





MaximEyes® SQL
Electronic Health Records Software

Diagnostic Equipment Integrations MaximEyes SQL 1.0 and Higher

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The equipment listed within this document has been tested and is supported by MaximEyes SQL version 1.0 and higher. To ensure optimum software performance and data integrity, First Insight requires that you use only tested and supported hardware. For more information about diagnostic equipment integrations, contact First Insight at 800.920.1940, Option 2.

Company	Equipment	Integration Type	Additional Information
Canon USA, Inc. www.usa.canon.com	<ul style="list-style-type: none"> R-F10 Full Auto Refractor RK-F1 Full Auto Refractor-Keratometer TX-F Full Auto Tonometer 	Direct Integration for all equipment listed.	
Carl Zeiss Meditec, Inc. www.meditec.zeiss.com  Certified FORUM Integration	<ul style="list-style-type: none"> HARK-599 Autorefractor/Keratometer HARK-599V2 LA-306, LA-330, LA-340, LA-350 and LA-360 (Humphrey) Lens Analyzer Humphrey Field Analyzer HFA II – iSeries models: 720i, 740i, 745i and 750i FORUM – The following products are supported with FORUM: Atlas 9000, Atlas 99x, Cirrus HD-OCT, FF450, GDx VCC, GDx Pro, HFA II-i series units, IOL Master, Stratus OCT, Visante OCT and Visucam VISUPAC – Storage and Review System (compatible with Visupac 4.2 and Visupac 4.4.4 versions) <p>The following products are supported with VISUPAC version 4.2 and 4.4.4: Visucam Pro, Visucam Lite 1st and 2nd generation, FF450 Plus and non plus cameras, Visucam NM/FA and Visucam NM/FA/AF</p>	Direct Integration for all equipment listed.	<p>HARK-599 Autorefractor/Keratometer: This model will only work with maximEyes if the equipment’s software version B8 is installed. If you do not know what equipment software version you have, please contact your Carl Zeiss Meditec representative for more details.</p> <p>Humphrey Field Analyzer (HFA): This integration requires HFA-NET Pro software version 4.1 or 4.2 from Carl Zeiss Meditec, Inc. for your HFA II – iSeries models to integrate with MaximEyes SQL 1.0 and higher. Contact your Carl Zeiss Meditec representative for more details.</p> <p>FORUM: Contact your Carl Zeiss Meditec representative for integration prerequisites.</p> <p>VISUPAC: This integration requires an HIS license, which is also known as SMP Basic license from Carl Zeiss Meditec. Contact your Carl Zeiss Meditec representative for more details.</p>
Grand Seiko Company, Ltd www.grandseiko.com	<ul style="list-style-type: none"> GL-7000 Auto Lensmeter 	Direct Integration for all equipment listed.	
Heidelberg Engineering www.heidelbergengineering.com	<ul style="list-style-type: none"> HRT II HRT 3 Spectralis OCT Spectralis OCT with BluePeak Spectralis OCT PLUS Spectralis OCT PLUS with BluePeak Spectralis HRA Spectralis HRA+OCT Spectralis FA+OCT 	Integration through Heidelberg Eye Explorer.	<p>Heidelberg Eye Explorer Software: You must install Heidelberg Eye Explorer software. Contact your Heidelberg Engineering representative if you have questions or issues with their software.</p>

