### COMPANY | MODEL | ARTIFICIAL INTELLIGENCE FINAL RX | LM/IA SUB-LAMINATED COMPARISON | ADJUSTABLE CONFIGURATIONS FOR NEAR AT VARIABLE WORKING DISTANCE | AUTOMATIC INPUT OF YA | CHART LINKAGE | AUTOMATIC ALIGNMENT/PROJECTION SYSTEM | ADDITIONAL FEATURES
--- | --- | --- | --- | --- | --- | --- | --- | ---
Marco | EPIC | yes | yes | yes | yes | yes | yes | Compact refraction system; has a footprint of 22 sq. ft.; reduces refraction time; delegation tool; split prism Jackson cross; integrates wavefront data into subjective refraction; adjustable motorized table; color touch screen that can be turned to patient for visual acuity education tool; can be networked into paperless EMR systems.
Marco | TRS-5100 | yes | yes | yes | yes | yes | no/yes | Compact refraction system used in a traditional lane; reduces refraction time; delegation tool; split prism Jackson cross; can be networked into paperless EMR systems.
Marco | TRS-3100 | no | yes | yes | yes | yes | no/yes | Wireless & compact refraction system used in a traditional lane; reduces refraction time; can be networked into paperless EMR systems.
Right Medical | Remote Vision | no | yes | yes | yes | n/a | n/a | Cordless remote control for optimal flexibility; speedy lens changes; quiet operation; programmable – up to 3 programs; full component of accessories.
Yapcon Medical Systems | CV-5000 Refraction System | suggested final Rx provided | yes | yes | yes | yes | no | Incorporates color-coded cylinder refinement aids with traditional Jackson cross or split prism; can be integrated with Tapcon auto refractors, auto projectors, Visichart and M&K Smart System as well as many popular EMR systems; automated patient positioning features with the EXAM-5000O dark system.

### COMPANY | MODEL | ALIGNMENT SYSTEM | VISUAL ACUITY | GLARE TESTING | KERATOMETER | ADDITIONAL FEATURES
--- | --- | --- | --- | --- | ---
Cassin Medical Systems | RK-F1 Full-auto Ref-keratometer | fully automated, just press start | no | no | yes | Simultaneous display of reference retro-illuminated image; 2.5-mm minimum pupil size required; corneal diameter measurement; peripheral K reading; PVDU & XLS, RS232C data output.
Marco | ARK-520A auto-keratometer/kerafractor | auto align, auto fogging, auto tracking, pupil | no | no | yes | Corneal mark detection; virtual vision comparison; corneal size measurements; Eye-tracking system; photoscopic/pupil size measurement; measurement range: 500 to +200; interfaces with EPIC, TRS & Oculis.
Marco | ARK-560A auto-keratometer/kerafractor | auto align, pupil; infrared minor alignment, auto fogging | no | no | no | Auto-tracking/alignment/measurement; visual acuity; subjective refinement; corneal size measurement; pupil size measurements; spherical aberration of cornea; interfaces with EPIC, TRS & Evolution.
Marco | DPO Scan | auto align, pupil; infrared minor alignment, auto fogging | no | no | no | Automatic refractometer; topographic wavefront analyser; DPO, external DPO; pupillometry; retro-illumination image; wavefront & photoscopic display; stylus/pen; XP Color M1.5 GHz Processor; interfaces with EPIC, TRS & Evolution; Marco H-O Eye Exam; EMR-ready through Marco Connect.
Marco | ARK-520A auto-keratometer/kerafractor | auto align, pupil; infrared minor alignment, auto fogging | no | no | no | Automatic refractometer; topographic wavefront analyser; DPO, external DPO; pupillometry; retro-illumination image; wavefront & photoscopic display; stylus/pen; XP Color M1.5 GHz Processor; interfaces with EPIC, TRS & Evolution; Marco H-O Eye Exam; EMR-ready through Marco Connect.
Oculus | PAK1 Pachymeter/ Auto-Anterior Keratometer | joystick; wavefrontablation measurement | no | no | no | Calibration mark detection; retro-illumination; keratometer and into one slab and easy-to-use instrument; 4 scan modes; 2.5-mm minimum pupil size; 0.5” color LCD monitor, thermal printer; 600 pscopic/pupil size measurement; USB connections to integrated into EMR. Dimensions: 20” x 10” x 21”.
Tracey Technologies | RK700 Auto-Keratometer | joystick, automatic alignment and auto measurement, eye tracking | n/a | n/a | n/a | Full color LCD screen, icon-based operating system & built-in printer; 2.5-mm minimum pupil diameter; RS232 interface & video output terminals; Auto-start function initiates measurements automatically when alignment is achieved. Equipped w/infrared power save turn off, Kerato-peripheral, Kerato and PD measurements.
Right Medical | RetinaTrace Hand Held Auto Refractor | hand-held; infrared minor alignment | no | no | no | Precise measurements; Super Quick mode for optimal pediatric measurements; 2.5-mm minimum pupil size, retroillumination to identify cataracts or irregularities in the optical system; memory function assists with small children; peripheral keratometry measurements; selectable modes for optimal performance.
Right Medical | RetinaTrace Hand Held Auto Refractor | hand-held; infrared minor alignment | no | no | no | Precise measurements; Super Quick mode for optimal pediatric measurements; 2.5-mm minimum pupil size, retroillumination to identify cataracts or irregularities in the optical system; memory function assists with small children; peripheral keratometry measurements; selectable modes for optimal performance.
Right Medical | Speedy-1 Auto Refractor | joystick with automatic measurement | no | no | no | The fastest measurement times – 0.01 seconds; precise measurements; 2.5-mm minimum pupil size; medical grade keratometry; wireless data transfer to Remot Vision.
Right Medical | Speedy-2 Auto Refractor | joystick with automatic measurement | no | no | no | The fastest measurement times – 0.01 seconds; precise measurements; 2.5-mm minimum pupil size; medical grade keratometry; wireless data transfer to Remot Vision.
Tracey Technologies | RK-5000 AutoRefraction Keratometer | fully automated eye-tracking system | yes | no | yes | Fully automatic touch-screen operation; calculates pupillary distance, high-speed built-in printer; power chin-rest; 0.3-second measurement time or less; provides contrast and ISOL mode.
Tracey Technologies | RK-7000 AutoRefraction Keratometer | fully automated eye-tracking system | yes | no | yes | Fully automatic touch-screen operation; calibration & ISOL mode; high-resolution color 19” display; 0.3-second measurement time; Myoskimmer stimulation, topographer & Dry eye software. List of contact lenses. Built-in computer & printer.
Tomey | RM-8900 Auto Kerato-Refraction Meter | joystick, infrared measurement | no | no | yes | 2-mm minimum pupil size; central K readings; color LCD display, auto fogging, retro-refraction system; built-in printer; interfaces with Tomoe auto lensmeter, CV-5000 refraction system, and today’s most popular EMR systems.
Tomey | RM-8900 Auto Kerato-Refraction Meter | joystick, infrared measurement | no | no | yes | 2-mm minimum pupil size; standard K readings; color LCD display, auto fogging, retro-refraction system; built-in printer; interfaces with Tomoe auto lensmeter, CV-5000 refraction system, and today’s most popular EMR systems.
Welch Allyn | 1401A Direct View Refractor | joystick with automatic measurement | no | no | no | 2-mm minimum pupil size, peripheral keratometry; optional color-mapping software available; central mapping measurements; cut to 0.2-mm; interfaces with Tomoe auto lensmeter; CV-5000 refraction system and today’s most popular EMR systems; fogging, auto-pupilometry; Placido ring technology.

