE 2	90°

● L

PRISM 1	0.50 Δ
BASE 1	180°
PRISM 2	0.50 Δ
BASE 2	270°

All on R

All on L

● R

PRISM 1	1.50 Δ
BASE 1	0°
PRISM 2	1.00 Δ
BASE 2	90°

● L

PRISM 1	—
BASE 1	—
PRISM 2	—
BASE 2	—

P. 1 on R, P. 2 on L

P. 1 on L, P. 2 on R

⇌ SPLIT

**All on R / All on L** – transfers the total combined prismatic effect (both eyes) onto a single eye. This is used when concentrating the full correction in one lens.

When transferring from one eye to the other, both the H and V components are **inverted** (Up ↔ Down, Nas. ↔ Temp.) to maintain the correct optical effect at the other eye.

Mathematically, for a transfer to R:

$$H_{R,\text{total}} = H_R + (-H_L) \quad V_{R,\text{total}} = V_R + (-V_L)$$

## Prism 1 on Right, Prism 2 on Left / Prism 1 on Left, Prism 2 on Right

SEPARATE PRISMS PER EYE
RESULTANT
▲

● R

PRISM 1	1.00 Δ
BASE 1	0°
PRISM 2	0.50 Δ
BASE 2	90°

● L

PRISM 1	0.50 Δ
BASE 1	180°
PRISM 2	0.50 Δ
BASE 2	270°

All on R

All on L

P. 1 on R, P. 2 on L

P. 1 on L, P. 2 on R

● R

PRISM 1	1.50 Δ
BASE 1	0°
PRISM 2	—
BASE 2	—

● L

PRISM 1	—
BASE 1	—
PRISM 2	1.00 Δ
BASE 2	270°

⇌ SPLIT

Assigns the two input prisms to specific eyes: **Prism 1 on Right, Prism 2 on Left** places the first input prism on the right eye and the second on the left; **Prism 1 on Left, Prism 2 on Right** does the reverse.

The components of Prism 1 go directly to the selected eye, and the components of Prism 2 go to the other.

Unlike the Transfer buttons (which collapse both prisms onto a single eye) or Split (which symmetrically divides the total), this operation preserves both prisms independently and simply routes them to the intended eyes.

## ⇌ Split

SEPARATE PRISMS PER EYE
RESULTANT
▲

● R

PRISM 1	1.00 Δ
BASE 1	0°
PRISM 2	0.50 Δ
BASE 2	90°

● L

PRISM 1	0.50 Δ
BASE 1	180°
PRISM 2	0.50 Δ
BASE 2	270°

All on R

All on L

P. 1 on R, P. 2 on L

P. 1 on L, P. 2 on R

≠ SPLIT

● R

PRISM 1	0.75 Δ
BASE 1	0°
PRISM 2	0.50 Δ
BASE 2	90°

● L

PRISM 1	0.75 Δ
BASE 1	180°
PRISM 2	0.50 Δ
BASE 2	270°

Symmetrically divides the total prismatic load between both eyes. Each eye receives exactly half, with mirrored bases:

$$H_{R,\text{split}} = \frac{H_{\text{tot}}}{2} \quad H_{L,\text{split}} = -\frac{H_{\text{tot}}}{2}$$

$$V_{R,\text{split}} = \frac{V_{\text{tot}}}{2} \quad V_{L,\text{split}} = -\frac{V_{\text{tot}}}{2}$$

This minimises the prismatic load per lens and is the preferred approach when both eyes can tolerate the correction equally.

## Single Prism per Eye Card (collapsible)

SINGLE PRISM PER EYE VECTOR SUM ▲

<p>● R</p> <p>PRISM <b>1.12 Δ</b></p> <hr/> <p>BASE <b>27°</b></p>	<p>● L</p> <p>PRISM <b>0.71 Δ</b></p> <hr/> <p>BASE <b>225°</b></p>
All on R	All on L
⇌ SPLIT	

Collapses the result to **one single prism per eye** using the same vector addition, but expressing the resultant as a single magnitude and base angle instead of two components. This is useful when the lens manufacturer requires a single oblique prism specification.

The same **Transfer** and ⇌ **Split** operations are available here, operating on the single combined prism per eye.