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<p>Kowa Optimed, Inc. www.kowascope.com</p>	<ul style="list-style-type: none"> • Kowa VK-2 Digital Imaging System, compatible with version 5.0.3.0 and above. (See Additional Information) 	<p>Direct Integration for all equipment listed.</p>	<p>The following equipment/cameras are supported with Kowa VK-2:</p> <ul style="list-style-type: none"> • Nonmyd Alpha-D (2Mega USB) • Nonmyd Alpha-D (5Mega IEEE1394) • Nonmyd Alpha-D(8Mega USB) • Nonmyd7 (uses a variety of Nikon camera backs) • V-10 and VX-10i can use the following cameras: Nikon camera back, KD-211 (2 megapixel single CCD), KD-630 (3CCD, each 2 megapixel), KD144i (for ICG; use only on VX-10i) • AP26C (digital slit lamp system, uses IEEE1394 "a" or "b" digital video cameras)
<p>Marco www.marco.com</p> 	<ul style="list-style-type: none"> • RT2100/5100 Bidirectional data support • TRS-3100, RT-2100 (TRS-2100 or EPIC 2100), RT-5100 (EPIC 5100), RT-1200, or RT-900 (Evolution) and one or a combination of the following: <ul style="list-style-type: none"> • LM-820A, LM-970 and LM-1200 Lensmeter • LM-990A Lensmeter* • LM-1000 /1000PLensmeter* (See Additional Information) • VL-3000 Spectrum Lensmeter • AR-600 Autorefractor/Keratometer • ARK20/ARK30 Autorefractor/Keratometer • ARK-510A and ARK-530-A Autorefractor/Keratometer* • ARK-560 Autorefractor/Keratometer with acuities • ARK-600 Autorefractor* • ARK-700A and ARK-710-A Autorefractor/Keratometer* • ARK-730A Autorefractor/Keratometer* • ARK-760A and ARK-9000 Autorefractor/Keratometer • KM-500 Autoreferactor/Keratometer • MRT 2100/1200/5100/TRS3100/900 Phoropter • NT2000-CM Tonometer • RKT-7700/Tonoref II Autorefractor/Keratometer/ Non-Contact Tonometer* (See Additional Information) • 3D Wave (ARK-10000 OPD Scan) Autorefractor/Keratometer • VL-3000CM Lensmeter • 900A Autorefractor/Keratometer 	<p>The following equipment are a Direct Integration as well as through Marco's Connect/Capture Software:</p> <ul style="list-style-type: none"> • LM-1000 Lensmeter • RKT-7700/Tonoref-II Autorefractor/ Keratometer/Non-Contact Tonometer <p>Direct Integration for other equipment listed.</p>	<p>The equipment listed in bold in the "Equipment" column is required for the maximEyes equipment integration.</p> <p>The equipment listed with an asterisk (*) will interface with maximEyes without a Marco digital refraction system.</p> <p>Marco RT-5100: The maximEyes equipment integration with model RT-5100 (EPIC 5100) will only import text data and will NOT capture images</p> <p>LM-1000 Lensmeter and RKT-7700/Tonoref II/ TRS-3100/ Bidirectional data support: You will need to install Marco's Connect software. Please contact a Marco sales representative if you have questions or issues with the Connect software.</p>
<p>Nidek www.usa.nidek.com</p>	<ul style="list-style-type: none"> • NAVIS-EX software <p>The following equipment/cameras are supported with NAVIS-EX software: Fundus Camera (AFC-210/230)</p>	<p>Direct Integration for all equipment listed.</p>	<p>You must install NAVIS-EX software before you can use the integration with maximEyes. Contact a Nidek representative for more details.</p>

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<p>Oculus www.oculus.de</p>	<ul style="list-style-type: none"> • Oculus Patient Data Management (PDM) software <p>The following Oculus instruments are supported with Oculus Patient Data Management (PDM) software:</p> <ul style="list-style-type: none"> • Keratograph • Twinfield • Centerfield • Synoptometer • Anomaloscope • Binoptometer • Binoptometer 3 • Mesotest ImageCam • Easyfield • Easygraph • Pentacam • Pachycam C-Quant and PeriVision 	<p>Direct Integration for all equipment listed.</p>	<p>You must install Oculus device software with Oculus Patient Data Management (PDM) software version 6.0 and above before you can use the integration with maximEyes. Contact a Oculus representative for more details.</p>
<p>OIS www.oisi.com</p>	<ul style="list-style-type: none"> • OIS Symphony Web <p>The following equipment/cameras are supported with OIS Symphony Web:</p> <ul style="list-style-type: none"> • Dicon Visual Field Analyzer • Epsilon VEP & PERG • Eyesys Corneal Topography • Heidelberg Retinal Angiograph • Heidelberg Retinal Tomograph • Heidelberg Spectralis • Humphrey Visual Field Analyzer • Laserdiagnostics GDx • IKC Technologies, UTAS-E 4000 • Octopus Automatic Perimeter • OptoVue OCT • OTI Spectral OCT/SLO • Orbscan Corneal Mapping Instrument • Nidek Microperimeter • Pentacam Scheimpflug Device • Quantel Cinescan • Reichert Ocular Response Analyzer • Talia Retinal Thickness Analyzer • Tomey TMS-3 Corneal Topography • Topcon Fourier Domain 3D OCT-1000 • VISX Wave Front Wave Scan 70771 • Zeiss Atlas Corneal Topography • Zeiss Cirrus OCT • Zeiss IOL Master (Windows XP) • Zeiss IOL Master (Windows 98) • Zeiss Stratus OCT • Zeiss Visante 	<p>Direct Integration with OIS Symphony Web.</p>	<p>You must configure OIS Symphony Web before you can use the integration with maximEyes. Contact an OIS representative for more details.</p>
<p>Optos www.optos.com</p>	<ul style="list-style-type: none"> • Optomap Retinal Exam 	<p>Integration through V2[®] Vantage Software.</p>	<p>The Optos Link imports annotations and diagnoses data and associates the image with a maximEyes exam record, when you use the V2[®] Vantage Software.</p>