All claims made by manufacturer.
**WAVEFRONT ABERROMETERS**

**Marco**
- **Model**: OPD Scan III
- **Measuring Principle**: dynamic spatial apluscopy
- **Method**: optical path difference
- **Number of Data Points**: 1,440
- **Point Spread Function**: yes
- **Internal OPD/Linear-Air Difference**: yes
- **Zernike Output**: WF Refraction & RMS value on thermal maps. Zernike map displays bar graphs, WF error & RMS values given.
- **Additional Features**: Topographer; wavefront analyzer; OPD; internal OPD; pupillometry; Angle Kappa; infrared illumination images; spherical aberration of cornea, mesopic & photopic pupil displayed; combined with automated phoropter performs the Marco H-D Eye Exam; EMR-ready through Marco Connect.

**Japanese Medical Systems**
- **Model**: KR-1W
- **Method**: Hartmann-Shack auto-focus, auto-capture, simultaneous measurement of 5 functions
- **Number of Data Points**: 2,209
- **Point Spread Function**: yes
- **Internal OPD/Linear-Air Difference**: yes
- **Zernike Output**: WF refraction at actual photopic and mesopic pupil size. 2000 vector maps. RMS values displayed at actual pupil size, 4mm and 6mm.

**Tracey Technologies, Corp.**
- **Model**: TraceWorkstation Visual Function Analyzer
- **Method**: Infrared laser ray tracking
- **Number of Data Points**: 256 rapid sequential points through 2-mm to 8-mm pupils
- **Point Spread Function**: yes
- **Additional Features**: Including multizonal Zernike displayed as coefficients, bar graphs, and individual RMS or combined RMS terms. 5-in-1 functionality also includes corneal topography, auto-refraction without zone analysis for photopic and scotopic conditions, pupillometry and keratometry; 2-mm to 8-mm pupils PSF coefficients, bar graphs, binocular open-field fixation; accommodation volume; VFA Summary display with Analyzer open-field and Badal Optometer fixation; combined RMS terms Zaldivar Toric Caliper, Angle Kappa/Angle Alpha measurement and Chang Analysis; computer independent.

**PERIMETERS**

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>MODEL</th>
<th>STIMULUS</th>
<th>AREA OF FIELD</th>
<th>STANDARD TESTS</th>
<th>PRINTER</th>
<th>TEST STRATEGIES</th>
<th>ADDITIONAL FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carl Zeiss Meditec</td>
<td>Humphrey Analyzer 3000 Model 730</td>
<td>Goldmann std. proj. size I, II, III, IV, V. Hei-Krauss fixation monitor &amp; video-eye monitor</td>
<td>90°</td>
<td>threshold: 5 central, 1 peripheral; pattern: 4 screening central; 3 full-field peripheral patterns</td>
<td>built-in thermal; can be hooked up to HP Laserjet</td>
<td>threshold: SITA, FastPac</td>
<td>New with VFI, EasyConnect and HRA-HEQ Pro standard. Computerized silent projection system; reduces threshold testing by up to 75%. 12 test patterns w/age-related threshold &amp; screening strategies to 90º. STATPAC2 software compares results with matched normative data. CRT screen; accessible table w/built-in printer available. DICOM Gateway compatible (optional). HRA-HEQ Pro comes with the capability to connect to FORUM Data Management system. FORUM allows real-time viewing of reports or images from supported networked ZEISS and non-ZEISS instruments. FORUM supports bi-directional workflow for supported DCM-enabled devices, reducing charting errors and increasing patient throughput. Additionally, HRA when utilized with FORUM, enables the archiving of raw data, automatic backup after every exam and the creation of combination structure function reports with Cirrus HD-OCT.</td>
</tr>
<tr>
<td>Carl Zeiss Meditec</td>
<td>Humphrey Analyzer 4000 Model 740</td>
<td>Goldmann std. proj. size I, II, III, IV, V. Hei-Krauss fixation monitor &amp; video-eye monitor, gaze tracking</td>
<td>90°</td>
<td>threshold: 4 central, 2 peripheral; pattern: 5 screening central, 1 full-field peripheral; pattern: 7 full-field peripheral patterns</td>
<td>built-in thermal; can be hooked up to HP Laserjet</td>
<td>threshold: SITA, FastPac</td>
<td>New with VFI, EasyConnect, Guided Progression Analysis (GPA) and HRA-HEQ Pro standard; 19 test patterns, user-designed custom testing w/39º, 79º, and 125º patterns; provides true reliability assessment of the patient’s condition without disrupting testing. Built-in 48 GB data storage; compares multiple STATPAC results via print-out. Goldmann IV threshold testing; red-light testing, custom testing available; built-in VGA monitor; tracking of supported networked ZEISS and non-ZEISS instruments. FORUM supports bi-directional workflow for supported DCM-enabled devices, reducing charting errors and increasing patient throughput. Additionally, HRA when utilized with FORUM, enables the archiving of raw data, automatic backup after every exam and the creation of combination structure function reports with Cirrus HD-OCT.</td>
</tr>
<tr>
<td>Carl Zeiss Meditec</td>
<td>Humphrey Analyzer 4000 Model 750</td>
<td>Goldmann std. proj. size I, II, III, IV, V. Hei-Krauss fixation monitor &amp; video-eye monitor, head tracking; vertex monitor, gaze tracking</td>
<td>90°</td>
<td>threshold: 4 central, 2 peripheral; pattern: 5 screening central, 1 full-field peripheral; pattern: SDA Kinetic</td>
<td>built-in thermal; can be hooked up to HP Laserjet</td>
<td>threshold: SITA, FastPac</td>
<td>Includes all features of 740i, STATPAC for blue/yellow perimeter. DCM Gateway compatible (optional). HRA-HEQ Pro comes with the capability to connect to FORUM Data Management system. FORUM allows real-time viewing of reports or images from supported networked ZEISS and non-ZEISS instruments. FORUM supports bi-directional workflow for supported DCM-enabled devices, reducing charting errors and increasing patient throughput. Additionally, HRA when utilized with FORUM, enables the archiving of raw data, automatic backup after every exam and the creation of combination structure function reports with Cirrus HD-OCT.</td>
</tr>
<tr>
<td>Carl Zeiss Meditec</td>
<td>Humphrey Field Analyzer II Model 730</td>
<td>Humphrey Visual Field with frequency doubling</td>
<td>30°</td>
<td>screening: C-20 full threshold: C-20, N-30</td>
<td>n/a</td>
<td>n/a</td>
<td>Forward screen — 45 second; 4-minute threshold; 19 lbs.; easy to use, age-related normative database.</td>
</tr>
<tr>
<td>Carl Zeiss Meditec</td>
<td>Humphrey Matrix Visual Field Instrument with frequency doubling</td>
<td>Humphrey Matrix Visual Field</td>
<td>30°</td>
<td>screening: N-5, 24-2 thresholds: N-5, F, 24-2 FDT, 30-2 FDT, 60-12 FDT, 24-2 threshold: N-5, F, 24-2 FDT, 30-2 FDT, 60-12 FDT external 6.5 x 11 color printer</td>
<td>n/a</td>
<td>n/a</td>
<td>Forward screen — 45 second; 2008 HD, 62 Hz; floppy drive, external keyboard, small footprint, statistical analysis w/age-related normative database; aerial field, video eye monitoring, no eye patch needed, no trial lens needed out to ± 3.00D, ambient light testing.</td>
</tr>
<tr>
<td>Carl Zeiss Meditec</td>
<td>SITA SLO</td>
<td>SLO SLO</td>
<td>n/a</td>
<td>threshold: simple field analysis report</td>
<td>n/a</td>
<td>n/a</td>
<td>24-2</td>
</tr>
</tbody>
</table>
Diagnostic thresholds for glaucoma Perimeter controlled by TOP (tendency oriented Automatic pupil measurement; automated lens holder; stimuli presentations are diabetes; blepharoptosis; multiple software provided for long-term storage; eye; dynamic; normal - all Auto-export of PDF, jpg or png files. Simple drag/drop functionality for patient data management. Easily import existing HRA data (700 series) into Eyefinity. Aims to provide HRA style printout. Automatic pupil measurement; automated lens holder; stimuli presentations are 0pnd adaptive to patient response; can be used with Top 9000 or 10000 series; includes dynamic, standard, and Flicker. Easily import existing HRA data (700 series) into Eyefinity. Aims to provide HRA style printout. Automatic pupil measurement; automatically oriented Automatic pupil measurement; automated lens holder; stimuli presentations are diabetes; blepharoptosis; multiple software provided for long-term storage; eye; dynamic; normal - all Auto-export of PDF, jpg or png files. Simple drag/drop functionality for patient data management. Easily import existing HRA data (700 series) into Eyefinity. Aims to provide HRA style printout.
**Corneal Topographers**

