DISCOVER
HARMONY

A simple clinical data & communication management solution so that you can focus on what matters: **driving better patient outcomes.**

TOPCON Healthcare

SEEING EYE HEALTH DIFFERENTLY

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Data Management + Communication. Simplified.

Harmony's integrated workflow enables patient information to flow seamlessly from an EMR directly to the device, through Harmony and back, reducing human errors and enhancing practice efficiency.

Solve your data management and communication challenges with the next-generation digital data and communication management solution, Topcon Harmony. Harmony connects all of your diagnostic instruments, regardless of manufacturer, in one secure, web-based platform, while supporting both artificial intelligence integrations and telehealth.

Save Time & Improve Communication

Fast, automatic image analysis and second opinion support offer you savings in time and tools that support your clinical decision making.

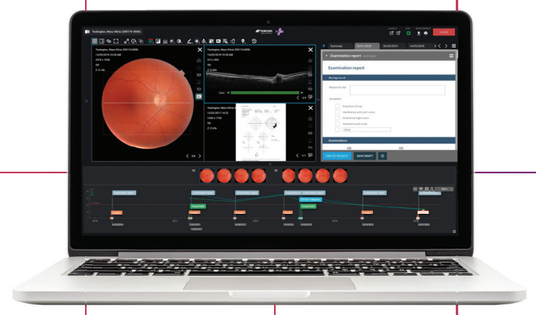
Easy Access & Excellent Usability

Easily access and analyse all patient examination data through your browser from anywhere at any time. The intuitive and feature-rich platform facilitates your data analysis and clinical decision making.

KEY FEATURES AT A GLANCE

VENDOR NEUTRAL CONNECTIVITY
Connect all your devices regardless of their type and brand.

ARTIFICIAL INTELLIGENCE
Integrations to automatic image analysis tools to support early detection and accurate diagnosis.



TIMELINE VIEW
Get an overview of the patient's examination history, and easily navigate between examinations and images.

INTEGRATIONS
Seamless integration to examination devices, EMR's and other information systems such as PACS and National Health Records.

TELEHEALTH PORTAL
Secure portal for 2nd opinion consulting and referrals.

SECURE BROWSER-BASED ACCESS
Secure and store data to be easily accessible via a browser from anywhere & anytime.

ANALYTICS & REPORTING
Tools for clinical analytics and business intelligence.

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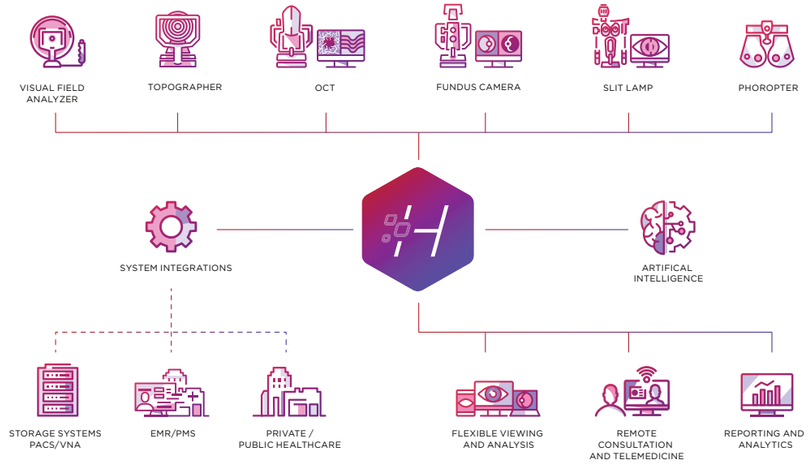
VENDOR NEUTRAL CONNECTIVITY

Harmony is a vendor neutral platform that offers users an easy and seamless workflow for viewing examination data from different devices.



Device Integrations

Harmony integrates with a broad portfolio of eye care devices, independent of the vendor. Harmony Integration Service (IS) provides robust tools for integrating both DICOM and non-DICOM devices.

Device Integrations

- Patient/modality worklists
- Examination data storage

3rd party integrations

- EMRs and Practice Management Systems
- PACS Systems
- AI tools

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WORKFLOW MANAGEMENT

Harmony provides deep integration to both diagnostic instruments and information systems with the goal of increasing efficiency and data quality within the practice by process automation.

1.
Patient is registered to EMR/PMS.

2.
Harmony automatically creates worklists and distributes those to instruments.

3.
Technician/nurse/ optician chooses the right patient from the worklist, examination is performed and data is automatically transferred to Harmony.

4.
(Optional)
All the images are sent to AI-based image analysis.