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Optovue, Inc. www.optovue.com	<ul style="list-style-type: none"> ReVue software <p>The following equipment is supported with ReVue Software: RTVue OCT</p>	Direct Integration for all equipment listed.	You must install ReVue software before you can use the integration with maximEyes. Contact a Optovue representative for more details.
Reichert Instruments www.reichert.com	<ul style="list-style-type: none"> Non Contact Tonometer AT550 Non Contact Tonometer AT555 Lensmeter AL 500 	Direct Integration for all equipment listed.	
Synemed, Inc. www.synemed.com/eyescape/eyesoftware.html	EyeScape Advanced Imaging (compatible with version 7.6.1 and above only)	Direct Integration for all equipment listed.	<p>The following equipment/cameras are supported with Synemed EyeScape Advanced Imaging:</p> <p>Retinal Cameras:</p> <ul style="list-style-type: none"> Canon CR3, CR4, CR6 and Topcon NW3, NW5 models using Professional Camera Adapters (PCAs) Canon CR-DGi and CR-1 models with Canon Digital SLRs <p>Slit Lamp Cameras:</p> <ul style="list-style-type: none"> Digital video cameras that use the Windows DirectShow facilities NTSC and PAL video cameras using Integral Technologies "FlashBus" video frame grabbers Primary slit lamp camera is the ImagingSource C-Mount Firewire camera model DFK-31AF03, which is an XGA (1024x768), 30 FPS camera; an appropriate beam splitter is always required <p>For more information visit: www.synemed.com/EYESCAPE.html</p>
Tomey USA www.tomeyusa.com	<ul style="list-style-type: none"> Auto Lensmeter TL-2000B Topographer TMS-4 	Direct Integration for all equipment listed.	

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<p>Topcon Medical Systems www.topconmedical.com</p>	<p>CV-5000 Digital Refractor, CV-3000 Digital Refractor, or CV-2500 Digital Refractor and one or a combination of the following:</p> <ul style="list-style-type: none"> • CL-100 Lensmeter* • CL-200 Lensmeter* • CT-80 Tonometer* • KR-7000 Autorefractor/Keratometer* • KR-7000P Autorefractor/Keratometer* • KR-8000PA Autorefractor/Keratometer* • KR-8800 Autorefractor/Keratometer* • RM-7000 Autorefractor • RM-8000 Autorefractor • RM-8800 Autorefractor • Tonometer CT 20/80 <p>IMAGEnet2000/IMAGEnet 2000 Lite software</p> <p>The following equipment/cameras are supported with IMAGEnet 2000 and IMAGEnet 2000 Lite:</p> <ul style="list-style-type: none"> • IMAGEnet 2000: TRC-50 Series Retinal cameras with digital attachments (typically TRC-50X, TRC-50IA, TRC-50EX, TRC-50IX or TRC-50DX) and TCR NW7FS • IMAGEnet 2000 Lite: TRC-NW6S and TRC-NW8 (digital attachments will vary, but could be Sony or Nikon), TRC-NW300, TRC-NW200, DC1 and DC3 	<p>Direct Integration for all equipment listed.</p>	<p>The equipment listed in bold in the "Equipment" column is required for the maximEyes equipment integration.</p> <p>The equipment listed with an asterisk (*) will interface with maximEyes without a Topcon digital refraction system.</p> <p>Color Mapping Software: If you use Topcon's color mapping software to read data from Topcon's equipment, you may have to purchase additional equipment from Topcon before you can import the data from the Topcon equipment into maximEyes. Please speak with a Topcon representative or maximEyes technical support.</p> <p>IMAGEnet 2000/Lite: You must install IMAGEnet 2000 and IMAGEnet 2000 Lite software before you can use the integration with maximEyes. Contact a Topcon representative for more details.</p>