**Number of Working Focusing Data Points**

- **CORNEAL TOPOGRAPHERS**
  - **Alignment System Pupillometry (Scotopic & Photopic) and White to White (HVID) Measurement**
  - **PathFinder II Corneal Analysis Software screens for 5**
  - **Technology DVD-ROM/ethernet/USB. ATLAS comes with the onboard functionality to connect to FORUM Data Management system. FORUM allows real-time viewing of topography and images from supported networked ZEISS and non-ZEISS instruments. FORUM supports additional software for supported CDROM-embedded devices, reducing charting errors and increasing patient throughput.**

- **Register Technologies**
  - **Ocular Response Analyzer**
    - **noncontact**
    - **Measures IOP and Corneal Hydration (H2O), the world’s first indicator of corneal biomechanical properties, and K/DPCs corneal compensated IOP, which is less affected by corneal properties than traditional methods of tonometry.**
**PACHYMETERS**

- **Accutome AccuPen III**
  - Desktop: 3.1 lbs.
  - Range: 300 to 999 microns
  - Power Source: Lithium battery
  - Features: Easy one-touch operation, auto data capture, advanced pattern recognition, automatic IOP adjustment, corneal waveform display, hi-res color LCD and touch screen controls, wireless print, upgradable to AP2000 (A-scan and pachymeter), ADA 200+ patient scans on single charge.

- **DOH Technology Inc. DSX 55 Pachmate**
  - Desktop: 1.4 lbs.
  - Range: 200 to 1100 microns
  - Power Source: Lithium battery
  - Features: Carrying case; extra batteries included; bilateral mode; totally portable.

- **Micro Medical Devices P3000 FastPach**
  - Handheld: 8 oz.
  - Range: 100 to 1200 microns
  - Power Source: Double rechargeable batteries
  - Features: Easy one-touch operation, auto data capture, advanced pattern recognition, automatic IOP adjustment, corneal waveform display, hi-res color LCD and touch screen controls, wireless print, upgradable to AP2000 (A-scan and pachymeter), ADA 200+ patient scans on single charge.