5.
Eye care specialist reviews the exam data. If needed, consultation/referral can be done immediately.

6.
Consulting specialist reviews the patient data, replies and if needed, refers patient further.

7.
Referral together with relevant patient data is sent to the advanced eye care provider within Harmony.

8.
The sender of the request receives reply with diagnosis, recommendations and follow-up instructions within Harmony.

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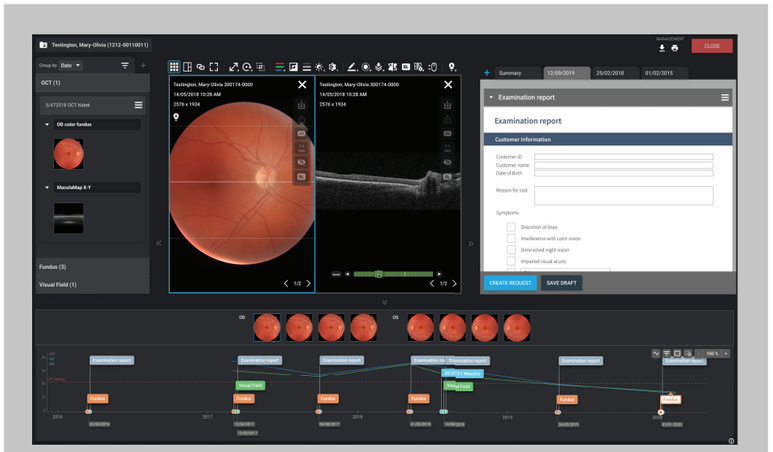
MULTIMODAL VIEWING

Harmony's intuitive design streamlines your practice workflow and organises all your data within a single screen.



Navigation tools

Examination List

The viewer contains a navigator list of examination items such as images, reports and/or other medical device outputs collected of the patient. With filtering and sorting, it is easy to find the exact data you are looking for.

Timeline

The timeline visualises all examinations and clinical events in a graphical representation over time to allow for a quick overview of the patient's visit history. Structured data, such as intraocular pressure values, can be displayed as charts in the timeline.

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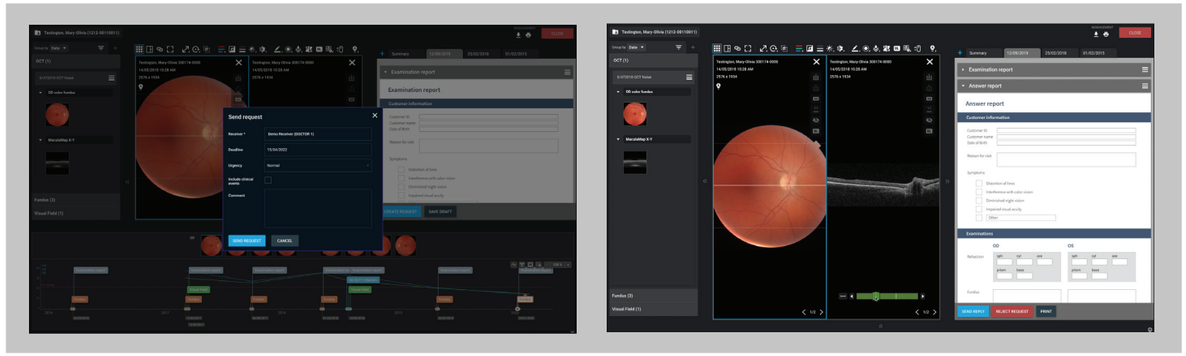
TELEHEALTH PORTAL

Harmony's telehealth portal supports collaboration between eye care professionals by facilitating communication and access to data across sites and organisations.



Communication workflow can be customised according to specific use cases – for example, sending a patient referral or asking for a second opinion.

- Customisable request and response forms
- Requests can be sent to an individual doctor, group of doctors or a whole organisation
- Option to anonymise data
- Worklists, notifications and workflow automation to make communication fast and easy

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REPORTING & ANALYTICS

Harmony's data analytics and reporting tools support your clinical and business operations analytics.

Harmony offers 4 solutions for reporting and data analytics needs:

- Built-in Data Dashboard for graphical visualisation of key Harmony statistics
- Integration to BI-tool to enable in-depth analysis
- Standard statistical reports to view selected key statistics
- Custom-built exports for specific data requirements (for research purposes, etc.)

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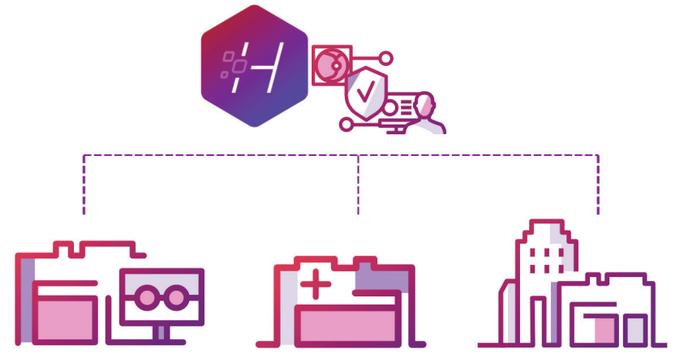
DATA SECURITY

Harmony provides you with a secure medical grade strorage system where all data is encrypted and backed up.



