Digital Visual Acuity Chart System
VLC – 1900 / VLC – 2400(P) (New System)

World Market Share No. 1

LCD CHART SYSTEM

- New Standard of Visual Acuity Test
- Space-free Chart System
- No more Consumables needed
- Various Charts Support
- Image Slide-Show Customizable
- Stabilized All-in-One System Integration Technology
- User Friendly Function Design

www.viewmtechnology.com

CE FDA TÜV Rheinland Product Safety Geprüftes Medizinprodukt Approved medical device KFDA ISO 13485

viewM TECHNOLOGY

Skaitmeninė Regos Aštrumo Optotipų Ženklų Sistema VLC-1900

1. Digital Visual Acuity Chart System VLC-1900 / VLC-2400(P) (New System)

≫ DISTINGUISHED FEATURES

Window CE Embedded Type Visual Acuity System

- Window CE Embedded type of VLC chart system is more stable than computer based system and needs not additional accessories

- VLC chart system needs not cooling pan as it generates less heat while in operation

- Booting Time: Less than 25 seconds

Special Charts & Various Precise Examination

10.
- VLC chart system helps various and precise exam including Binocular Balance, Aniseikonia, Streopsis, Binocular Fusion, Suppression, Strabismus, Phoria, Color Blindness and Amsler Grid Test with more than 100 charts

8.
Binokulinio Balanso, Anizeikonijos Stereopsio, Binokuliarnes Fuzijos, Supresijos, Strabizmo, Forijos, Spalvinio Aklumo ir Amslerio Tinklelio Testas su daugiau nei 100 lentelių

Wide Viewing Angle & Clear Chart

- VLC chart system adopts high resolution 19-inch (1280 x 1024)&24-inch (1920 x 1080) reliable industrial LCD panel with wide viewing angle which provides clear chart and removes the image distortion as well

User friendly function for test distance adjustment

- Viewing distance can be adjusted in accordance to the space of test room

- Viewing Distance is selectable by 0.25M or 0.5M step within 1.5M (Min) ~ 8.0M (Max)

Networking Function

- VLC chart system communicates with compatible automatic phoropters

Wired / Wireless Remote Control with LCD Window

6.
- VLC chart system support both wired / wireless remote control   distancinio valdymo pultelis

- High brightness of LCD panel enhances user convenience at dark eye exam circumstances

6.
- Remote control needs not replacement of Battery according to the adoption of rechargeable Lithium-Ion Polymer internal battery   pakraunama Ličio-Jonų Polimerų vidine baterija

User friendly Function

12. Black / White Reverse
Juodas / Baltas reverso funkcija
9.
- Black / White reverse function helps Cataract and Lasik patients recognize charts easily

Kontrastinio Jautrumo Reguliavimas
11. Contrast Sensitivity Adjustment
- VLC chart system helps examiner test with Cataract patients using contrast sensitivity adjustment
- They enable the examiner adjust to 10 steps.   10 žingsnių

Raudono / Žalio Filtro Reguliavimo funcija
10. R / G Filter Adjustment Function
- VLC chart system provides 32steps of R / G filter density that can be used in accordance with test circumstances
- All of Red/Green color charts can be reversed

ETDRS Reguliavimo Funkcija
10. ETDRS Adjustment Function
- Position of opto-types of ETDRS-1 and ETDRS-2 can be changed by pushing a botton on remote control

Random Function
- VLC chart system provides various charts with differently order
8.
opto-types with Number Alphabetic Irtters, Landolt, Snellen opto-types in order to protect the memorizing the order of opto-types bt patients

Skaidrių rodymo funkcija
14. SLIDE SHOW Function
- VLC chart system can store 18custom images in SD card and displays the images while the system is in power saving mode. And the images change in 5 or 10 seconds
- 6 kinds of eye movement test charts during Slode mode.
- 4 kinds of Amsler Grid for Macular Degeneration.
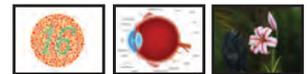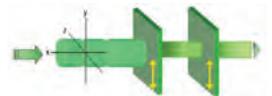- Animation for making a child concentrated during test .

Chart Selection Function
- An examiner can select one of both Non-pola and Pola chart.