**BINOCULAR INDIRECTS**

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>MODEL</th>
<th>TYPE</th>
<th>SPOT SIZE</th>
<th>FILTERS</th>
<th>POWER SOURCE</th>
<th>PORTABILITY</th>
<th>ADDITIONAL FEATURES</th>
</tr>
</thead>
</table>
| Heine   | SIGMA 150 5-Frame Spectropec | Small & Large | Integrated red-free, cobalt blue, yellow and diffuse available | iPAX lithium ion portable power source | Yes with iPAX portable power source | Mounted to lightweight, fully adjustable 5-Frame — weighs a mere 5.2 oz. Variable pupil scope (for optimized views in pupils 10mm-7mm) with no presets, 8.4-inch frame for durability. Xenon halogen bulb offers a DR of 96 for accurate color rendering. 100% dust-proof.
| Heine   | SIGMA 150 K headmount | Small & Large | Integrated red-free, cobalt blue, yellow and diffuse available | Wired to stand, desk, wall-mount and iPAX portable power source | Yes with iPAX portable power source | Variable pupil scope for optimized views in pupils 10mm-7mm with no presets, carbon fiber frame for durability. Xenon halogen bulb offers a DR of 96 for accurate color rendering. 100% dust-proof.
| Heine   | SIGMA 150 KC headmount | Small & Large | Integrated red-free, cobalt blue, yellow and diffuse available | Wired to stand, desk, wall-mount and iPAX portable power source | Yes with iPAX portable power source | Variable pupil scope for optimized views in pupils 10mm-7mm with no presets, carbon fiber frame for durability. Xenon halogen bulb offers a DR of 96 for accurate color rendering. 100% dust-proof.
| Heine   | OMEGA 300 headmount | Small, Medium & Large | Integrated red-free, cobalt blue, amber and diffuse | Wired to stand, desk, wall-mount, iPAX Li-ion Portable Pack | Yes with iPAX Portable Power Pack | Variable pupil scope for optimized views in pupils 10mm-7mm with no presets, aluminum chassis-mounting for all optical components for durability. All features fully integrated. Xenon halogen bulb offers a DR of 96 for accurate color rendering. 100% dust-proof guarantee.
| Keeler Instruments | All Pupil 6 Wired headmount with exclusive headband dimmer control | Small, Medium | Built-in Ultraflex filter, red-free, diffuse | SmartPack Convertible (mobile, wall or desk in Wall Pack) | Yes with SmartPack | Halogen on LED Illumination. Lightweight, less than 500 grams, easy to use, brightness, PO range 47-75 mm.
| Keeler Instruments | All Pupil 7 Wired headmount with exclusive headband sizer control | Small, Medium & Large | Built-in Ultraflex filter, red-free, diffuse | Standard wireless system, with 2 lithium ion batteries and charging/docking station | Yes, 2 lithium ion batteries | Handgrip on LED Illumination. Lightweight, less than 500 grams, easy to use, brightness, PO range 47-75 mm.
| Keeler Instruments | All Pupil 8 Wired headmount with exclusive headband sizer control | Small, Medium & Large | Built-in Ultraflex filter, red-free, diffuse | 2nd generation slimline wireless system with 2 lithium ion batteries and charging/docking station | Yes, 2 lithium ion batteries | LED Illumination, Lightweight, less than 500 grams, easy to use, brightness, PO range 47-75 mm.
| Keeler Instruments | All Pupil 9 Wired headmount with exclusive headband sizer control | Large | Built-in Ultraflex filter, red-free, diffuse | DMX wired control | N/A | The choice for teaching and operating rooms. Integrated teaching mirrors on the left and right, variable pupil scope size, the slimline wireless design, PD range 47-75 mm.
| Keeler Instruments | Spectra Plus exclusive sport frame, available in red, light blue, dark blue, black | Large | Built-in Ultraflex filter, red-free, diffuse | Diffused light, DMX wired control | Yes, lithium ion battery | LED Illumination — cord free to use LED Illumination. Lightweight (less than 500 grams); easy to use; can be worn over glasses; PO range 47-75 mm.
| Keeler Instruments | Vantage Plus Convertible headmount with exclusive headband dimmer control | Intelligent optical system ensures best stenostopia on any setting - small pupil, medium and large | Custom Ultraflex filter, red-free, cobalt blue and diffuse | 2 options in 1: SmartPack Convertible (mobile, wall or desk in Wall Pack) | Yes with SmartPack | Convertible from natural LED to Xenon standard. LED optics with single-aperture spot size & convergence to maximum stenostopia. 10 mm Retina Lens to improve patient care and enhance visualization of the fundus. PO range 52 mm-76 mm.
| Keeler Instruments | Vantage Plus Convertible Slimline headmount with exclusive headband dimmer control | Intelligent optical system ensures best stenostopia on any setting - small pupil, medium and large | Custom Ultraflex filter, red-free, cobalt blue and diffuse | 2 options in 1: SmartPack Convertible (mobile, wall or desk in Wall Pack) | Yes with SmartPack | Convertible from natural LED to Xenon standard. LED optics with single-aperture spot size & convergence to maximum stenostopia. 10 mm Retina Lens to improve patient care and enhance visualization of the fundus. PO range 52 mm-76 mm.
| Kowa/Netz | IO-Alpha small pupil | Small (19 mm); med. (50 mm); large (80 mm) | Built-in Ultraflex filter, red-free, diffuse | Diffused light, DMX wired control | Yes, 1st and only digital ophthalmoscope with USB interface | Fully digital ophthalmic system. Not OLED-Angle. Versatile Video Plus LED Digital Wireless in your office, operating room, and teaching facility or anywhere you want to capture digital images. Continuous adjustable observation angle; teaching mirror; video capability.
**BIOCULAR INDIRECTS**

- **POWER SOURCE**
  - AC power - wall or desk-mount, portable, rechargeable battery pack
  - DC power - wall or desk-mount, portable, rechargeable battery pack

- **ADDITIONAL FEATURES**
  - Lightweight; halogen illumination.
  - Can be worn over prescription, safety or laser safety glasses; lightweight.
  - Can be worn over prescription, safety or laser safety glasses or as spectacles; lightweight.
  - Video-aligned optics for crystal clear views; lightweight; true small pupil capability; wireless lithium; yes; or wireless lithium; battery pack; lightweight.
  - USB - lithium rechargeable battery pack
  - Lithium rechargeable battery pack

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**RETAIL CAMERAS**

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<tr>
<th>COMPANY &amp; MODEL</th>
<th>TYPE OF VIEW</th>
<th>ANGI-OGRAPHY</th>
<th>NUMBER/TYPE OF VIEW</th>
<th>FIELD</th>
<th>FLASH STIMULUS</th>
<th>VIDEO CAPACITY</th>
<th>ADDITIONAL FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welch Allyn</td>
<td>12500 Headmount</td>
<td>Crystal Clear</td>
<td>45°</td>
<td>no; digital</td>
<td>1 USB</td>
<td>m/a</td>
<td>Full 45-degree retinal images; 2x magnification; 1/4 flash intensity of the CR-1; illuminated operation panel; survey; 3x digital magnification; video operation; 1.5 MP EOS digital camera back, optional imageSPECTRUM software; 1.0 MP EOS digital SLR camera back, 2x magnification and DCM software.</td>
</tr>
<tr>
<td>12500 Digital Headmount</td>
<td>Crystal Clear</td>
<td>45°</td>
<td>no; digital</td>
<td>1 USB</td>
<td>m/a</td>
<td>All-inclusive digital imaging system; full 45° retinal images; 2x magnification; 1/4 flash intensity of the CR-1; illuminated operation panel; survey; 3x digital magnification; video operation; 1.5 MP EOS digital camera back, 2x magnification and DCM software.</td>
<td></td>
</tr>
<tr>
<td>Systems Mark II Retina Camera</td>
<td>Crystal Clear</td>
<td>45°, 30°</td>
<td>yes</td>
<td>USB and Ethernet ports</td>
<td>n/a</td>
<td>n/a</td>
<td>Fully integrated imaging system that delivers the next generation of ophthalmic visualization, photo documentation and telemedicine - view images on your office computer, iPad, smartphone. Network ready - view images on your office computer, iPad, smartphone. All claims made by manufacturer.</td>
</tr>
<tr>
<td>Canon Medical Systems</td>
<td>FF450</td>
<td>Crystal Clear</td>
<td>45°</td>
<td>no; digital</td>
<td>1 USB</td>
<td>m/a</td>
<td>Digital Image Capture system based on relational databases for complete image management, documentation, propagation viewing and image enhancement; various high resolution digital sensor options and combinations; integrated report generator; Network ready and DCM compatible; supports digital telemedicine application.</td>
</tr>
<tr>
<td>Carl Zeiss</td>
<td>Carl Zeiss FF450</td>
<td>Crystal Clear</td>
<td>45°</td>
<td>no; digital</td>
<td>1 USB</td>
<td>m/a</td>
<td>Digital Image Capture system based on relational databases for complete image management, documentation, propagation viewing and image enhancement; various high resolution digital sensor options and combinations; integrated report generator; Network ready and DCM compatible; supports digital telemedicine application.</td>
</tr>
<tr>
<td>Zeiss Meditec</td>
<td>VISUCAM</td>
<td>Crystal Clear</td>
<td>45°</td>
<td>yes</td>
<td>USB and Ethernet ports</td>
<td>n/a</td>
<td>Digital imaging for most mydriatic fundus camera; 5 MP CCR sensor; calibrated measurement tools; Auto Eye-Map montage feature; DICOM-compliant; integrates with PACS and OphthaVision AXIS for side-by-side review of images from different modalities.</td>
</tr>
<tr>
<td>Heidelberg Engineering</td>
<td>Spectralis HRA</td>
<td>Crystal Clear</td>
<td>45°</td>
<td>yes</td>
<td>USB and Ethernet ports</td>
<td>n/a</td>
<td>Digital imaging for most mydriatic fundus camera; 11 MP CMOS sensor; calibrated measurement tools; Auto Eye-Map montage feature; DICOM-compliant; integrates with PACS and OphthaVision AXIS for side-by-side review of images from different modalities.</td>
</tr>
<tr>
<td>Optomed Inc.</td>
<td>HandHeld Fundus Camera</td>
<td>Crystal Clear</td>
<td>45°</td>
<td>yes</td>
<td>USB and Ethernet ports</td>
<td>n/a</td>
<td>Digital imaging for most mydriatic fundus camera; 6 MP CCR sensor for excellent image quality in a single configuration; calibrated measurement tools; Auto Eye-Map montage feature; DICOM-compliant; integrates with PACS and OphthaVision AXIS for side-by-side review of images from different modalities.</td>
</tr>
</tbody>
</table>
## RETINAL CAMERAS

