LC·R1
LCD Visual Acuity Chart

Convenient menu screen

Visual Acuity Chart

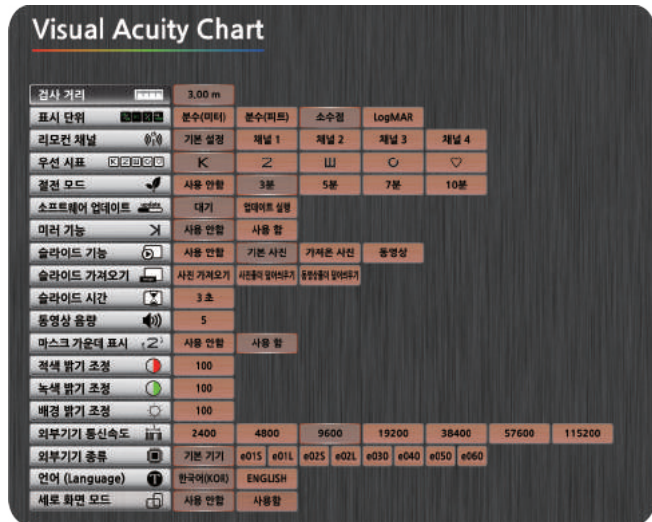| 검사 거리		3.00 m			
표시 단위		분수(미터)	분수(피트)	소수점	LogMAR
리모컨 채널		기본 설정	채널 1	채널 2	채널 3	채널 4
우선 시프트		K	2	Ш	O	♡
절전 모드		사용 안함	3분	5분	7분	10분
소프트웨어 업데이트		대기	업데이트 실행		
미러 기능		사용 안함	사용 함		
슬라이드 기능		사용 안함	기본 사진	가져온 사진	동영상
슬라이드 가져오기		사진 가져오기	저장된 앨범보기	동영상 앨범보기	
슬라이드 시간		3 초			
동영상 음량		5			
마스크 가운데 표시		사용 안함	사용 함		
적색 밝기 조정		100			
녹색 밝기 조정		100			
배경 밝기 조정		100			
외부기기 통신속도		2400	4800	9600	19200	38400	57600	115200
외부기기 종류		기본 기기	e01S e01L e02S e02L e030 e040 e050 e060		
언어 (Language)		한국어(KOR)	ENGLISH		
세로 화면 모드		사용 안함	사용함		

For high visibility, it has a lot of intuitive icons and provides multiple language for convenient use.

Optimized unit step according to the test method

Meter	Feet	Decimal	LogMAR
6/200	20/660	0.03	1.5
6/120	20/400	0.05	1.3
6/85	20/280	0.07	1.15
6/60	20/200	0.1	1.0
6/48	20/150	0.15	0.8
6/40	20/100	0.2	0.7
6/36	20/90	0.3	0.5
6/30	20/80	0.4	0.4
6/24	20/70	0.5	0.3
6/21	20/60	0.6	0.2
6/18	20/50	0.7	0.15
6/15	20/40	0.8	0.1
6/12	20/30	0.9	0.05
6/9	20/20	1.0	0
6/7.5	20/20	1.0	-0.1
6/6	20/15	1.5	-0.2
6/4.5	20/10	2.0	-0.3

It basically provides four kinds of unit as above, and it shows measurement unit optimized to identify with ease.
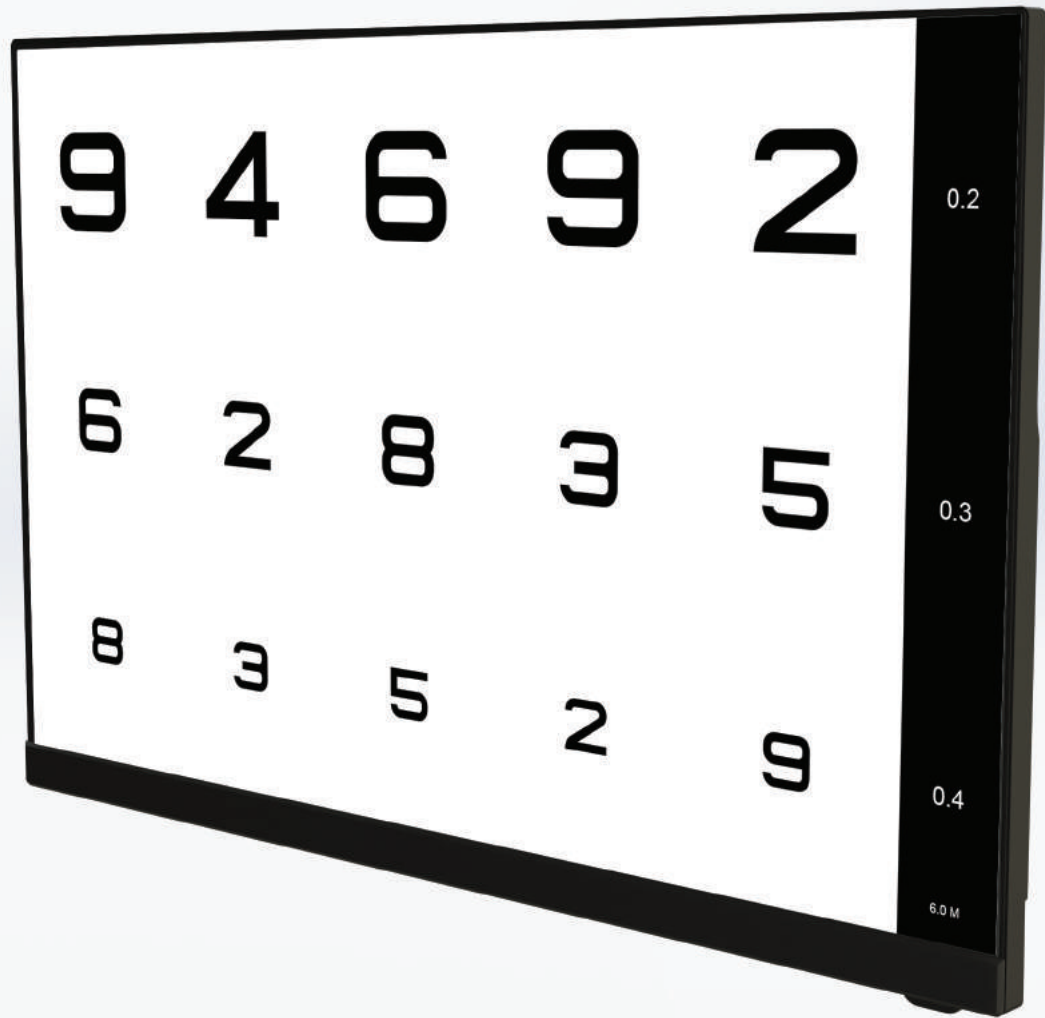
Specifications