Best Polarization Performance
- VLC-2400 P
- Polarization of 24-inch full screen
- Optical polarization glass panel
- Precise eye exam available using special charts

Various System Placements and Accessories selectable

15.
Montavio ant sienos mazgas

Desk Stand   Wall Mounting Bracket

Floor Stand   Red/Green Glasses   Polarizing Glasses

SPECIFICATIONS

Model		VLC - 1900	VLC - 2400(P)
LCD Type	2. 3.	19 inch (SXGA) TFT LCD	24 inch WUXGA TFT LCD
Resolution	4.	1208 X 1024 pixels	1920 X 1080 pixels
Chart window size		(H) 300 X (W) 375mm	(H) 298.89 X (W) 531.36 mm
Brightness	5.	80 ~ 320cd/M (5 - Level variable)	Max 300 cd/m^2
Chart Available		"Landolt, Snellen, English, Arabic, Numeral, Color Blindness, Special Charts, Image and ect."	
Selectable Distance	7.	1.5 ~ 8M (0.25M step)	
Memory Type	13.	SD Card SD koortelė	IDE type Flash Disk Module 4G
Power Supply	16.	DC 12V / 5A	DC 12V / 6.66A
Power Consumption		40W Maitinimo adapteris	Less than 80W
Comctn	Wireless	IRDA Communication	
	Wired	RS232 Communication	
Dimension / Weight		(W) 436 X (H)362 X (D)59.55mm / 5.5Kg	(W)621 X (H)428 X (D)76mm / 12Kg
Remote Control		(W)69.5 X (H)235.5 X (D)26mm / 200g / Rechargeable Battery	
Data Interface		USB	USB, RS-232
Standard Accessories		Wall Mount Bracket, Desk-top Stand	Wall Mount Bracket
Optional Accessories		Poll type Floor Stand, Red/Green Glasses, Pola Glasses	

The 1st **32"** vertical type

LCD Smart Chart System

NEW

Visual Acuify | Binocular 1 | Binocular 2 | Color Blindness | Eye Movement | Program

MENU

M

%

SCS-3200 SMART CHART SYSTEM
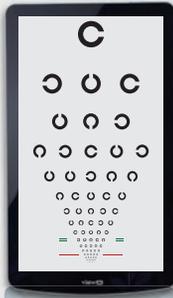
More convenient UI (User Interface)

User-friendly Advertisement Effect throught Inserting a USB Key

Possible to display photographic Records from Slit Lamp or Fundus Camera

Realization of 32" Full Screen of ETDRS

Speedy and convenient Remote Control

O P T I O N

High-technology of Space recognizable Remote Control (Optional Accessary)

Possible to use iPad as a Remote Control

SCS - 3200 Specification

	Specification
LCD Type	32 inch WUXGA LED Backlight TFT LCD
LCD Resolution	1080 X 1920 Pixels
LCD Brightness	Max 450 cd / m^2
Window Size	392.85(H) X 698.4(V) (mm)
Memory type	Solid State Disk
External Interface	USB 2.0 port, RJ45 Ethernet
Power	AC 110V ~ 220V, 50/60Hz
Power Consumption	Less than 180W (7W + 106W + 50W + etc.)
System Dimensions	470(H) X 900(V) X 90(T) (mm)
System Weight	17Kg
Remote Control Dimensions	65(H) X 195(V) X 20(T) (mm)
Remote Control Weight	158g

The best Quality with the best Service Today !

VRK-2400
Auto Ref-Keratometer

DSP Measuring Engine Provides Stabilized
Measured Results and clear Pupil / Iris Images

Various Measurements Support
Wide Measurement Range
Auto - Starting Function
Accurate Measurement

www.viewmtechnology.com

CE   FDA   ISO 13485   KFA

view M
T E C H N O L O G Y

VRK-2400 Auto Ref-Keratometer

Refraction & Keratometry Measurement

VRK-2400 Provides an extensive range of dioptric measurement range. It covers -25D to +22D, and the radius of curvature for keratometry is 5.0mm to 10.2mm. Owing to its easy alignment and friendly operation you can measure the refraction and keratometry in a sequency, the results can be checked all at once.

