

The American-Made All-in-One Visual Acuity System with 22" Screen (shown here with optional Glare Testing Lights)



9	ickKids	Con	new method for testing letter contr nparing MSS smart system II letter N. Chantrausari, V.A. Report, J. Copel, M. C Optimizing and False Sciences, The Respired	contrast last with Pelli-Robson o	hart e	
			Prote	ecol .	Results - con'd	
The main anterp pair denict has for being contrast exception (200 Februari and 200 Februari behavior) dRE charton for data including behaviors for measurement of 20 Februari completeness for anterpoint of 000000 to a next completeness of compared to the form parents advised of compared to the form of the behavior of compared to the form of the parents advised of compared to the behavior of the behavior of compared to the behavior of the behavior of a compared to the behavior of the behavior of the compared to the behavior of the behavior of the behavior of the compared to the behavior of the behavior of the the behavior of the behavior of the behavior of the behav			V R S K D R N H C S O K S O N O Z V	ZE	A second difference is uncertained due to supprivation in tags may programment between the methods Control & Size and Si	
			NOD VIEP		participants, indicating that MUELS is a called built for measuring CE and can be used as an	
Family Delayer				h	alternative is PR use time ultrical entire.	
Longer Investory			Figure 1: Add-follow that drawing processing destination of the second s	Figure 2: Series of Red Kill screek overs if 1.120 memory screeks processing control break with the	2. With a well collected mucher server, while	
and designed in			A share	With quark. The Math separate contraints (start)	provides reproducible, canadaters, good and	
Landa de la			Participants and all 1 is owned from chart with state			
			aligned in center of share.	A many find that an age propagate and it may be constructed and a many find that are a set of the s		
			Reported to read the latters starting from 10%			
Purpose			The WAS autorupe size of 1.5 legitids are chosen presented on PE chart of 1.6. The matter between a	to match the cloud angle sublended by the letters	References	
 To compare the use of MDEEE to PA shart as a closed text for CE. No hypothesized that MDEEE and PE shart will share unlike contrast sensitivity involvable. 			For both losis, periodyaria were required to read 21 loss CB Previous and determined.	1. Part Idi, Remon AJ, Hiller AJ, Tan Analysis I, J. Ana Markan Analysis and Standard Standard Internet Standard Standard Standards 1985 (Scholard). 1.65 Scholard BB, Scholards A, Ostaling A, Fan Muldelly of He Participation of the Standard Internet Standard Conference on Standard Internet Standard Standard Standard State Internet State State State State State State State State State State State State State Internet State State State State State State State State State State Internet State		

Miller I.			1. For sheady normal participants, mean			
Subjects: 154 participants (Heart age + 184)			targatit with W0000 and 1,04gat04 with PR and 1.45gat08 with the PR chait, chait,			
10 electry econart adjusts 101 partiells (Bernama, Ballatic Refregative, Recentinematicale I., Referite Representation, Durin Representation Representation, Durin Representation			Local dispersion between the local dispersion of the l	Land Land Local Distance (1)	Schliggen is result when Sacher in policies with well calend. Open Mr Sch 1980 November (2015).	
- bills viewing condition was randomized to PR or BR2 protocols			Sec. 50	······································		
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Smart System[®] 20/20 PROUDLY MADE IN THE U.S.A.

An Advanced Vision Testing System For Forward-Thinking Eyecare Professionals

The American-Made Smart System 20/20 computerized visual acuity and contrast sensitivity testing system offers the technological features needed to increase the quality of care you provide, streamline your practice and increase throughput.

Made in the USA with Pride - Designed and manufactured in Illinois, our 22" All-in-One System is precisely built with industrial-grade hardware. By engineering and manufacturing our own systems we can produce a product with a longer life-cycle, control the quality and quantity of the inventory and parts, and deliver fast and complete serviceability of each and every unit.

Peer-Reviewed and Science-Based Tests - No other company providing computerized visual acuity systems has more science behind the product than M&S. Our tests, algorithms and protocols have all been peer-reviewed and tested by key professionals and scientists in the industry. And our technology is certified and calibrated to the ANSI and ISO specifications for vision testing.

Interface with other Industry Leaders - M&S has customized algorithms for pharmaceutical companies, developed software for licensing, and developed proprietary products. We've also integrated technologies from other industry leaders to broaden the capabilities of the Smart System for thorough patient care and utmost efficiency for the eye care professional.



Unparalleled Technical Support and Customer Service – We take great pride in providing the best technical and customer support in the industry. Our experienced personnel are dedicated to resolving issues quickly and professionally.

See reverse side for specific features of the M&S Smart System 20/20.