Confidentiality and data integrity

Access to Harmony and its components is restricted to a corporate network or specified IP-addresses, hence preventing access to the system from outside your organisation. If your organisation does not have static IP addresses, it is possible to use client certificates.

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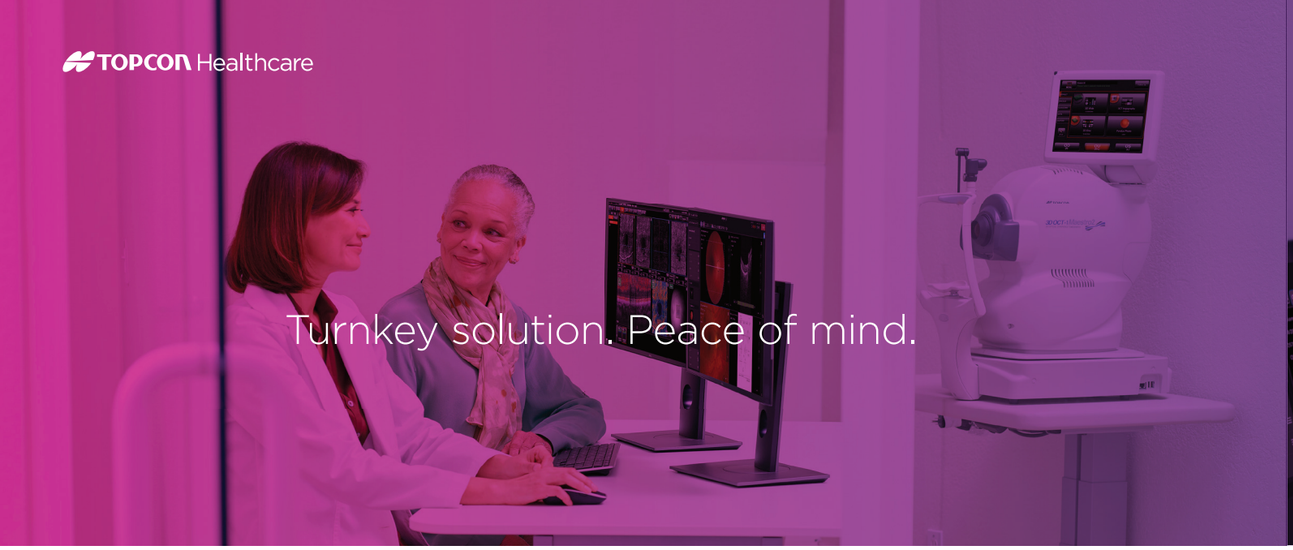

SYSTEM REQUIREMENTS

USER WORKSTATION

	Minimum Specifications
Processor	Any modern processor
RAM	4 GB or more (depending on browser and system usage)
Display	Full HD (1920x1080) resolution monitor
Browser	Chrome, Mozilla Firefox, Microsoft Edge Chromium (performance verified with the latest browser version upon each Harmony version release)
Network connection	Volume OCTs and larger video files (> 50 MB) • 50 Mbps (recommended), 25 Mbps (minimum) Other file types (e.g. fundus images, PDFs, numeric data) • 5 Mbps (minimum)
Operating system	Any operating system capable of running supported browser
Other	Software for reading the User Manual in PDF format

NOTE!
Using Harmony in the browser's "privacy mode" is not supported. If the browser is set to privacy mode, some functions are limited within Harmony.

Recommended upgrades: 8 GB RAM, SSD, WQHD 2560x1440 resolution monitor

HARMONY SERVER

	Minimum Specifications
RAM	8 GB
Hard drive	100 GB + data storage for DICOM files
Processor	4 core 64 bit
Operating system	Debian Linux 11
Supported JRE	Java 11
Database	MariaDB 10.x

Must have expandable mount point for actual file storage. Depending on the usage, storage size is from 100 GB up to several terabytes.

SYSTEM REQUIREMENTS

INTEGRATION SERVER

	Minimum Specifications
Processor	2 core 64 bit
RAM	8 GB
Hard drive	100 GB
Operating system	Windows Server or Workstation
Supported JRE	Java 8, Java 11 (recommended)

WEB WORKLIST

Supported browsers	Chrome, Microsoft Edge Chromium

DATA CENTER (IN ON-PREMISE INSTALLATIONS)

	Minimum Specifications
Network connection	100 Mbps (recommended), 50 Mbps (minimum)
Power redundancy	UPS and generator (ANSI/TIA 942-A 2014 TIER1)
Network connection redundancy	Two (2) different internet service providers
Other	Access to server management, adequate support from customer (for example, knowledge of Linux)

SUPPORTED LANGUAGES

Arabic	English	French	Spanish
Chinese	GB/UK English	German	Swedish
Danish	Estonian	Japanese	
Dutch	Finnish	Norwegian	

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Learn more about **Harmony** and schedule your demo.

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