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<p>EyeRoute by Topcon Medical Systems www.topconmedical.com/EyeRoute</p>	<p>Images will only be available for the following equipment:</p> <ul style="list-style-type: none"> • Accutome A-Scan • Bausch & Lomb Orbscan • Clarity RetCam • COAS HD Wavefront Analyzer • Digital Healthcare Oculab • Escalon/MRP Ophthalmalvision • Heidelberg HRA2 • Heidelberg HRTII, HRT3 • I3 Ultrasound • Nidek MP1 • Nidek Confocal • Nidek 3DX • Nidek NonMyd • Oculus EasyField • OIS Winstation • Optikon Keratron • Optos Optomap • OTI OCT/SLO • OTI Ultrasound • Quantel Ultrasound • Sonomed Ultrasound • Talia RTA • Topcon ImageNet • Veris ERG • Visx WaveScan • Eximer Laser • Zeiss Stratus OCTIII 	<p>Direct Integration with EyeRoute.</p>	<p>EyeRoute is a Web-based image management solution; images can be accessed from a single web-based user interface. The software is fully HIPAA compliant and meets the highest network security requirements with high-end firewall protection.</p> <p>View online EyeRoute demos at: www.topconmedical.com/EyeRoute</p>
<p>Veatch Ophthalmic Instruments www.voi2020.com</p>	<ul style="list-style-type: none"> • Huvitz HDR-7000 Digital Refractor • Huvitz DRS-3100 Digital Refractor • Huvitz CDR-3100 Digital Refractor • Huvitz MRK-3100 Autorefractor/Keratometer • Huvitz MRK-3100P Autorefractor/Keratometer • Huvitz HRK-7000 Abberometer/Keratometer • Huvitz CLM-3000 Autolensometer • Huvitz CLM-3100 Autolensometer • Huvitz CLM-3100P Autolensometer • Huvitz CLM-4000 Autolensometer 	<p>The following equipment is available through Huvitz CDRmate software:</p> <ul style="list-style-type: none"> • Huvitz CDR-3100 Digital Refractor <p>The following equipment is available through Huvitz HDRmate software version 1.3:</p> <ul style="list-style-type: none"> • Huvitz HDR-7000 Digital Refractor <p>Direct Integration for other equipment listed.</p>	<p>Some models may require CDRmate or HDRmate software for the equipment to work. The software is available from Veatch Ophthalmic Instruments.</p>

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Woodlyn Ophthalmic Instruments and Equipment www.woodlynintl.com	<ul style="list-style-type: none"> • Canon R-F10 Full Auto Refractor • Canon RK-F1 Full Auto Refractor-Keratometer • Canon TX-F Full Auto Tonometer • Canon CRDGi Fundus Camera • Grand Seiko GL-7000 Lensometer • Medmont E-300 Corneal Topographer • Medmont E-700 Auto-perimeter • Woodlyn HD Slit Lamp Camera 	<p>The following equipment integrate through Medmont Studio 4 software:</p> <ul style="list-style-type: none"> • Canon CRDGi Fundus Camera • Medmont E-300 Corneal Topographer • Medmont E-700 Auto-perimeter • Woodlyn HD Slit Lamp Camera <p>Direct Integration for other equipment listed.</p>	<p>You will need to install Medmont Studio 4 software. Please contact Medmont Studio at www.medmont.com if you have questions or issues with the Medmont Studio 4 software.</p>

Additional Information

Cable Connections

- Make sure that you have a cable that **connects the data port** of the equipment **to the COM port** of the workstation (this is where the equipment data will be exported from).
- First Insight strongly recommends that you purchase the cable from the equipment manufacturer.
- The COM port should be available to the equipment link module. It **cannot** be in use by any third-party application.

Open Serial Port

- If you purchased the maximEyes Equipment Link module, make sure that your workstation includes an **“open serial port”** to accommodate **each** ophthalmic equipment connection (one port per piece of equipment).
- Equipment must connect to a physical serial port. For example, serial to USB adapters will not work.
- First Insight is not responsible for changing settings on ophthalmic equipment. Contact your equipment vendor for detailed instructions.

Digital Camera Images: Importing and storing images in a maximEyes patient record and/or patient encounter.

- Each digital image must be saved as a **.jpg/.bmp/.png/.gif/.tiff/.tif** format before you can import the image into MaximEyes SQL and link to a patient record and/or patient encounter. Contact your digital camera vendor to verify if you can save the images in **.jpg/.bmp/.png/.gif/.tiff/.tif** format.
- Detailed instructions on how to import (attach) a digital image in a maximEyes patient record are available on First Insight’s For Customers website at <http://customer.first-insight.com>. Once you login, click the **FAQs** tab and search for **“digital images.”** Or, contact First Insight’s technical support at 800.920.1940, Option 2.
- You do not need to purchase the maximEyes Equipment Link module to import/store digital camera images in a maximEyes patient record.