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>MODEL</th>
<th>TYPE</th>
<th>FIELD OF VIEW</th>
<th>ANGIOGRAPHY</th>
<th>NUMBER/TYPE OF PORTS / DIGITAL INTERFACE</th>
<th>FLASH STIMULUS</th>
<th>VIDEO CAPACITY</th>
<th>ADDITIONAL FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nova Optics Inc.</td>
<td>Genesis- Handheld Fundus Camera</td>
<td>pickup w/ variable 30° horizontal</td>
<td>yes</td>
<td>1 primary port, USB 2.0 digital interface</td>
<td>n/a</td>
<td>no USB, digital only</td>
<td>Fluorescein angiography (FA) photography, compact flash memory, ITV monitor for precise review, color mydriatic systems, compact flash memory, EMR connectivity, DICOM, JPS and BMP export for telemedicine; connection to portable notebook computer as well as desktop.</td>
<td></td>
</tr>
<tr>
<td>Nova Optics Inc.</td>
<td>NonMyD Fundus Camera</td>
<td>compact, tabletop, nonmydriatic, color</td>
<td>nonmydriatic 45º/30º</td>
<td>yes</td>
<td>1 primary port, 1-6.1 digital interface</td>
<td>n/a</td>
<td>no USB, digital only</td>
<td>LCD monitor for alignment and focusing; small-pupil model; flash film exposure; nonmydriatic color photography; camera has internal working distance and focusing slots, with 3-W digital imaging system. EMR connectivity, DICOM, JPS and BMP export for telemedicine; offers connections for both patient notebooks and desktop computers.</td>
</tr>
<tr>
<td>Nova Optics Inc.</td>
<td>Alpha D B Re tinal Camera</td>
<td>compact, tabletop, nonmydriatic color</td>
<td>45º/30º</td>
<td>yes</td>
<td>1 primary port, 1 USB 2.0 digital interface</td>
<td>n/a</td>
<td>no USB, digital only</td>
<td>LCD monitor for alignment and focusing; small-pupil model; flash film exposure; nonmydriatic color photography; fluoroscein angiography (FA) photography; red-free photography; camera has internal working distance and focusing slots, with 3-W digital imaging system. EMR connectivity, DICOM, JPS and BMP export for telemedicine; offers connections for both patient notebooks and desktop computers.</td>
</tr>
<tr>
<td>Kowa Optics Inc.</td>
<td>VM-10X Two-In-One Retinal Camera</td>
<td>compact, tabletop, nonmydriatic color</td>
<td>60º/60º</td>
<td>yes</td>
<td>2 primary ports, digital interface</td>
<td>n/a</td>
<td>no USB, digital only</td>
<td>LCD monitor for alignment and focusing; small-pupil model; flash film exposure; nonmydriatic color photography; fluoroscein angiography (FA) photography; red-free photography; camera has internal working distance and focusing slots, with 3-W digital imaging system. EMR connectivity, DICOM, JPS and BMP export for telemedicine; offers connections for both patient notebooks and desktop computers.</td>
</tr>
<tr>
<td>Nidek</td>
<td>Mega pixel camera back digital only camera has internal working distance and focusing dots; with VK-2 digital imaging system, EMR connectivity, DICOM; JPG and BMP export for telemedicine.</td>
<td>compact; tabletop</td>
<td>nonmydriatic color 45º/27º</td>
<td>no</td>
<td>1 primary port, 1 USB 2.0 digital interface</td>
<td>n/a</td>
<td>n/a</td>
<td>The OIS EyeScan is the only portable imaging device that gives practitioners the ability to image both the anterior and posterior segment of the eye. With color retinal imaging, fluorescein angiography, stereo optic nerve head imaging, tear film, root rutile and topical fluorescein imaging modules, the OIS EyeScan is unmatched in quality and comprehensive imaging capabilities.</td>
</tr>
<tr>
<td>Optimed Inc.</td>
<td>digital Fundus Camera nonmydriatic color 45º/30º</td>
<td>digital; nonmydriatic color, compact, table top</td>
<td>n/a</td>
<td>yes</td>
<td>1 primary port, 1-6.1 digital interface</td>
<td>n/a</td>
<td>n/a</td>
<td>The OIS EyeScan is the only portable imaging device that gives practitioners the ability to image both the anterior and posterior segment of the eye. With color retinal imaging, fluorescein angiography, stereo optic nerve head imaging, tear film, root rutile and topical fluorescein imaging modules, the OIS EyeScan is unmatched in quality and comprehensive imaging capabilities.</td>
</tr>
<tr>
<td>Optimed Inc.</td>
<td>Alpha-D III</td>
<td>nonmydriatic color 45º/30º</td>
<td>n/a</td>
<td>yes</td>
<td>1 primary port, 1 USB 2.0 digital interface</td>
<td>n/a</td>
<td>n/a</td>
<td>The OIS EyeScan is the only portable imaging device that gives practitioners the ability to image both the anterior and posterior segment of the eye. With color retinal imaging, fluorescein angiography, stereo optic nerve head imaging, tear film, root rutile and topical fluorescein imaging modules, the OIS EyeScan is unmatched in quality and comprehensive imaging capabilities.</td>
</tr>
<tr>
<td>Optomed Inc.</td>
<td>3500</td>
<td>digital Fundus camera back digital only camera has internal working distance and focusing dots; with VK-2 digital imaging system, EMR connectivity, DICOM; JPG and BMP export for telemedicine.</td>
<td>compact; tabletop</td>
<td>nonmydriatic color 45º/27º</td>
<td>no</td>
<td>1 primary port, 1 USB 2.0 digital interface</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>RetCam</td>
<td>Essential</td>
<td>digital camera back digital only camera has internal working distance and focusing dots; with VK-2 digital imaging system, EMR connectivity, DICOM; JPG and BMP export for telemedicine.</td>
<td>compact; tabletop</td>
<td>nonmydriatic color 45º/30º</td>
<td>no</td>
<td>1 primary port, 1 USB 2.0 digital interface</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Topcon Medical Systems</td>
<td>TRC-NW300</td>
<td>digital fundus camera back digital only camera has internal working distance and focusing dots; with VK-2 digital imaging system, EMR connectivity, DICOM; JPG and BMP export for telemedicine.</td>
<td>compact; tabletop</td>
<td>nonmydriatic color 45º/30º</td>
<td>no</td>
<td>1 primary port, 1 USB 2.0 digital interface</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Topcon Medical Systems</td>
<td>TRC-5500c</td>
<td>digital Mydriatic Fundus camera back digital only camera has internal working distance and focusing dots; with VK-2 digital imaging system, EMR connectivity, DICOM; JPG and BMP export for telemedicine.</td>
<td>compact; tabletop</td>
<td>nonmydriatic color 45º/30º</td>
<td>no</td>
<td>1 primary port, 1 USB 2.0 digital interface</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

