



Your partner in saving sight.®

Smart360[®] Mini-Guide

FOR 16-19mm SCLERAL LENSES



BostonSight[®]
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The Key to Success: A Good Scan

Achieving a quality scan with your OCULUS® Pentacam CSP is key to fitting success. BostonSight SCLERAL fitter, Dr. Ellen Shorter, presented a webinar for OCULUS about how to use their Pentacam CSP software to create a Smart360® BostonSight SCLERAL lens. Remember, to design a successful free-form lens, **it is critical that the scan is high quality.**

Here are a few key tips:

- Put the Pentacam in a dark room
- Use a lid stick to hold up the eyelid
- Use topical anesthesia on the patient's eye to help them stay focused

▶ View the webinar [here](#).

▶ Then, export data from Pentacam CSP software into a .csv file and save on your computer.



If you require assistance with scan acquisition, OCULUS recommends Pentacam CSP users contact them directly via one of the following options:

- By Phone at 425-670-9977 and ask for Clinical Application
- By Email at application@oculususa.com
- Schedule a Training at www.calendly.com/oculus-contact-lens-partners-bostonsight

Start an Order

- 1 Scan your patient's eye and export data from Pentacam CSP software into a .csv file, following the suggestions on Page 2.
[Save the file](#) on your computer.
- 2 In FitConnect®, [Register your Patient](#) and [Start a New Order](#).
 1. Select Fit Method as [Smart360®](#)

✓ Patient 2 Product

< Choose a product

Additional Methods

FitKit/Diagnostic
Start from a FitKit

Smart360®
Upload scans for a custom lens design

2. Select [Right or Left Eye](#)
3. Product as [SCLERAL Smart360](#)
4. Click [Order Type](#) then [Continue](#)

1 Patient 2 Product 3 Scan 360 4 Optics & Properties 5 Fit Modifications 6 Review

< Choose a product

Additional Methods

Smart360®
Upload scans for a custom lens design

Eye

Right

Product

SCLERAL Smart360

Order Type

New Fit
Start a new fitting period from a Pk00, previous order or Smart360

Continue

Practitioner Practice Test Test Test test

Order Summary

Name: CRN Sally Brown 12345678

Right Eye

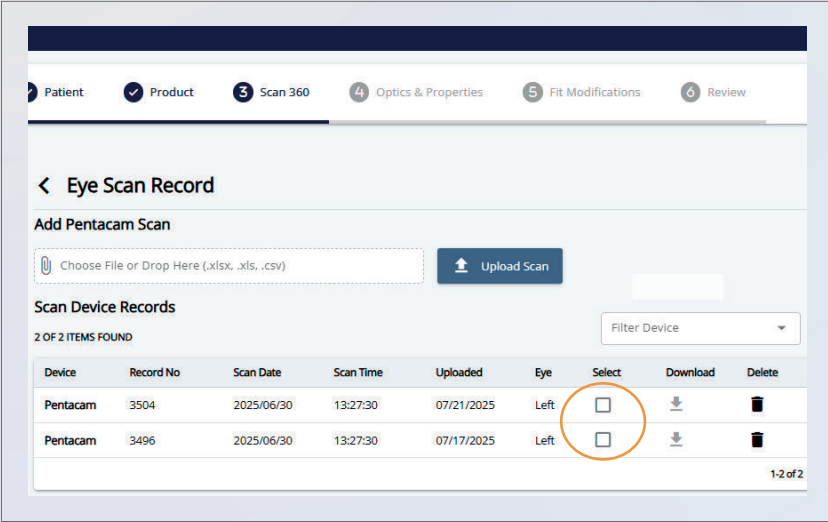
Product: SCLERAL 360

Parameter Diameter Order Type Fit

Tips

Upload the Scan

- 3 Find the **Pentacam** file from your computer.
5. **Choose** file
6. **Upload** the scan for this order
7. Note that all scans you have already uploaded will be listed in your Scan Device Records. If your scan is already listed, you may select it from the list. Check the corresponding **Select** box and then click **Continue** (orange button) on the top right to proceed.