Diameter Measurement

Using the VRK-2400's Freeze Function, you can measure the diameter of the cornea, pupil or hard contact lenses worn by an examinee. Since the image of the eye is frozen, the process is both easier and more precise.

Automatic Power Saving

When the VRK-2400 is not in use more than 5minutes, a built-in power saving function eliminates current to the TV monitor and lighting circuitry. It conserve energy and prevent any build-up of heat from electronic circuitry, increasing its useful life.

Color photo target

This color photo target with wide angle of view allows the exami-nee to be more relax-ed, making eye fixation easier. The auto-fogging function reduces the effects of instrument myopia and patient accommodation, especially helpful with children and patients with difficult eyes.

Display data instantly

Through monitor, you can see the results (maximum of 10 data for each eye) of measurements stored in memory. Also it can be printed out using built-in printer.

Various Measurement and convenient Use

- Dual and single measurement mode selection button for refractometry, keratometry and contact lens base curve(CLBC)

- Switch button for automatic and manual measurement mode including pupil distance(PD) measurement for both near and far vison

- Retro illumination mode button for the measurement of cornea, contact lens and crystalline lens

- Size mode button for the measurement of cornea and pulpil diameter

- Chinrest moving up and down button

- Print - out button

- Intraocular lens(IOL) mode button for the measurement of eye with cataract and IOL

473mm

274.19mm

500.5mm
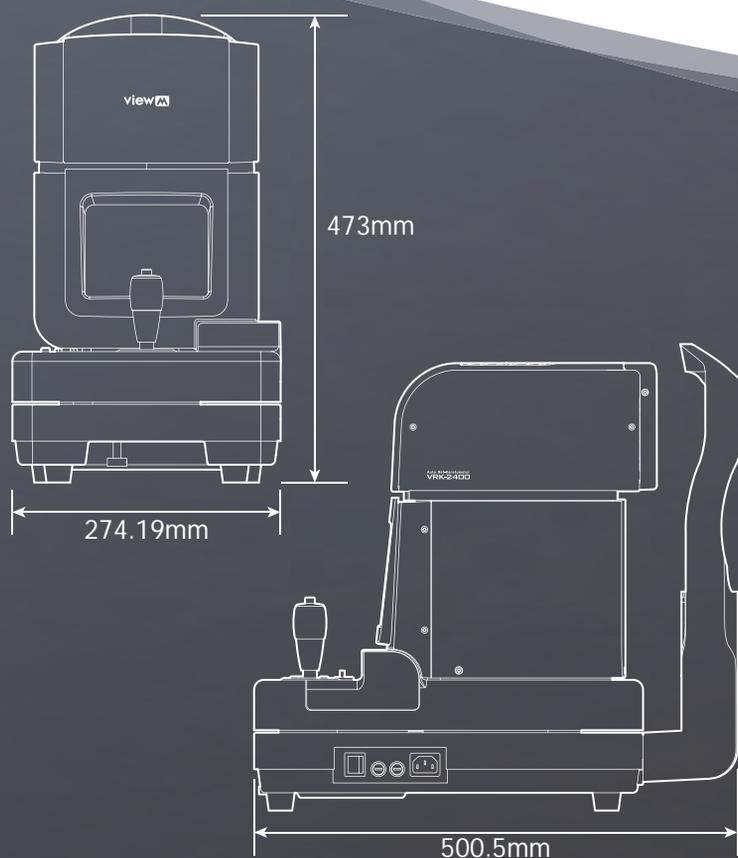
Specifiacations

MEASUREMENT MODES

Continuous Keratometry and Refractometry (K / R Mode)	
Refractometry (REF Mode)	
Keratometry (KER Mode)	
Contact Lens Base Curve Measurement (CLBC Mode)	

REFACTOMETRY

Vertex Distance (VD)	0.0, 12.0, 13.5
Sphere (SPH)	-25.00 ~ +22.00D (when VD = 12mm)
	(Increments : 0.12 and 0.25D)
Cylinder (CYL)	0.00 ~ +10.00D
	(Increments : 0.12 and 0.25D)
Axis (AX)	1 ~ 180 (Increments :1°)
Cylinder Form	-, +, MIX
Pupil Distance (PD)	10 ~ 85mm
Minimum Pupil Diameter	Φ2.0mm

