



IntelleChartPRO EHR and Practice+

Technical Requirements

Equipment Recommendations

Business Confidential

Revised: March 19, 2019

Confidentiality Notice: This document is for the sole use of the intended recipient(s) and may contain confidential and privileged information. This document is property of Nextech Systems LLC. and any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, or this information has been inappropriately forwarded to you, please contact the sender by reply e-mail and destroy all copies of the original. Thank you.

IntelleChartPRO EHR and Practice+

Table of Contents

IntelleChartPRO and Practice+ Technical Requirements 3

General Requirements..... 3

Minimum Requirements3

Administrative Users (Check-in/Check-out/Billing).....3

IntelleChartPRO Only Users.....4

Technicians/Nurses/Other Administrative Staff (Charting)4

Physicians (Drawing and Charting).....4

Network Connectivity..... 5

Internet Access5

Wireless (Wi-Fi)6

IntelleChartPRO Requirements 6

Special Installation Requirements.....6

Chrome with Windows Remix ClickOnce Installation Instructions.....6

Practice Letterhead Specifications7

Fax Support7

Diagnostic Imaging Equipment that produce images7

IntelleFile Specifications.....7

Third-Party Viewing Software.....8

Appendix A - Device Compatibility 9

Heidelberg.....9

Kowa9

Marco.....9

Nidek.....10

Oculus10

Optos10

Optovue11

Reichert.....11

Tomey11

Topcon11

Zeiss12

Misc.13

IntelleChartPRO EHR and Practice+

IntelleChartPRO and Practice+ Technical Requirements

Adhering to the following specifications will enable your practice to best utilize our web-based applications.

General Requirements

Minimum Requirements

The following is to be used as a guideline for all computers in the practice using IntelleChartPRO and Practice+. Specific recommendations will vary depending on clinic role. Be aware that Internet speed has the most impact on IntelleChartPRO and Practice+ running efficiently. Any operating systems or browsers not listed in this document are **not supported**. Running IntelleChartPRO and Practice+ in remote desktop, terminal services, Citrix, or any virtualized environment is not supported. IntelleChartPRO and Practice+ are browser based applications designed to run directly on the client machine.

- **Minimum RAM:** 8 GB
- **Minimum *available* hard drive space:** 10 GB
- **Recommended Processor:** Core i5 Gen 3 and above, or i7
- **Supported OS:** Windows 7 or newer with 64 Bit operating system **only**
- **Software Updates:** Latest Service Packs/Updates for the Windows Operating System
- **Microsoft .NET Framework:** version 4.5 and above with the latest updates for running IntelleFile, IntelleSign and IntelleDraw
- **Adobe Reader:** Version 11 or greater
- **Supported Browser:** Google Chrome (latest stable version)
- **Antivirus Software** on all computers with access to IntelleChartPRO or Practice+

Administrative Users (Check-in/Check-out/Billing)

- **Desktop or Laptop** meeting the *General Hardware Requirements* stated previously
- **Monitor:** Minimum 17" with 1280x800 pixel resolution
A second monitor is **highly recommended** for viewing of PM and EHR screens, 19" or larger monitor with 1280x800 pixel resolution
- **Printer** located at the Check Out area accessible from any computer on the network for printing prescriptions and patient records
- The following **Optional Equipment** can be used to improve clinic work flow
 - **Web Cam** for patient photos
Examples: Microsoft Life-Cam, creative Live-Cam, Logitech Webcam



IntelleChartPRO EHR and Practice+

- **Document Scanner** for scanning patient documents: WIA compatible, configured to save .jpeg, .tiff, or .pdf files on a local folder or network share. (Example: Fujitsu ScanSnap iX500 or other multiple page scanners)



- **Card Scanner** for scanning patient documents: WIA compatible, configured to save .jpeg, .tiff, or .pdf files on a local folder or network share. (Example: Ambir DS687 Duplex A6 ID Card Scanner or other similar double-sided card scanner)



- **(IntelleChartPRO Only)** Topaz Electronic Signature for signing consent forms
(Models: T-LBK460-HSB-R, T-LBK462-HSB-R)



IntelleChartPRO Only Users

Technicians/Nurses/Other Administrative Staff (Charting)