This is a medical device conformed with IEC 60601-1:2005+A1:2012.

Screen	24 inch (61.1 cm) WUXGA TFT LCD
Visible area	(W)518.4 x (H)324.0mm
Screen ratio	16 : 10
Resolution	1920 x 1200 pixels
Brightness	Max. 300 cd/m^2
Refraction distance	1.5 ~ 8.0m (0.1m step) / 4.75 ~ 26.00 feet (0.25 feet step)
Main processor	Amlogic S905 SoC 4 x ARM Cortex-A53 1.5GHz
	64bit ARMv8 Architecture @28nm / 3 x ARM Mali-450 MP 700MHz
Internal memory	MicroSD 16GB 90MB/s
Operating System (OS)	Google's Android
Power	DC 12V 5A
Power consumption	55 W
Control	Infrared radiation or serial communication of RS-232
Multi-channel	Max. 4 channels
External interface	4x USB, 1x RS-232, 1x Ethernet (10/100/1000)
Standard accessory	IR Remote-control, Wall-mount bracket
Optional accessory	Floor stand, Red/Green glass, WIFI module
Dimension and weight	(W)534 x (H)361 x (D)41mm, approximately 4.0kg

64bit QUAD-CORE

Enjoy more fast and excellent system with high performance of Quad-Core CPU & GPU.
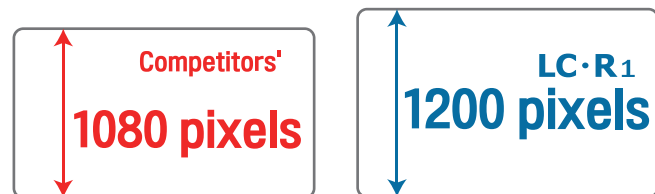
Android Embedded

Android embedded system that has various additional functions and powerful resource management enables more stable eyesight test.
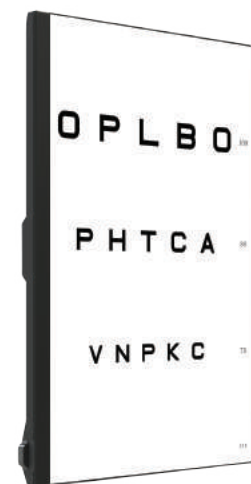
Bezeless frame design

The 2.7mm thin plastic rim design configures a screen with Bezeless. Also, the thickness of the product is 44mm only.

Utilization ability of screen ratio 16:10
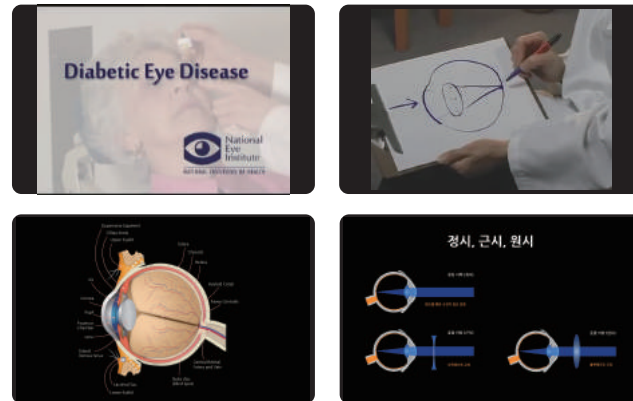
Competitors'
1080 pixels

LC·R1
1200 pixels

It displays more information including visual acuity charts and other functional images on the full-screen because its height and the vertical resolution are longer than competitors'.

