

Topcon Screen

Integrating Point of Care Diabetic Eye Screening into Your Clinical Workflow and EMR

How Does it Work?

Step 1: Capture images with retinal camera (2 minutes or less per patient with the tabletop TRC-NW400 retinal camera).

Step 2: Images are securely transmitted and interpreted remotely by a board-certified ophthalmologist who returns an Interpretation Report complete with ICD-10 codes required for billing.

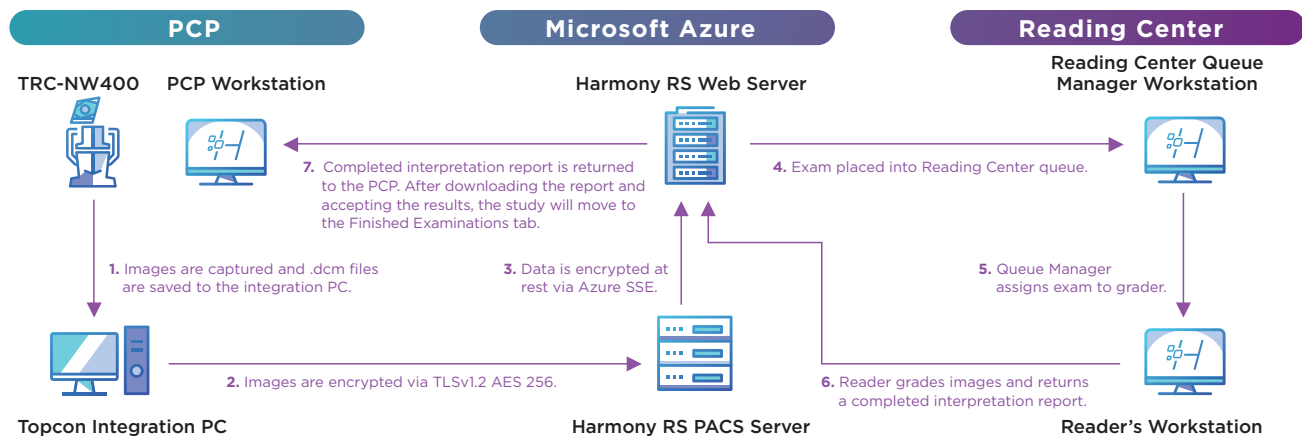
Step 3: Interpretation Report is downloaded as a PDF from Topcon's portal, or delivered directly into your EMR.

Bi-directional EMR Integration

Topcon has over a decade of experience connecting instruments with various electronic medical records systems via HL7 interface.

Topcon Screen Workflow

The Topcon Screen workflow diagram shows the interactions between the provider, the image management software system (Harmony RS) and the reading center for image analysis.



TOPCON SCREEN TECHNICAL REQUIREMENTS

Bandwidth requirements

- Topcon Screen requires 5mb/s download and 3mb/s upload speed for images
- Upload per image (from integration service to cloud, Lossless JPEG2000): 3.5MB
- Download per image (viewing images in the cloud, PNG): 5MB Client PC requirements
- Google Chrome and any OS capable of running Google Chrome (website will work in other browsers, but Chrome is preferred)
- A .p12 browser certificate (provided by Topcon) will need to be installed on each PC accessing the website and on a per user basis. This certificate can either be installed by Topcon on a PC and left with the users or given to IT for distribution
- URL – <https://prod.topcon.app> (Port 443)

Integration PC requirements (SFF PC provided by Topcon for use with TRC-NW400 retinal camera)

- TeamViewer Ports/URLS
 - > TCP/UDP Port 5938
 - > TCP Port 443
 - > TCP Port 80
 - > TeamViewer is set up with unattended access due to the SFF PC not having a monitor. This makes the process of Topcon logging into the system quicker for everyone involved. This feature can be turned off, if the client's IT department prefers.
- URL – prod.topcon.app (Port 12002)
- REST interface open (towards prod.topcon.app at port 20000 TCP) 12002 is also TCP

Integration PC requirements (PC provided by client for use with SIGNAL handheld retinal camera)

- 64-bit Windows OS
- 4GB RAM
- URL – prod.topcon.app (Port 12002)
- Administrator privileges to install integration software
- Access to USB ports to transfer images for daily upload