- **Desktop or Laptop** meeting the *General Hardware Requirements* stated previously
- **Touch Screen** is not required if using attached Signature Pad.
- **Monitor:** Minimum 17" with 1280x800 pixel resolution; Recommend 19" or larger with 1280x800 pixel resolution

Physicians (Drawing and Charting)

- **Tablet PC or Touch Screen Laptop** meeting the *General Hardware Requirements* stated previously. Business (not Consumer) computer models are recommended.
- Touch Screens are necessary for Drawing and Signing of Consent forms.
- Wireless mouse with scrolling capability and auto shut off feature.
- **An external monitor**, approximately 22" to 24" in size, is **strongly recommended** in exam rooms for patient education and viewing of images.

IntelleChartPRO EHR and Practice+



More specific comments may be made per practice and will be outlined after receiving a Site Assessment from the practice for each location.

Network Connectivity

Internet Access

<i># of Users Logged in at the Same Time</i>	<i>Minimum Bandwidth Down/Up *</i>	<i>Better Efficiency Down/Up*</i>
1-10	10/4 MBs	25/10 MBs
10-30	25/10 MBs	50/20 MBs
30-60	50/20 MBs	75/25 MBs
60+	75/25 MBs	150/25 MBs

**Minimum Bandwidth per Location for just Nextech Software*

- Bandwidth needs are increased if other office applications are utilizing network resources (Internet based Practice Manager, Telephone services, Internet Radio, Internet Billing, your practice's cellphone connected to your WiFi, etc.).
- Redundant internet connections from different ISPs are strongly recommended to reduce down time caused by Internet providers. Premium routers with automatic fail-over to backup connections are a must for minimal disruption, e.g. BGP.

IntelleChartPRO EHR and Practice+

- Wired connections will provide a more reliable connection and are strongly recommended where applicable.

Wireless (Wi-Fi)

- Comprehensive wireless LAN access, tested for signal strength in all areas of the clinic
 - Keep in mind that Wireless will not perform as well as wired connections and that all devices connected to Wireless will consume bandwidth.
- Consult with your local IT/Networking vendor to properly address the installation/placement of access points, security, additional LAN and power outlets and additional new equipment
- Wireless networks using 802.11B, G, or N can be disrupted by radio frequencies in the public domain, including microwaves and 2.4 GHz cordless phones. The presence of these types of devices should be carefully considered when configuring and testing a wireless network. Disabling the 2.4 GHz wireless networks will improve wireless connections.
- Wireless access is **not** recommended for Diagnostic equipment

IntelleChartPRO Requirements

Special Installation Requirements

Chrome with Windows Remix ClickOnce Installation Instructions

The IntelleDraw, IntelleFile and IntelleSign functions can be used on the Chrome browser by installing the Windows Remix ClickOnce extension. To do so, perform the following steps:

- Open the Chrome browser
- Go to Settings -> Extensions -> Get More Extensions
- Search for “ClickOnce” and select “Windows Remix ClickOnce”
- Click on “Add to Chrome”
- Click on “Add Extension,” then select “Open/Run the Installer”
- Upon completion, an “Installed Successfully” message will appear

IntelleChartPRO EHR and Practice+

Practice Letterhead Specifications

- Letterhead must be in the JPEG format
- Logo has to be 1024 pixels wide and up to 300 pixels in depth
- Footer and Header options are available
- A graphic artist is recommended to create and finalize your letterhead

Fax Support

Support for outbound faxing of referral letters from the IntelleChartPRO EHR is done using an internet based faxing service. The first 500 pages per month are free, .05 per page for all subsequent pages.

Diagnostic Imaging Equipment that produce images

- Connected to the network with Anti-Virus software installed
- DICOM is unsupported
- Configured to save image files in JPEG, TIFF or PDF format into a local folder or network share for uploading to patient charts. Video files cannot be uploaded to the patient file.
- Meet *General* requirements stated previously to run the IntelleChartPRO EHR locally.
- Diagnostic equipment running Windows 2000 will need to be upgraded to Service Pack 4
- **CAUTION:** any updates to another vendor's equipment should be first cleared with the vendor if the device is still under contract/warranty.
- Devices running Windows XP and older are no longer HIPPA compliant and must export reports/images to a shared folder then uploaded to the chart from a PC running Windows 7 or newer.
- Some equipment that may not be networkable can still upload images with the addition of image/printer capture equipment and software (some Visual Fields, IOL Masters, etc.)
- Nextech recommends that all diagnostic devices be hardwired to reduce instances of interference with report upload. See Wireless section above for more information.
- All equipment, software, upgrades, and connections must be in place before integration to insure completion of office setup.