Portrait screen mode

The portrait function enables that it can be installed onto the narrow space without additional interior construction changes.

Excellent Slide function

It 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 sotred to the internal memory or external USB drive at user preference. This can be used to advertise during the screen saver mode.

Adjusting contrast function
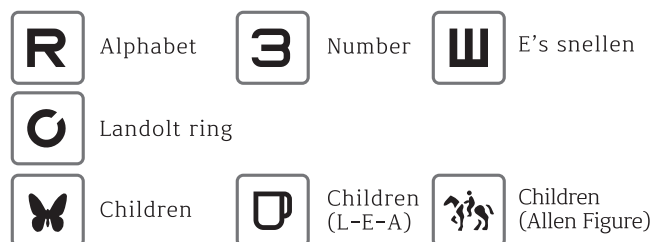
100%   50%   20%   7.5%   1.5%

It has a function that can adjust 10 steps of contrast from 100% to 1.5% in order to be useful for a contrast sensitivity test and refraction of surgical patients.

Compatibility with other devices

It basically provides wireless communication using infrared light and wire communication using RS-232 protocol. Using this, it can be used with other devices such as digital refractor made by other manufacturer. For this, consult with the manufacturer or local distributor.

Variable chart-images for eyesight test

R   Alphabet   3   Number   W   E's snellen

C   Landolt ring

Children   Children (L-E-A)   Children (Allen Figure)

To support an effective and accurate eyesight test, it provides an alphabet, a number, E's Snellen, Landolt ring and children charts. And, it specially provide L-E-A and Allen figure charts as well as traditional drawing chart for children [optional].

Largest VA charts for low-vision
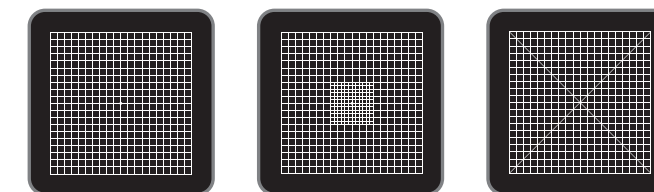
9   0.03   4   0.05

2   0.07

For the patient of low-vision, it provides 0.03, 0.05 and 0.07 VA levels in all kinds of VA optotypes.

Crowding mask

In the eyesight test for child and patient who has other ophthalmic disease, it offeres the function covering letter with interaction bars to exclude distinction between letters' concentrated distance for the concentration of optotypes.

AMSLER Grid

AMSLER Grid chart enables a convenient diagnosis for retinal disease.
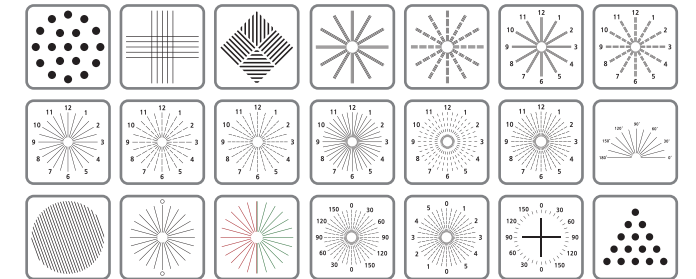
Randomizing chart

93462   42789

It can display randomizing charts in the same acuity level in order to prevent patient's memory problem and re-test in case of necessity.

Wide range of adjusting distance

According to the environment and method of refraction, refraction distance can be adjusted from 1.5 to 8.0 meter in the menu screen. [4.75 to 26.00 feet]
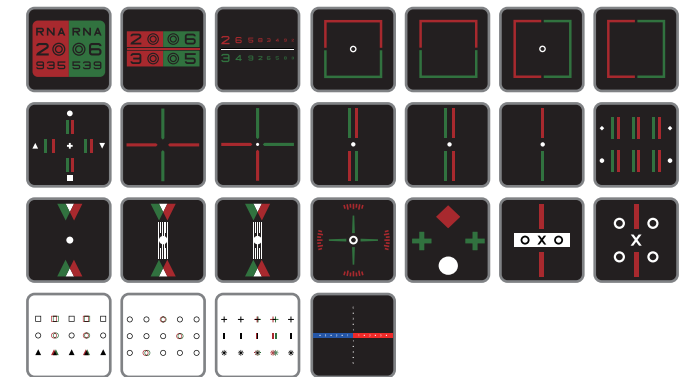
Various astigmatism charts

For precise and convenient astigmatic test, it offers 21 kinds of astigmatic test charts.

Useful special test charts

It provides twenty-five (25) kinds of special charts that can be applied to many types of tests such as the Binocular Vision Test, Stereoscopic Vision Test, Heterophoria/Heterotripia Test, Binocular Balance Test, Fusion and Suppression Test, Aniseikonia Test and more.

Fan & Block

Fan & Block function enables to get an accurate astigmatic axis of the patients.

Dynamic moving test chart

In the measurement for phoria test and binocular test, the size or position can be adjusted by the button of remote-control.