### Transfer

SINGLE PRISM PER EYE VECTOR SUM ▲

<p>● R</p> <p>PRISM <b>1.12 Δ</b></p> <hr/> <p>BASE <b>27°</b></p>	<p>● L</p> <p>PRISM <b>0.71 Δ</b></p> <hr/> <p>BASE <b>225°</b></p>
All on R	All on L
<p>● R</p> <p>PRISM <b>1.80 Δ</b></p> <hr/> <p>BASE <b>34°</b></p>	<p>● L</p> <p>PRISM <b>—</b></p> <hr/> <p>BASE <b>—</b></p>
⇌ SPLIT	

## ⇌ Split

**SINGLE PRISM PER EYE** VECTOR SUM ▲

<b>R</b>		<b>L</b>
PRISM	1.12 Δ	PRISM 0.71 Δ
BASE	27°	BASE 225°

All on R      All on L

≠ SPLIT

<b>R</b>		<b>L</b>
PRISM	0.90 Δ	PRISM 0.90 Δ
BASE	34°	BASE 214°

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## Notes Card

A permanent reference at the bottom of the page:

- Prismatic values are in cm/m (= Δ)
- Bases follow T.A.B.O. (R Nas. = 0°, Up = 90°, Temp. = 180°, Down = 270°; L swaps Nas./Temp.)
- Combination uses vector addition of H and V components
- Transfer inverts both H and V
- Split divides the total load symmetrically, with mirrored bases

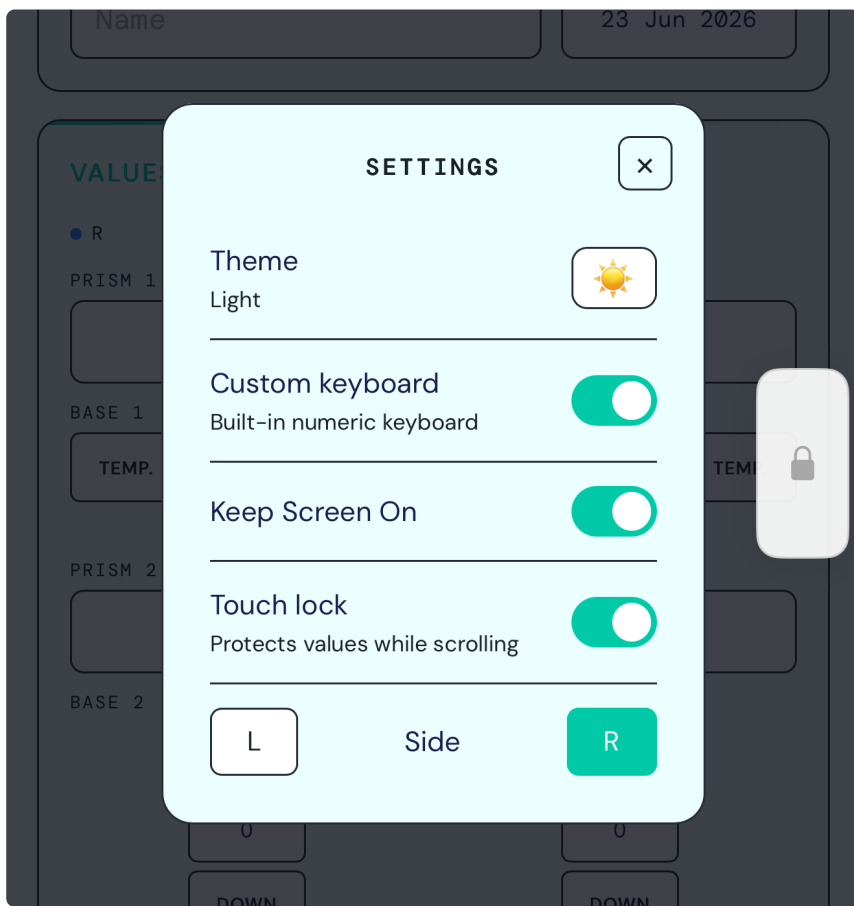
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## Reset

↻ **Reset all values** clears all prism and base fields.

