

Innovative Ophthalmology Solutions

Huvitz Digital Chart

HDC-9100N/PF



# A great variety of charts and vision test procedures bring you the most accurate prescription!

The most complete variety of Huvitz LCD Charts and Optotypes System, HDC-9100N/PF, now in Full HD technology.



#### High Resolution 24" LCD Chart

This 24" Color TFT-LCD Polarized Panel provides a high resolution chart of 1920 x 1080 pixels.

#### **Polarized Charts and Stereoscopic Vision Test**

By adopting a polarizing LCD panel, all visual acuity tests such as heterophoria/heterotropia test, binocular balance test and stereoscopic vision test are possible.

#### **Comprehensive Test Range**

This High Resolution LCD provides a broad test range from 0.03 to 2.0 chart without distortion.

#### **Selectable Working Distance**

Working distance can be adjusted in any testing environments for user convenience. \*1.5 m~6 m (0.1 m unit)

#### Easy to Upgrade

HDC-9100N/PF can be upgraded automatically simply by uploading the new software to the USB memory and plugging it into the USB

# High Resolution Polarized LCD Visual Acuity System HDC-9100N/PF

# Most Powerful Visual Acuity System Supporting a Variety of Charts

# Various Types of Standard Visual Acuity Charts

The more than 100 various charts for the HDC-9100N/PF support all manners of tests for the visual acuity and visual function. Standard charts include tests such as Letter, Number, Landolt C, Snellen E, Children chart and other specialty charts as well.

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#### **Polarized Charts and Functional Charts**

HDC-9100N/PF provides a variety of polarized charts that can be applied to many types of tests using the Cross Cylinder, Red/Green, Polarization and other special lenses such as the Binocular Vision Test, Stereoscopic Vision Test, Heterophoria / Heterotropia Test, Binocular Balance Test, Fusion and Suppression Test, Aniseikonia Test and more.

#### **Smart Display Function**

The HDC-9100N/PF provides single letter and horizontal/ vertical line masking with the image always displayed in the center of the screen. This function prevents test errors caused by memorizing the position of characters in advance by patients.

# Standardized ETDRS

HDC-9100N/PF offers the ETDRS acuity at various test distances and a wide variety of ETDRS LogMAR tests are also available. (ETDRS acuity testing has become the worldwide standard for visual acuity testing replacing the Snellen and Sloan acuity tests.)



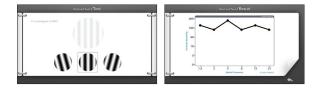
# **Color Vision Test**

HDC-9100N/PF presents 12 charts for testing Color Blindness and 9 charts for classifying the level of visual inability



# **Contrast Sensitivity Test**

The HDC-9100N/PF also has a function to measure contrast sensitivity at various levels using letter charts and the bar. The results of tests are analyzed and displayed providing the patient with more details and a professional and analytical diagnosis.



# **Hue Test**

For the color blindness test, the HDC-9100N/PF supports the professional test consisting of 85 color charts diversified by wavelength and the simple test of 15 color charts.



# **Playing Video and Image Slide Function**

The HDC-9100N/PF shows patients the examples that can explain diversified refractive errors such as myopia, hyperopia, and astigmatism. It is also possible to play video or display images stored to the USB memory at user preference. This can be used to advertise the optical shop during the screen saver mode.

#### **Amsler Grid Test**

The macular degeneration can be checked by the amsler grid on the HDC-9100N/PF.

# **Custom Setting**

Easy & simple GUI is provided to setup a user-defined environment for a visual acuity and a specialized inspection.

#### **System Integration**

HDC-9100N/PF can be synchronized and integrated with the HUVITZ Digital Refractor for a more convenient, faster visual acuity test.

All the functions of the HDC-9100N/PF chart can also be operated from the control panel of Digital Refractor through IR connection.

In particular, WiFi connection option is offered newly that HDR-9000 can be connected through WiFi.

# HDC-9100N/PF Huvitz Digital Chart

#### Specifications

Hue Test / Result

| LCD Type                     | ·N-Type (Non-Polarized Panel):24 inch Full HD TFT LCD<br>·PF-Type (Polarized Panel):24 inch Full HD TFT LCD   |  |  |  |  |
|------------------------------|---|--|--|--|--|
| Resolution                   | 1920 x 1080 pixels  |  |  |  |  |
| WhiteLuminance               | 250 cd/m <sup>2</sup>   |  |  |  |  |
| Chart Window Size            | 24inch:531.4mm(H)x298.9mm(V)  |  |  |  |  |
| Adapter Power Consumption    | 100-250 V~,1.5-0.75 A,50-60 Hz  |  |  |  |  |
| Product Power Consumption    | 12VDC,4A  |  |  |  |  |
| MainBodySize/Weight          | 568mm(W)x336mm(H)x80mm(D)/6.1kg   |  |  |  |  |
| Remote Control Size / Weight | 64mm(W)x195mm(H)x21mm(D)/160g   |  |  |  |  |
| TestDistance                 | 1.5m~6m(0.1mStep)   |  |  |  |  |
| ExternalInput                | USB (Memory Stick, Keyboard), CAN   |  |  |  |  |
| Controls                     | ·Wired (CAN): HDR-7000, HDR-9000, CDR-3100<br>·Wireless (IR): HDR-7000, HDR-9000<br>·Wireless (WiFi): HDR-9000<br>·Bluetooth 3.0  |  |  |  |  |
| Main Body Fixing Method      | WallMount   |  |  |  |  |
| Optional                     | ·Red/Green Glasses<br>·Polarization Glasses<br>· Desk Stand   |  |  |  |  |
| Chart                        | <ul> <li>Landolt Ring, Alphabet, Number, Tumbling E</li> <li>Figures for Children, Russian Letter, Hiragana</li> <li>Functional Chart (Red/Green, Cross Cylinder, Binocular Balance,<br/>Fusion Suppression, Phoria, Aniseikonia, Streopsis etc.)</li> </ul>        |  |  |  |  |
| Masking Filter               | ·Dot,Row,Column<br>·Red/GreenFilter   |  |  |  |  |
| Setting                      | Change IR Channel of Remote Controller (10 Channel)     Mode for Movie or Photo     Sleep Mode     Contrast Rearrange     Red/Green Balance     Color Adjustment for Red/Green Filter     Random Function     Chart Space Adjustment     Chart Background Switching |  |  |  |  |
| Test                         | ·Color Vision Test<br>·HUE Test<br>·Contrast Sensitivity Test   |  |  |  |  |
| Etc.                         | <ul> <li>Vergence, Saccadic, Stereopsis Training</li> <li>Custom Program (2 Program Support)</li> </ul>   |  |  |  |  |

\* Specification and design are subject to change without notice.



Red Green/PolarizationGlasses



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C6XXCL-21-00001, 24.07.17, RevB