KERATOMETRY

Radius of Curvature	5.0 ~ 10.2mm (Increments : 0.01mm)
Corneal Power	33.00 ~ 67.50D
	(when cornea equivalent refractive index is 1.3375)
	(Increments : 0.05 / 0.12 / 0.25D)
Corneal astigmatism	0.00 ~ -15.00D (Increments : 0.05 / 0.12 / 0.25D)
Axis	1 ~ 180 (Increments :1°)

OTHERS

Corneal Diameter	2.0 ~ 12.0mm (Increments : 0.1mm)
Memory of Data	10 measurements for each eye
Internal Printer	Thermal line printer
Power supply	AC100 -240V, 50/60Hz (Free Voltage, Free Frequency)
Dimensions	Approx. 300(W) 500(D) 430(H)mm
Weight	Approx. 20kg

CE FDA

view M
T E C H N O L O G Y

Auto Phoroptor

VDR-2400 Digital Refractor
DIGITALIZED REFRACTOC BY VIEW-M
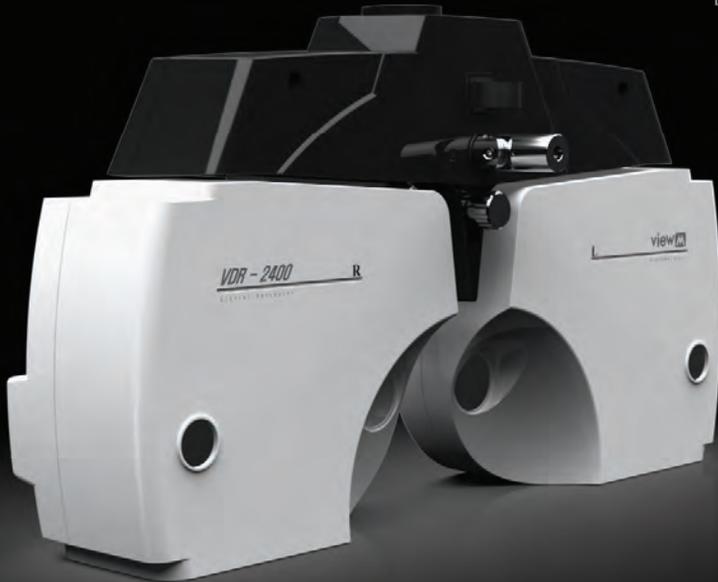
VDR-2400 enables exact and fast eye test with more accuracy by the function of diversified and precise eye examination. Digital type of VDR-2400 is very accurate.

The measuring procedures are easy for optician's convenience.

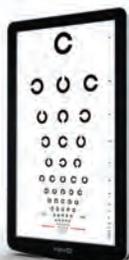It will certainly assist you to do precise eye examination.
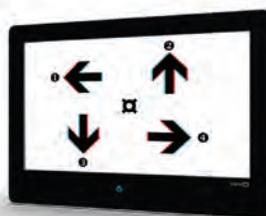
Networking System

6.4 inch Full-Color - Monitor
Automatic PD control & Convergence - Control Technology
Convenient Function Key - Control Panel

View-M Product

32inch
SCS-3200
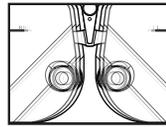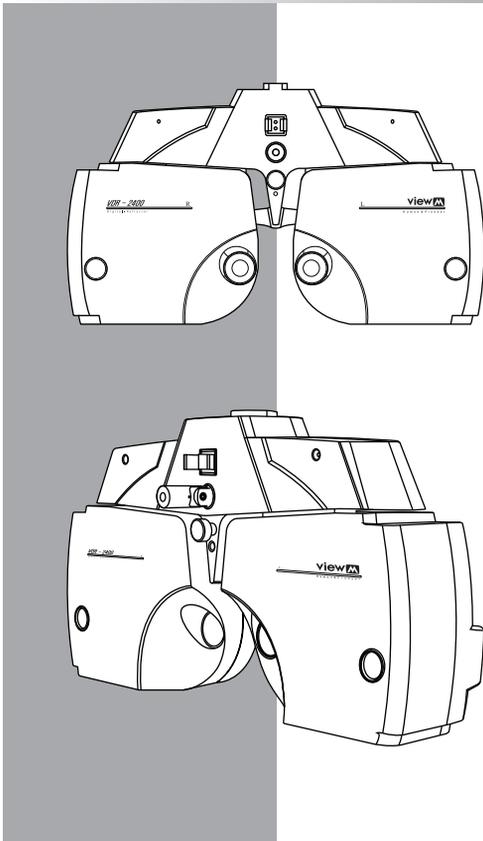Smart chart system