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M&S Technologies Inc



Smart System[®] 20/20









Item Name:

Contrast Sensitivity Testing – Contrast sensitivity testing with normative data using letters, patented bullseye pattern or linear sine gratings. Test your patients at the standard cycles per degree and at the conclusion of the test, a graph will display the score relative to normative data (data collected and certified by Illinois College of Optometry). A study by the University of Toronto and Hospital for Sick Children determined that the Letter Contrast Sensitivity protocol on the Smart System was as effective as the Pelli-Robson wall chart in diagnosing adults and children with contrast issues.

Glare Testing System (GTS) – The M&S GTS provides a consistent technology for measuring the impact of glare on a patient's vision. Carefully calibrated against existing methods of testing and validated by Nova Southeastern University, our GTS provides a consistency that can't be found in rechargeable incandescent systems or any other glare source on the market today. Re-engineered to install easily and securely to the American-Made Smart System.

Waggoner Color Testing – Developed by Terry L. Waggoner, O.D. and validated by the U.S. Navy, this test detects, classifies and quantifies the degree of color vision deficiencies. The test correlates 100% with the Nagel Anomaloscope, providing greater correlation than the Ishihara plates. The Waggoner color images also eliminate the potential for providing high frequency clues to the patient, which is a risk associated with computerized color cone tests.

eEDTRS and ATS Protocols – Smart System EVA is approved for use in clinical trials by the JAEB center (Tampa, FL) utilizing the *e*ETDRS^m and ATS protocols. Designed and developed by industry professionals, the *e*ETDRS protocol has become the standard in vision testing. Running *e*ETDRS on the Smart System allows for both BCVA testing as well as trial testing. Small and mobile, it saves time, space and unnecessary inconvenience at the investigator site.

CustomLinkTM – This unique feature enables each user to customize all settings on the Smart System so that each user can work with only their particular preferences and not waste time with tests not often used. It also enables eye care professionals with sub-specialties to share the same Smart System without compromising exam room efficiency and throughput.

Auto-DVD play – With this feature, the user can access whatever is in the DVD drive directly from the remote control, wireless tablet or illuminated keypad. There's no waiting for the disk to spin-up, nor the need to select chapters or titles. Users can create their own patient education DVDs and play them on demand. The software can be programmed to "learn" unique production DVDs.

More Key Features and Tests:

- 7 Optotype Choices and Letter Size to 20/1600
- Allen Pictures
- Approved for Clinical Trials using *e*ETDRS
- Astigmatic Dial (Customizable)
- Automated Protocol Sine Wave Contrast Testing with Normative Data (testing at 1.5, 3 and 6 CPD with Auto-Charting and Plotting)
- Contour Stereo Testing
- Customizable input devices
- Distance Stereo Testing (with optional Liquid Crystal Shutter Glasses)
- Dual View
- Enhanced Anaglyph Random Dot Stereo Testing (Customizable)
- Fixation Disparity
- Glare Testing Kit (optional)
- LEA[®] Symbols and Numbers
- Low Vision Testing (eLVT) including: 20/3200 Optotype Sizing, Amsler Grid, Berkeley Rudimentary Vision Test, Circle Quadrant Test, Dynamic Visual Acuity, Low Vision Size Progression, Masked Low Vision, 1-Meter Testing, White Letters on Black Background



- Mirrored Lane Compatability
- Optotype Pointer
- Patient Education Ingtegration
- Red/Blue Distance Stereo (Standard)
- Red/Green Duo-Chrome
- Secondary Calibration Distance
- Secondary Default Line
- Sine Wave Grating Contrast Test with Charting Feature and Normative Data
- Single Vertical and Horizontal Line
- Snellen & Sloan Letter Sets
 - Three Lines Same Size Display
 - Tumbling E's
 - User-Created JPG Screen Savers and
 Uploadable PPT Slide Shows
 - Wireless Bluetooth Tablet input (Optional)
 - Verhoeff's Circles

Product Code: SS2020A Overall Size: 18.25 H x 23.75 W x 3.75 D Weight: 23 lbs. **Display Size:** 11.75 H x 18.625 W 100-240 VAC Voltage: S/U Amp Draw: 2.1 Outlet: Std Duplex, Non-isolated Bracket #: 70020

Technical Specs: American-Made All-in-One

Smart System 20/20

Technical Specs: Separate CPU & Monitor

Item Name:	Smart System 20/20
Product Code:	SS2020
Overall Size:	13.50 H x 19.875 W x 2.5 D
Weight:	11 lbs.
Display Size:	11.75 H x 18.625 W
Voltage:	100-240 VAC
S/U Amp Draw:	.95
Outlet:	Std Duplex, Non-isolated
Bracket #:	70020
Bracket #:	70020

Service Program – The warranty on the Smart System 20/20 is one-year inclusive of all components. An extended service contract is available on hardware.