IntelleFile Specifications

- All Devices running operating systems older than Windows 7 will need to export reports and images to a network shared folder, then upload to patient chart from a HIPPA compliant PC.
- Intellechart does not currently support DICOM.

IntelleChartPRO EHR and Practice+

- Intellechart currently only has the ability to store static images from PDF, JPEG, and Tiff files. Video cannot be upload to the patient file.
- Intellechart recommends that all diagnostic devices be hard wired for less instance of interference in report upload. Wireless can interfere with upload.
- All equipment, software, upgrades, and connections must be in place before integration to insure completion of office set up.

Third-Party Viewing Software

For third-party viewing software, the user needs to save image files in JPEG, TIFF or PDF format into a local folder or network share for uploading to patient charts. In these cases, devices that are currently connected to the third-party software will not be reconfigured. This applies to the following viewers:

- Zeiss Forum
- Sonomed Axis
- OIS Digital Review
- Optos Advance
- Heidelberg Viewer
- Nidek Viewer
- Merge
- SRS

Appendix A - Device Compatibility

THIS LIST IS SUBJECT TO REVISIONS OR UPDATES.

Heidelberg

Model	Integrate	Requirements	Onsite/Remote
HEP	Yes	Networked Export to Share If XP	Remote
HRT	Yes	Networked Export to Share If XP or Older	Remote
Spectralis OCT/FA/ICG	Yes	Networked Export to Share If XP	Remote

Kowa

Model	Integrate	Requirements	Onsite/Remote
Fundus Cameras	Yes	Networked Export to Share If XP	Remote
Non-Myd Cameras	Yes	Networked Export to Share If XP	Remote
VX Retina Cameras	Yes	Networked Export to Share If XP	Remote

Marco

Model	Integrate	Requirements	Onsite/Remote
AFC-330 Camera	Yes	Networked Export to Share	Remote
AR(K) Refractors	Yes	Marco Cable with Attached PC	Onsite
ARK-1 (S or A)	Yes	Marco Cable with Attached PC	Onsite
Epic RT2100	Yes	Marco Cable with Attached PC	Onsite
Epic RT5100	Yes	Marco Cable with Attached PC	Onsite
Handy Ref	No		
LM Auto Lens	Yes	Marco Cable with Attached PC	Onsite
MS ARK	Yes	Marco Cable with Attached PC	Onsite
NT 510	No		
OPD II	Yes	Networked for export of corneal map to network shared folder then uploaded from PC. For refraction data, need cables from Marco (\$270, RS232 to USB and "pigTail") connected to a dedicated attached PC with Internet access	Onsite

IntelleChartPRO EHR and Practice+

Model	Integrate	Requirements	Onsite/Remote
OPD III	Yes	Networked for export of corneal map to network shared folder then uploaded from PC. For refraction data, need cables from Marco (\$270, RS232 to USB and "pigTail") connected to a dedicated attached PC with Internet access	Onsite

Nidek

Model	Integrate	Requirements	Onsite/Remote
RS-3000 OCT	Yes	Networked to shared Folder	Onsite
AFC-210/230 Camera	Yes	Attached PC needs Network Connection, export to shared folder	Remote
AL-Scan	Yes	Networked to shared Folder	Onsite
CEM-530 Spec Micro	Yes	Networked to shared Folder	Onsite
ConfoScan4	Yes	Attached PC needs Network Connection, export to shared folder	Remote
Magellan Mapper	Yes	Networked to shared Folder	Remote
MP MicroPerimeter	Yes	Networked to shared Folder	Remote
Non-Myd Camera	Yes	Networked to shared Folder	Remote

Oculus

Model	Integrate	Requirements	Onsite/Remote
Centerfield	Yes	Attached PC with Internet Access	Remote
Easyfield C	Yes	Attached PC with Internet Access	Remote
Kertograph	Yes	Attached PC with Internet Access	Remote
Pentacam	Yes	Networked with Internet Access	Remote
Twinfield	Yes	Attached PC with Internet Access	Remote