## RETINAL ACUITY METER

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>MODEL</th>
<th>DESIGN</th>
<th>ILLUMINATION</th>
<th>OPTICS</th>
<th>CALIBRATION</th>
<th>COMPONENTS</th>
<th>SPECIAL FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMA Optics Inc.</td>
<td>Retinal Acuity Motion-RAM</td>
<td>handheld; stand alone</td>
<td>High Illumination</td>
<td>COPT</td>
<td>Automatic; Conventional light</td>
<td>The RAM uses light, calibrated illumination, exact distance &amp; 1° minute intervals to accurately measure retinal acuity, assess macular function &amp; forecasts postoperative vision. Prevents unnecessary surgeries &amp; reduces unexpected poor outcomes. Reproducible &amp; easy.</td>
<td></td>
</tr>
</tbody>
</table>

## RETINAL SCANNERS

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>MODEL</th>
<th>TYPE OF LASER</th>
<th>FIELD OF VIEW</th>
<th>AREA OF RETINA ANALYZED</th>
<th>PRINTOUT DETAIL</th>
<th>ADDITIONAL FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioptron, Inc.</td>
<td>HMP SDOCT, Aladin hungry</td>
<td>840 nm SLD, standard or broadband</td>
<td>2° x 2°-60° x 60°</td>
<td>Full retinal thickness and NPLM, continuous 35 e-2 e-3 of retinal layers, vessel flow using Dopper</td>
<td>SDOCT image, study information</td>
<td>HMP SDOCT provides high-resolution, high-speed SDOCT imaging in a hand-held, robust, and easily transportable solution that is ideal for clinical, bedside, and operating room imaging. Advanced spectrometer design permits single-shot, full-field imaging of 17 frames per second. Standard resolution approaches 4.5 μm in tissue and the broadband option affords 3 μm ultra-high resolution imaging. Fully customizable scan geometry and dense sampling optimize imaging. Imaging, averaging, and scene-sparing increase scan speed and efficiency. Different scan modes can be combined with today’s most popular EMR systems.</td>
</tr>
<tr>
<td>Bioptron, Inc.</td>
<td>HMP SDOCT, Pediatric</td>
<td>840 nm SLD, standard or broadband</td>
<td>2° x 2°-70° x 70°</td>
<td>Full retinal thickness and NPLM, continuous 35 e-2 e-3 of retinal layers, vessel flow using Dopper</td>
<td>SDOCT image, study information</td>
<td>HMP SDOCT provides high-resolution, high-speed SDOCT imaging in a hand-held, robust, and easily transportable solution that is uniquely designed for pediatric imaging. Custom bore optics provide unparalleled resolution in perimetry, macula, retinas, irides, diabetes, children. Advanced spectrometer design permits single-shot, full-field mapping of 17 frames per second for fast alignment and imaging in uncooperative patients. Standard resolution approaches 4.5 μm in tissue and the broadband option affords 3 μm ultra-high resolution imaging. Fully customizable scan geometry and dense sampling optimize imaging. Imaging, averaging, and scene-sparing increase scan speed and efficiency. Different scan modes can be combined with today’s most popular EMR systems.</td>
</tr>
</tbody>
</table>

All claims made by manufacturer.
Retinal Scanners

Bioptigen, Inc. HHP SDOCT Model 400
- 840 nm superluminescent diode
- 38° x 30°
- Macula and retinal layers, single line
- Optic Nerve Head and RNFL
- Data from single macula cube scan provides high-resolution cross-line image, 30° layer map of EL and RPE, 30° retinal thickness map, 30° super line fundus image, OCT-HC fundus image with sweeping of thickness map in small area.
- Optic disc scan provides assessment of RPE and OHM with comparison to normative data.
- GPA analysis shows comparison of RPE, thickness measurements over time and indicates statistically significant change.
- Results show strong alignment, trend analysis and a quantifiable rate of change.

Carl Zeiss Meditec Cirrus HD-OCT Model 400
- 840 nm superluminescent diode
- 38° x 30°
- Macula and retinal layers, single line
- Optic Nerve Head and RNFL
- Data from single macula cube scan provides high-resolution cross-line image, 30° layer map of EL and RPE, 30° retinal thickness map, 30° super line fundus image, OCT-HC fundus image with sweeping of thickness map in small area.
- Optic disc scan provides assessment of RPE and OHM with comparison to normative data.
- GPA analysis shows comparison of RPE, thickness measurements over time and indicates statistically significant change.
- Results show strong alignment, trend analysis and a quantifiable rate of change.

Carl Zeiss Meditec Sensitivity OCT Model 400
- 820 nm superluminescent diode
- 26° vertical, 30° horizontal
- Macula and retinal layers, RNFL, and optic nerve head.
- Objective RNFL, retinal thickness, normative data comparison for RNFL, macula thickness, optic nerve head analysis window, cup x rim measurements & ratios.

Heidelberg Engineering Retina Module
- Cirrus HD-OCT Model 400
- 840 nm superluminescent diode
- 30° x 20°
- Macula and retinal layers, single line
- Optic Nerve Head and RNFL
- Retina and RNFL deviation map; thickness map; NFI score; TSNIT
- The simplest way to classify and manage the glaucoma patient with assessment of RNFL integrity. Operator independent, intuitive printout; no dilation required; less sensitive to variations in disc size than other instruments. Ideally suited for those specializing in glaucomas or building a glaucoma practice.

Meditec, Inc. 670 nm diode laser
- Heidelberg HRT3 with Confocal scanning 15° x 15°
- Optic nerve head; Comprehensive optic nerve analysis window; cup x rim measurements & ratios.
- Proprietary TruTrack™ Image Alignment Technology enables precise tracking over time, noise reduction, and widefield imaging.

Opko Spectral OCT/SLO
- 830 nm variable up to 300°
- Internal scan; up to 82% magnified; individual laser separations; image annotations enables image magnification; contrast, brightness and gamma adjustment; annotation, notes; individual laser gaze and even more with central pole detail, as well as 3D Wrap patient orientation and wellness examinations (20 microns) and optomap® plus medical retinal imaging (20 microns, 11 microns) with enhanced features supporting medically necessary reimbursable procedures.

Optos P200 scanning laser tomograph
- 830 nm superluminous diode
- Combined OCT & Scan and confocal SLO images with exact location of the OCT images on the SLO Fundus image. Combined topographic thickness report with up to 6 High resolution retinal 840° OCT images. "Auto-Compare" report of multiple topographic maps (progression/regression plot) including location of retinal thickness changes overlaid on the SLO Fundus image. High-resolution raster OCT scan and macula scan. Optic nerve head and RNFL analysis including over time "Auto-Compare" regression maps of multiple scans. User selected "customize reports."