24inch
VLC-2400/P
Polar chart system

19inch
VLC-1900+
Visual chart system

VIEW-M TECHNOLOGY CO.,LTD.

Auto Phoroptor

VDR-2400 DIGITAL REFRACTOR
## DIGITALIZED REFRACTOR BY VIEW-M

- **Automatic PD control**
  Automatic PD setting by the data transferred from auto ref/keratometer and Individual PD adjustments by using keys are available.

- **6.4inch Full-colored LCD panel**
  The wide(6.4inch) full-colored LCD panel supply the high convenience for the operator.

- **Tilting Monitor**
  Operation Panel Monitor tilted to supply the high visibility for the examinee.
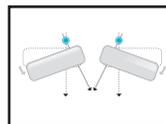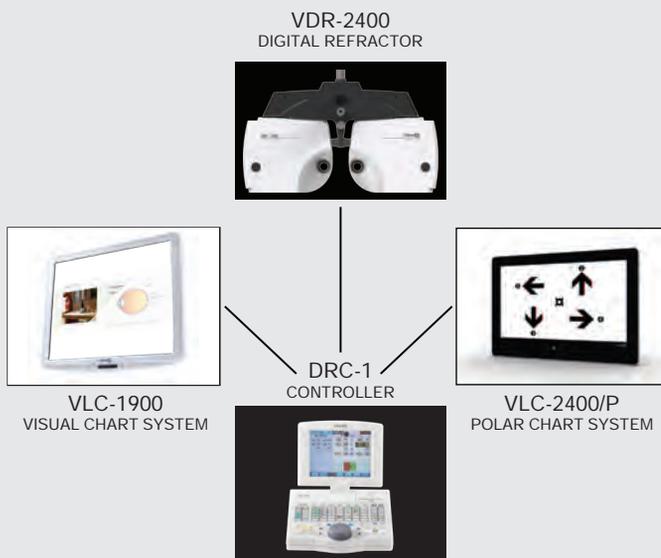
- **Convergence for accuracy**
  For the presbyopia and near vision test, convergence is required for the accuracy.

- **Convenient function key**
  Through well arranged function keys, high-efficient refractor test and quick chart selection are available.

Networking System   Specifications

VDR-2400
DIGITAL REFRACTOR

VLC-1900
VISUAL CHART SYSTEM

DRC-1
CONTROLLER

VLC-2400/P
POLAR CHART SYSTEM

* Efficient data transference between the Series of VIEW-M Brands

View-M Technology Co., Ltd.
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Geumcheon-gu, Seoul,153-010, Rep. of Korea
Tel : +82 2 866 2332, Fax : +82 2 866 2399
Email   : sales@viewmtechnology.com

• Measuring Range

Spherical Lens	-29.00 ~ +26.75D (for general test) -19.00 ~ +16.75D (for cross cylinder and prism test) (Step : 0.12D/0.25D/0.5D/1D/2D/3D)
Cylinder Lens	0.00 ~ 8.75D (Step : 0.25D/0.5D/1D/2D/3D)
Cylinder Axis	0 ~ 180 (Step : 1 / 5 / 15 / 30 / 45)
Pupil Distance	Far : 48~80mm / Near : 45~75 mm (Step : 0.5/1.0mm)
Working Distance	35~70cm (Step : 5cm)
Rotary Prism	0~20△ (Step : 0.1△ / 0.2△ / 0.5△ / 1△ / 2△)
Cross Cylinder	Jackson Cross Cylinder ±0.25D, Jackson Cross Cylinder ±0.50D Dual Cross Cylinder
Retinoscopy Lens	+1.5D, +2.0D (Test Distance 67cm, 50cm)