Optos

Model	Integrate	Requirements	Onsite/Remote
California	Yes	Networked, need paperwork for integration and Help from Optos	Remote
Daytona	Yes	Networked, need paperwork for integration and Help from Optos	Remote

IntelleChartPRO EHR and Practice+

Optovue

Model	Integrate	Requirements	Onsite/Remote
AngioVue	Yes	Networked, export to shared folder	Remote
Avanti	Yes	Networked, export to shared folder	Remote
iScan OCT	Yes	Networked, export to shared folder	Remote
OCT iVue	Yes	Networked, export to shared folder	Remote

Reichert

Model	Integrate	Requirements	Onsite/Remote
AL 200	Yes	USB cable to dedicated PC with Internet Access	Onsite
KR Auto Refract	Yes	USB cable to dedicated PC with Internet Access	Onsite
LensChek	Yes	USB cable to dedicated PC with Internet Access	Onsite
OptoChek	Yes	USB cable to dedicated PC with Internet Access	Onsite
ORA G3	No		
Reflex B Scan	Yes	Connected to local Network, export still images to network folder	Remote
RM Auto Refract	Yes	USB cable to dedicated PC with Internet Access	Onsite
Tono Pen	No		

Tomey

Model	Integrate	Requirements	Onsite/Remote
Casia2 OCT	Yes	Networked, export to network shared folder	Remote
EM3000 Spec Micro	Yes	Connected to a PC with Internet Access. PC must have Data Transfer software from Tomey.	Remote
RT-7000 Refractor	Partial, Corneal Map only	Tomey Cabled to a dedicated PC with Internet Access and Tomey Software	Onsite
TMS-4 Topo	Yes	Tomey Cabled to a dedicated PC with Internet Access	Remote

Topcon

Model	Integrate	Requirements	Onsite/Remote
Aladdin	Yes	Attached PC with Topcon software	Remote

IntelleChartPRO EHR and Practice+

Model	Integrate	Requirements	Onsite/Remote
CA-800 Topo	Yes	Networked, Export data to PC	Remote
CL Lensmeters	Yes	Topcon Cable to dedicated PC	Onsite
CT-80 Tono	No		
CV-5000S System	Yes	Topcon Cable to dedicated PC	Onsite
EZ200 LM	Yes	Topcon Cable to dedicated PC	Remote
KR Auto Refract	Yes	Topcon Cable to dedicated PC	Onsite
KR-1W Wavefront	Yes	Networked, Export data to PC	Remote
KR-800S	Yes	Networked, Export data to PC	Onsite
Maestro 3D OCT	Yes	Networked with Internet Access	Remote
RM Auto Refract	Yes	Topcon Cable to dedicated PC	Onsite
SP-1P Spec Micro	Yes	Networked, Export data to PC	Remote
TRC Series Cameras	Yes	Networked Export to Share If XP	Remote

Zeiss

Model	Integrate	Requirements	Onsite/Remote
599 Refractor	No	Not able capture data from COM port	
Acuitus ARKs	No	Serial Port Turned OFF	
Atlas 9000	Yes	Networked Export to Share If XP	Remote
Atlas 995	Possible	Networked Export to Share, Win 95 is a NO	Onsite
Avante OCT	Yes	Networked with Internet Access	Remote
Cameras	Yes	Networked Export to Share	Remote
Cirrus 4000	Yes	Networked Export to Share If XP	Remote
Cirrus 5000	Yes	Networked with Internet Access	Remote
Cirrus Photo	Yes	Networked Export to Share	Remote
FTD	No	Not able to produce PDF or JPEG	
GDX	Yes, Redtitan Solution	3rd Party device and attached PC	Onsite
HFA 3 Series	Yes	Networked Export to Share	Remote
HFA II 700 Series	Yes, Redtitan Solution	3rd Party device and attached PC	Onsite
HFA II 700i Series	Yes	Networked Export to Share	Remote
IOL Master 5.4	Yes	Networked Export to Share, if not LAN then Redtitan	Onsite or Remote
IOL Master 500	Yes	Networked Export to Share	Remote

IntelleChartPRO EHR and Practice+

Model	Integrate	Requirements	Onsite/Remote
IOL Master 700	Yes	Networked Export to Share	Remote
iProfiler	Yes	Networked Export to Share; Corneal Map only	Onsite
Lensmeters	No	Not able capture data from COM port	
Matrix	No	No Digital output	
Stratus 3000	Yes	Networked Export to Share	Remote
Visante	Yes	Networked Export to Share	Remote
Visucam	Yes	Networked Export to Share	Remote
Visupac	Yes	Networked Export to Share If XP	Remote

Misc.