Optos P200 scanning laser tomograph
- 830 nm superluminous diode
- Combined OCT & Scan and confocal SLO images with exact location of the OCT images on the SLO Fundus image. Combined topographic thickness report with up to 6 High resolution retinal 840° OCT images. "Auto-Compare" report of multiple topographic maps (progression/regression plot) including location of retinal thickness changes overlaid on the SLO Fundus image. High-resolution raster OCT scan and macula scan. Optic nerve head and RNFL analysis including over time "Auto-Compare" regression maps of multiple scans. User selected "customize reports."

All claims made by manufacturer
### Optovue

#### Retinal Scanners

- **200X**:
  - **Technology**: Low powered red (633 nm) and green (532 nm) lasers with standard gaze and gray scale detail views, ResMax mode for enhanced central separation views. Image overlay and auto review, auto archive, patient education tools, stereo imaging and 3D.
  - **Features**: Includes image enhancements, such as area of interest magnification, RNFL trend analysis, normative database reference coloring. 3D macula and 3D disc scans provide for 3D visualization, volume rendering, and en face imaging. Full 6mm diameter pachymetry mapping, color coded with minimum thickness marker, as well as user-defined central point thickness. Angle visualization with measurement. SD Corno.
  - **Applications**: Includes image enhancements, such as area of interest magnification, RNFL trend analysis, normative database reference coloring. 3D macula and 3D disc scans provide for 3D visualization, volume rendering, and en face imaging. Full 6mm diameter pachymetry mapping, color coded with minimum thickness marker, as well as user-defined central point thickness. Angle visualization with measurement. SD Corno.

#### Optos

- **Optovue 17**: 5 x 7 on face
  - **Technology**: Red, near retina, outer retina, anterior pole, posterior pole, macula, pachymetry map, angle measurement.
  - **Features**: Includes image annotations, such as area of interest, green laser scans from sensory retina to RPE, red laser scans from RPE to choroid. Optos proprietary review software includes internal scan; magnified; individual laser separations; image annotations & enables image magnification; contrast, brightness and gamma adjustment; annotation, notes; individual laser segmentation.
  - **Applications**: Includes image enhancements, such as area of interest magnification, RNFL trend analysis, normative database reference coloring. 3D macula and 3D disc scans provide for 3D visualization, volume rendering, and en face imaging. Full 6mm diameter pachymetry mapping, color coded with minimum thickness marker, as well as user-defined central point thickness. Angle visualization with measurement. SD Corno.

### Spacetec Medical Systems

- **360 OCT 2000**: 40 cm superluminescent diode
  - **Technology**: Over 500 scan options available, macula, posterior pole, retina with overlayed ETDRS thickness values. 7-line raster Optic nerve head scan calculates center of the disc for automatic placement of TSNIT. OCT data can be viewed on polaroid film or printed digitally. One-button auto adjustment for better image quality.
  - **Applications**: Upgradeable 3D macula and 3D disc scans glaucoma detection as well as asymmetry analysis.

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### CONTRAST SENSITIVITY TESTS

- **Company**: Marco
  - **Model**: SSC-350
  - **Type of Tester**: Air
  - **Alignment Monitor**: N/A
  - **Contrast Sensitivity Type**: 4 contrast levels on all available optotypes (Shaw, ETDRS, numbers, tumbling E and photopic luminance and Binocular glare; stereo, phorias, binocular balance children’s chart)
  - **Day/Night Target Illumination**: Yes, normal and low photopic luminance viewing conditions.
  - **Day/Night Glare Illumination**: Day & Night Monocular and Binocular glare, 3 glare levels.
  - **Additional Features**: Wireless remote control, 27 chart types: letter, numbers, tumbling “E”, ETDRS, color stereo, stereo, bar charts, color by single character, horizontal and the vertical line on all. Compatibility with ETS-TRC retinal ophthalmic system.

- **Company**: M&S Technologies Inc.
  - **Model**: M&S-6000 Halogen Automated Contrast Sensitivity System
  - **Type of Tester**: N/A
  - **Alignment Monitor**: N/A
  - **Contrast Sensitivity Type**: 300 chart options available, macula, posterior pole, retina with overlayed ETDRS thickness values. 7-line raster Optic nerve head scan calculates center of the disc for automatic placement of TSNIT. OCT data can be viewed on polaroid film or printed digitally. One-button auto adjustment for better image quality.
  - **Day/Night Target Illumination**: Yes, normal and low photopic luminance viewing conditions.
  - **Day/Night Glare Illumination**: Day & Night Monocular and Binocular glare, 3 glare levels.
  - **Additional Features**: Fully automatic system eliminates technician bias, includes Quick test program to report patient screening the next morning. Automatic data collection & export feature into M&S Data Right Services. Complies with ANSI & ISO standards, FDA guidelines. Fast test times 1 minutes per eye.

- **Company**: Ocukal
  - **Model**: Mesotest II
  - **Type of Tester**: Tests for mesopic vision and glare sensitivity. Important supplements to photopic vision testing, especially when right driving vision capibilities required assessment.
  - **Contrast Sensitivity Type**: 4 contrast levels without glare (4illumination: 0.032 cd/m2) and with glare (O°, 4illumination: 0.032 cd/m2) Luminet ring is in position for every contrast level.
  - **Day/Night Target Illumination**: Day & Night Monocular and Binocular glare, 3 glare levels.
  - **Additional Features**: Motor-operated test procedures. All tests are adjusted on a dust protected, high-resolution optical projector disc. The esotic viewing system is made of comfortable material. Innovative – no fogging up of spectacles or viewingviewport. Comfortable is designed in such a way that the results are unaffected by different interpupillary distances of patients.

- **Company**: Precision Vision
  - **Model**: Chart (Cat. No. 2129) Glare Filter
  - **Type of Tester**: N/A
  - **Alignment Monitor**: N/A
  - **Contrast Sensitivity Type**: Inter-chart correlation of 20/20 letter size at 13.7 ft, contrast determined by row in 0.25 logMAR steps.
  - **Day/Night Target Illumination**: Yes, includes normal & low photopic luminance viewing conditions.
  - **Additional Features**: Includes normal & low photopic luminance target saturated for higher luminance glare.

- **Company**: Precision Vision
  - **Model**: Portable Illuminated Cabinet (Cat. No. 3914)
  - **Type of Tester**: N/A
  - **Alignment Monitor**: N/A
  - **Contrast Sensitivity Type**: Multiple selection of high and low contrast charts separately.
  - **Day/Night Target Illumination**: Yes, includes normal & low photopic luminance viewing conditions.
  - **Additional Features**: Includes normal & low photopic luminance target saturated for higher luminance glare.