• Specifications

Body	447(width) * 119(depth) * 337(height)mm, 6.5 kg
Controller	214(width) * 286 (depth) * 171(height)mm, 1.0 kg
Junction Box	266(width) * 72(depth) * 240(height)mm, 1.3 kg
Powr Supply	AC 100 ~ 240 V, 50/60Hz
Power Consumption	140VA

• Auxiliar Lens

Open/Close Lens	
Pin Hole Lens	Φ 1mm
Moddox Rod	Right eye (horizontal red), Left eye (vertical red)
Red/Green Filter	Right eye (red), Left eye (green)
Polarized Light Filter	Right eye (135°, 45°), Left eye (45°, 135°)
Separating Prism	Right eye (6△BU), Left eye (10△BI can be added to 0~5△)
PD Test Lens	
Fixed Cross Cylinder Lens	Jackson Cross Cylinder ±0.50D, Axis fixation 90°
Vision Degrees	32°

The best Quality with the best Service Today !

VRK-1900
Auto Ref-Keratometer

DSP Measuring Engine Provides Stabilized
Measured Results and clear Pupil / Iris Images

Various Measurements Support
Wide Measurement Range
Auto - Starting Function
Accurate Mesurement

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The best Quality with the best Service Today !

VRK-1900 Auto Ref-Keratometer

Automatic Starting Function
- As soon as properly aligned to each eye,
  VRK-1900 starts measurement process
  and generates measured result automatically

Accurate Measurement
- Fine alignment and focusing
- Automatic fogging to relax accomodation
- Making eye comfortable with foggy method of
  eye fixation target measured result automatically

Various Measurement and convenient Use
- Dual and single measurement mode selection button for
  refractometry, keratometry and contact lens base curve(CLBC)
- Switch button for automatic and manual measurement mode including
  pupil distance(PD) measurement for both near and far vision
- Retro illumination mode button for the measurement
  of cornea, contact lens and crystalline lens
- Size mode button for the measurement of cornea and pulpil diameter
- Measured result display button
- Chinrest moving up and down button
- Print-out button
- Intraocular lens(IOL) mode button for the measurement
  of eye with cataract and IOL

Compatible with automatic Phoroptor through RS232 Communication

High-speed Measurement Result Printing

Wide Measurement Range
- Refractometry : -25D ~ +22D
- Keratometry : R5mm - R10mm

Large Size and high Resolution color LCD Monitor
- Find display of iris image and alignment marks
- 6.4 inch, 0.3 mega pixel LCD panel

Easy and convenient User Interface

Safety
- Fuse for excess electric power shock protection
- Clamping bolt for base locking

IOL

Refractometer Mode	Sphere	-25.00D ~ +22.00D
	Cylinder	0 ~ +/-10D
	Axis	1 ~ 180°
Keratometer Mode	Corneal Curvature	R5.0mm ~ R10mm
	Corneal Refraction	67.5D ~ 33.7D
	Corneal Astigmatism	0 ~ +/-10D
	Axis Angle	1 ~ 80°
Other Measurement Mode	Pupil Distance	0 ~ 85mm
	Pupil Diameter	0 ~ 12mm
	CLBC	R 5.0mm ~ R10mm
	IOL	OK
	Retro Illumination	OK
Others	Measuring Start	Auto / Manual
	Display	TFT color LCD / 6.4 inch / 0.3 mega pixel
	Alignment	Color Display
	Printer	Built-in Printer
	Output	RS232C / USB(option port)
	Power Supply	AC110 ~ 240Vac 50 / 60Hz 100VA
	Dimension	242(W)X467(D)X465(H)
	Weight	242(W)X467(D)X465(H)

LCD panel display:

NO PAPER   PD   NO:000   M
IOL
R RIGHT
REF 00   S   C   A   VD YL [ ]
MODE   A/M   IOL   ILUM   SIZE   DISP

R RIGHT
00.0 mm
SIZE MODE   1   2   AV
ESC   1/2   L/R8AR   LSHIFT ← → RSHIFT   CLR

—+— Correct Alignment
—+— Incorect Alignment
—+— Lean Alignment to Arrow Direction