Adjust Lens Optics & Properties

① Calculate Lens Optics to enter over-refraction by 1 of 3 options:

- BostonSight SCLERAL trial lens with FSE
- RGP Trial
- Manual lens optics entry

Select **Calculate** at each of the options to update the corresponding Lens Optics.

Optics & Properties

Calculate Optics

Olds Reference Lens Olds RGP Trial Manual Optics Entry

Olds Reference Lens:
Olds User 1: User verification with BostonSight SCLERAL Trial

Parameter	Value/Unit
Spherical Power	0.00
Cylinder	0.00
Axis	000

Calculate

Properties

Parameter	Value/Unit
SmartSight FSE	FSE1
Material	Contact Optimum Care
Hydra PEG	No
Dot Color	Black Dot

Continue

Order Summary

Name: [Name]
DOB: [DOB]
Test Type: [Test Type]
Product: 1/1/1 FSE 1/1/1
Power: 10.00
Diameter: 18.00
Circle Type: 1.8
[Continue]

Calculated Lens Optics:
Power: 0.00-0.00-0.00
Base Curve: 8.00
SmartSight FSE: 1/1/1
Properties: [Properties]
Material: Contact Optimum Care
Hydra PEG: No
Dot Color: Black Dot

Eye Scan Record:
Date: [Date]
Power: 10.00
Scan Date: 2023/10/10
Scan Date: 10/27/23
Minutal FSE 1/1/1
Vertical FSE Diameter: 0
Contact Characteristic: 0
Minutal FSE 1/1/1: 0.14
Dot Extension: 0.14

Tips

② Under **Properties**, select:

1. SmartSight FSE
2. Material
3. Hydra-PEG, if applicable
4. Dot Color (black or clear)

Click **Continue**.

Fit Modifications

- ③ Choose diameter (see diameter recommendations page 7), then enter:

- Corneal Clearance – your desired central sag vault. We recommend 250 - 300 microns.
- Base Curve – the algorithm will make a recommendation, however you can adjust.
- Horizontal Iris Diameter (HVID) – obtain data from topographer or measure using slit lamp.
- Vertical Iris Diameter (VVID) – obtain data from topographer or measure using slit lamp.
- Click [Recalculate](#).

The screenshot displays the 'Fit Modifications' interface in the Pentacam software. The top navigation bar includes tabs for 'Patient', 'Product', 'Scan 360', 'Optics & Properties', 'Fit Modifications' (which is active), and 'Review'. The main area contains input fields for 'Diameter' (17.0), 'Base Curve' (33), 'Corneal Clearance (um)' (250), 'Horizontal Iris Diameter' (12.5), and 'Vertical Iris Diameter' (12). A 'Recalculate' button is prominently displayed and circled in orange. To the right of the input fields is a '+ Add SmartChannel' button. Below these fields are five graphs showing meridional profiles for Meridian 12.00, 9.00, 3.00, and 6.00. Each graph plots sagittal height against radius, showing 'Best Profile' and 'Back Profile' curves. On the right side of the screen, there is an 'Order Summary' section with a 'Continue' button at the top. This section lists patient information (Name, DOB, Left Eye) and a detailed list of optical parameters including Radius, Power, Base Curve, HVID, VVID, Corneal Clearance, and Recommended BC. A 'Tips' section at the bottom right provides instructions on how to place an order.

- ④ Click [+SmartChannel](#) if you would like to add Channels for reducing suction or vaulting.
- ⑤ Click [Continue](#) to go to the [Order Summary](#) page and place your order.

Diameter Recommendations

You know your patients best, however it can be helpful to have a quick reference for which diameter may work well for your case. The following are general guidelines.

16, 16.5 and 17mm

Small HVIDs
($\leq 11.0\text{mm}$)

Small apertures

Tight lids

Regular corneas

Pediatric patients

Difficulty
handling lenses

18, 18.5 and 19mm

Large HVIDs
($\geq 11.5\text{mm}$)

Compromised
ocular surface

Highly ectatic
corneas

Chronic exposure

Compromised /
fragile grafts

Severe dry eye



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MKT-008 Rev 1