- **Company**: Precision Vision
  - **Model**: Retina Super Vison Chart (Cat. No. 2139)
  - **Type of Tester**: N/A
  - **Alignment Monitor**: N/A
  - **Contrast Sensitivity Type**: 8 different Log CS levels plus high contrast acuity
  - **Day/Night Target Illumination**: No glare
  - **Additional Features**: Developed by Jeff Rubin, OD, PhD, UCSF Eye (Har). Charts are useful in general practice and research.

- **Company**: Precision Vision
  - **Model**: ColorMatch Contrast Chart (Cat. No. 4071) and ColorMatch Contrast Chart (Cat. No. 4072)
  - **Type of Tester**: N/A
  - **Alignment Monitor**: N/A
  - **Contrast Sensitivity Type**: High contrast (black) & 25% White low contrast
  - **Day/Night Target Illumination**: No glare
  - **Additional Features**: Developed by August Caledonier, MD, this test provides high contrast targets on left-and-right contrast on the right for fast and effective contrast testing with uniform illumination and distance.

- **Company**: Precision Vision
  - **Model**: PAVT (Cat. No. 6031 – 6068)
  - **Type of Tester**: N/A
  - **Alignment Monitor**: N/A
  - **Contrast Sensitivity Type**: Highly adjustable contrast levels in 6 different optotypes captured or unadjusted in a single presentation. one line of ETDRS chart layout
  - **Day/Night Target Illumination**: Self-illuminated for use with or without lights
  - **Additional Features**: Precise calibration of contrast levels, brightness, sizes, and spacing in select- able projections; logmar ETDRS or traditional Snellen on a high-quality display/computer. Complies with ANSI & ISO standards.
CONTRAST SENSITIVITY TESTS

- **Interpretation:** Visual Acuity Software with Contrast Sensitivity testing
- **Screen:** ETDRS chart layout display calibrated for low-contrast testing
- **Calibration:** ANSI & ISO standards
- **Features:**
  - 3-choice, 5-frequency sine-wave (FACT) or day & night homogenous
  - Binocular glare testing
  - Distance/near lens system; new unsurpassed homogenous
  - Three low-contrast letters (CAT) illumination continually calibrated; new vision tester that complies w/ANSI & ISO standards;
  - 3-choice; 4 frequency sine wave
  - Calibrated light instrument (patented); new calibrated light box (patented)
  - Wireless remote control interfacing test faces, everything from contact printouts to pediatric systems; ETDRS accuracy.

COMPANY MODEL TYPE RANGE

**Visual Acuity Software**
- **Model:** Visual Acuity Software
- **Type:** Visual Acuity Software
- **Software:** With Contrast Sensitivity testing
- **Screen:** ETDRS chart layout display that is calibrated for low-contrast testing. Complies with ANSI & ISO standards.
- **Features:**
  - 3-choice, 5-frequency sine-wave (FACT) or day & night homogenous
  - Day & night binocular glare testing
  - Distance/near lens system; new unsurpassed homogenous
  - Three low-contrast letters (CAT) illumination continually calibrated; new vision tester that complies w/ANSI & ISO standards;
  - 3-choice; 4 frequency sine wave
  - Calibrated light instrument (patented); new calibrated light box (patented)
  - Wireless remote control interfacing test faces, everything from contact printouts to pediatric systems; ETDRS accuracy.

COMPANY MODEL TYPE RANGE

**Stereoptics**
- **Model:** Stereo Optical Optec 5000(P)
- **Type:** Stand-alone
- **Software:** Yes
- **Remote Control:** Wireless remote control; interchangeable test faces; everything included; can be recharged; built-in printer.

COMPANY MODEL TYPE RANGE

**Haag-Streit USA**
- **Model:** Goldmann Application Tonometer 30-900
- **Type:** Stand-alone
- **Software:** Yes
- **Remote Control:** Wireless remote control; interchangeable test faces; everything included; can be recharged; built-in printer.

COMPANY MODEL TYPE RANGE

**Kowa**
- **Model:** HA-2
- **Type:** Stand-alone
- **Software:** Yes
- **Remote Control:** Wireless remote control; interchangeable test faces; everything included; can be recharged; built-in printer.

COMPANY MODEL TYPE RANGE

**Keeler**
- **Model:** Pulsair Desktop Tonometer
- **Type:** Noncontact
- **Software:** Yes, weighs less than 9 lbs.
- **Remote Control:** Wireless remote control; interchangeable test faces; everything included; can be recharged; built-in printer.

COMPANY MODEL TYPE RANGE

**Reichert Technologies**
- **Model:** CT-100 Applanation Tonometer
- **Type:** Applanation
- **Software:** Yes
- **Remote Control:** Wireless remote control; interchangeable test faces; everything included; can be recharged; built-in printer.

COMPANY MODEL TYPE RANGE

**Topcon Medical**
- **Model:** CT-80
- **Type:** Noncontact
- **Software:** Yes, weighs less than 9 lbs.
- **Remote Control:** Wireless remote control; interchangeable test faces; everything included; can be recharged; built-in printer.

COMPANY MODEL TYPE RANGE

**Woodlyn Inc.**
- **Model:** #44000 R900
- **Type:** Applanation
- **Software:** Yes
- **Remote Control:** Wireless remote control; interchangeable test faces; everything included; can be recharged; built-in printer.

**All claims made by manufacturer**
Accutome
800-979-2020
610-889-3231 (fax)
www.accutome.com

AMA Optics Inc.
877-744-3937
tam@amaoptics.com
www.smaoptics.com

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919.314.3500
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www.biopigen.com

Canon Medical Systems
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925-557-4100 (fax)
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DGH Technology Inc.
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Ellex Inc.
800-824-7444
sales@ellex.com

Escalon Digital Solutions
(A Subsidiary of Escalon Medical Corp.)
800-676-0043
www.escalondigitalsolutions.com

EyeQuip
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www.eyesys.com

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Keeler Instruments
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Kowa Optimed Inc.
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Opto North America
800-834-3039
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Right Medical
888-226-6012
info@rightmedical.com
www.rightmedical.com

Sonomed Inc.
(A Subsidiary of Escalon Medical Corp)
800-227-1265
www.sonomed.com

Stereo Optical Co. Inc.
800-344-9100
771-777-2869 (International)
sales@stereoptical.com
www.stereoptical.com
www.functionalvisionanalyzer.com

Tech Optics International
856-795-8885
800-678-0002
info@techopticsinternational.com
www.techopticsinternational.com

Tomey USA
888-448-4045
www.tomeyuusa.com

Topcon Medical Systems, Inc.
800-223-1130
tmninfo@topcon.com
www.topconmedical.com

Tracey Technologies Corporation
877-672-2395
info@traceytech.com
www.traceytechnologies.com

VectorVision Inc.
800-326-7703
info@vectovision.com
www.vectovision.com

Visual Pathways Inc.
928-778-5002
admin@visualpathways.com
www.visualpathways.com

Volk Optical Inc.
800-345-8655
volk@volk.com
www.volk.com

Welch Allyn
800-351-6663
www.welchallyn.com

Woodlyn Inc.
800-335-7349
847-982-0045 (fax)
woody@woodlynintl.com

Ziemer Ophthalmic Systems
866-708-4490
618-251-9537 (Fax)
Pam.kaiser@ziemergroup.com
www.ziemergroup.com