Manufacturer	Model	Integrate	Requirements	Onsite/Remote
Abbott	iDesign	No	Manufacturer will not allow	
Abbott	Wavescan	No	Manufacturer will not allow	
Accutome	A Scan Plus(USB)	Yes	Attached PC with Internet Access	Remote
Accutome	B Scan Plus(USB)	Yes	Attached PC with Internet Access	Remote
Accutome	UBM Plus(USB)	Yes	Attached PC with Internet Access	Remote
Accutome	Synergy A-Scan	No	No Digital Output, either Print/Scan or can save on USB flash drive and then upload to chart	
Alcon	Verion	Yes	Attached PC with Internet Access	Remote
Allegro	Vario	Yes	Attached PC with Internet Access	Remote
B & L	Orb Scan	Yes	Networked Export to Share	Onsite

IntelleChartPRO EHR and Practice+

Manufacturer	Model	Integrate	Requirements	Onsite/Remote
B & L	Zy Wave	Yes	Networked Export to Share	Onsite
Canon	Cameras with PC	Yes	Networked Export to Share if XP	Remote
CenterVue	Compass	Yes	Networked Export to Share	Remote
DGH	Scan Mate 8000	Yes	Networked Export to Share if XP	Remote
DGH	Pachette2	No		
Diopsys	Nova VEP/ERG	Yes	Networked Export to Share if XP	Remote
DRS	CenterVue	Yes	Networked Export to Share	Remote
DRS	Maia	Yes	Networked Export to Share	Remote
Ellex	Eye Cubed	Yes	Networked Export to Share	Remote
Goldman	VF	No	No Digital Output	
Haag-Streit	Octopus VF	Yes	Attached PC with Internet Access	Remote
Haag-Streit	Lenstar	Yes	Attached PC with Internet Access	Remote
Hai Labs	Specular Microscope	Yes	Attached PC with Internet Access	Remote
Humphrey	ARK or LM	No		
Ioptics	Cassini	Yes	Networked Export to Share	Remote
Konan	Spec Microscope	Yes	Attached Laptop needs Internet Access	Remote
Konan	Cell Chek	Yes	Attached Laptop needs Internet Access	Remote
Konan	RETeval	Yes	PC with device dock networked	Remote

IntelleChartPRO EHR and Practice+

Manufacturer	Model	Integrate	Requirements	Onsite/Remote
			with Internet Access	
Quantel	Aviso A/B/UBM Scan	Yes	Networked Export to Share	Onsite
Quantel	Axis ii	Yes	Networked Export to Share	Onsite
Quantel	Compact Touch	Yes	Networked Export to Share	Onsite
Righton	K+ Refractors	No		
Sonomed	A or B Scan	Possible, age dependent	Cable and software from Sonomed to dedicated PC with Internet Access	Onsite
Sonomed	VuPad	Yes	Networked Export to Share	Remote
TearScience	Lipi Flow	No	No Digital Output	
TearScience	Lipi View	Yes	Attached PC with Internet Access	Onsite
TearScience	Lipi Scan	Yes	Attached PC with Internet Access	Onsite
Tracey	Itrace	Yes	Networked	Remote
Visometrics	HD Analyzer Accutarget	Yes	Attached Laptop needs Internet Access	Remote
Visx	WaveFront/Scan	No	Manufacturer will not allow	
Zeimer	Galilei G4	Yes	Attached PC with Internet Access	Remote
Various Manufacturer	Slit Lamp Cameras	Yes	Attached to Networked PC	Remote
Various Manufacturer	Lasers/Lasik	No	No Digital Output	
Various Manufacturer	Accuity Devices	No	No Digital Output	