# Settings

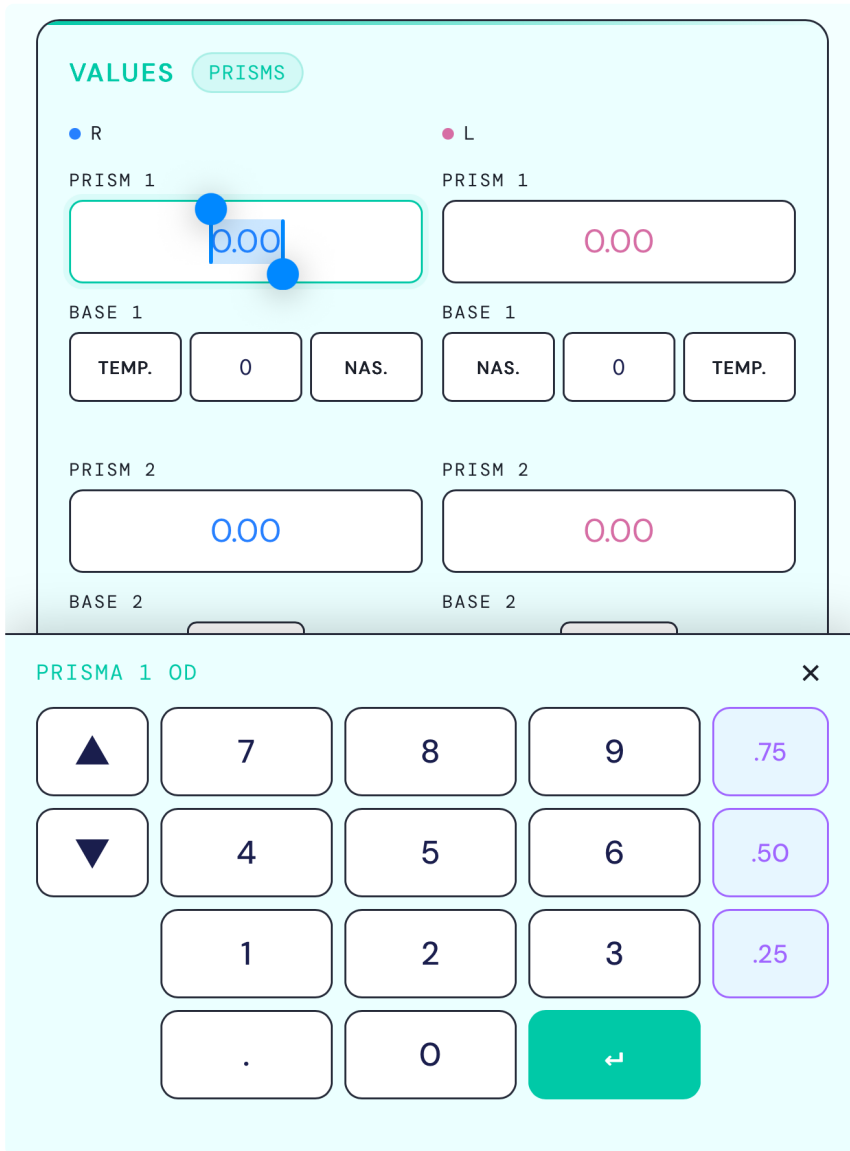
Open via the **gear icon** in the Patient card header.



## Theme

Toggles between **Light** and **Dark** mode. Saved automatically.

## Custom Keyboard



Enables the built-in numeric keypad for entering prism and base values.

## Touch Lock

Floating **lock pill** to prevent accidental input changes while scrolling. Choose **L** or **R** for the pill position.

Even with Touch Lock active, the following control remain accessible:

- **Share** button

*Touch Lock is available on iOS only.*

## ⓘ Info Modal

The ⓘ **button** at the bottom shows the app version and links to [stileottica.ch/app](https://stileottica.ch/app) and [support@stileottica.ch](mailto:support@stileottica.ch).

## Tips

- **Prism 1 is typically horizontal** (Base Nas. or Temp.) and **Prism 2 is typically vertical** (Base Up or Down). This matches the standard prescription format. The shortcut buttons fill in the correct T.A.B.O. angle automatically.
- **If only one prism component exists** (e.g. purely horizontal), leave Prism 2 at . It will not appear in the results.
- **The Over-refraction card** is useful when re-evaluating a patient who already has prisms in their glasses – enter the existing prescription in Values and the newly measured correction in Over-refraction; the app computes the new total.
- **Transfer to one eye** is sometimes necessary when one eye cannot tolerate any prism (e.g. due to anisometropia or lens constraints). Remember that concentrating prism in one lens adds weight and thickness.
- **The Split** is generally preferred for binocular balance and lens weight distribution.
- **Oblique prisms** (bases not at 0°/90°/180°/270°) are fully supported – type the angle directly in the Base field. The shortcut buttons cover the four cardinal directions only.