

Vaikiškas autorefraktometras A09



Nešiojamas vaikiškas autorefraktometras A12

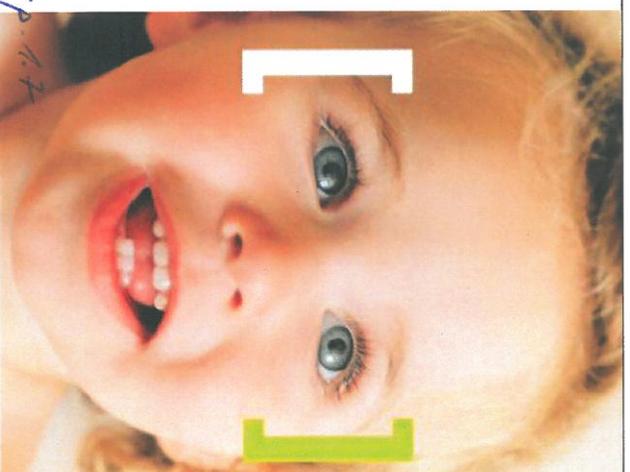


Matavimo principas

Matavimo principas yra parentas išcentrinė fotoreinoskopija. Infraraudonoji šviesa patenka į tinklainę per vyzdį. Priklausomai nuo akies refrakcinės klaidos, atspindėjusi šviesa suformuoja specifinę šviesumo dėmę vyzdžio zonoje. Cilindro ir ašies nustatymui, tas pats matavimas yra pakartojamas trijose meridianose. Matavimas naudojant infraraudonąją šviesą yra visiškai nekenskiningas. Infraraudonoji šviesa yra air dienos šviesoje, bet jie yra nematomi.

MATAVIMO PARAMETRAI	A09	A12
Sfera *	p-1.3 Nuo -7 D iki +5 D (kas 0,25 D).	
Cilindras *	p-1.4 Nuo -7 D iki +5 D (kas 0,25 D).	
Ašys	p-1.5 Nuo 0° iki 180° (kas 1°).	
Vyzdžio dydis	p-1.6 4,0 – 8,0 mm (kas 0,1 mm)	
Matavimo atlikimo laikas	Kintamas, vidutiniškai 0,8 s	Kintamas, vidutiniškai 0,5 s
Matavimo atstumas	1m ± 5 cm	p-1.8
Matavimo taikinio garsas	Čiulbantis garsas vaikų dėmesiu pritraukti	p-1.9
TECHNINIAI PARAMETRAI		
Ekrano rezoliucija	1024 x 768 pix.	Integruotas 5,7" liečiamas ekranas
Sąsajos	4xUSB, 1xVGA, 1xRJ-45	2xUSB, WLAN, SD-Card
Įtampa	100-120V / 220-240 VAC	
Elektros dažnis	50-60 Hz	
Matinimas su baterijomis	nėra	6 x AA baterijos
Certifikatai	EN 60601, CE ir FDA	

* Binokuliniam ir monokuliniam matavimui, sferiniam ekvivalentui



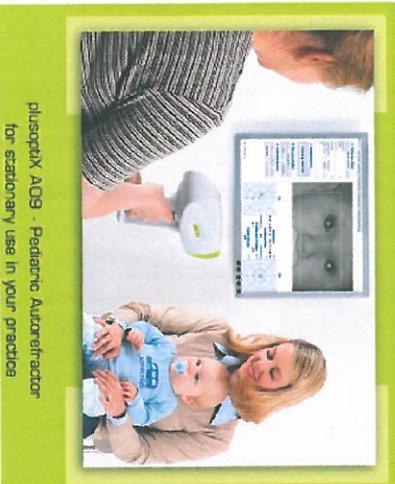
NAUDOJIMAS

Plusoptix sukūrė du rankose laikomus autorefraktometrus, kurie yra skirti kūdikiams, vaikams ir nesamoningiems pacientams.

Modelis Plusoptix A09 skirtas naudoti stacionariai gydytojo kabinete. Modelis Plusoptix A12 yra belaidis baterijomis maitinamas prietaisas ir gali būti naudojamas bet kurioje darbo vietoje.

Abu prietaisai atlieka abiejų akių matavimą vienu metu ir pateikia patikimas refrakcijos, vizualio diometro ir tarpvizualinio atstumo matavimo reikšmes. Atliekant binokulinį matavimą iš karto galima nustatyti anisometriją ir anisokoriją.

Kadangi tyrimas atliekamas su neišplėstais vizdžiais, tai hiperopijos, miopijos, astigmatizmo ir anisometrijos matavimo reikšmės pateikia vertingus duomenis gydytojui atlikus greitą regėjimo patikrinimą. Gauti rezultatai taip pat gali būti naudojami kaip orientaciniai duomenys prieš atliekant retinoskopiją arba patvirtinant retinoskopijos rezultatus.



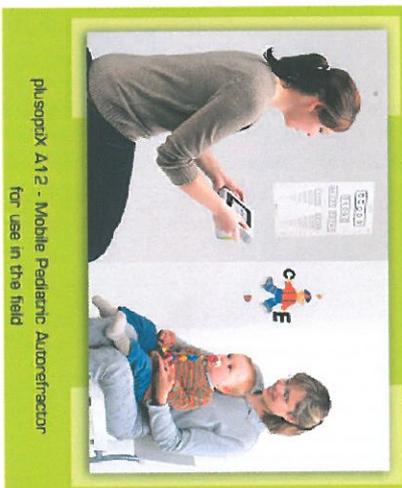
plusoptix A09 - Pediatric Autorefractor for stationary use in your practice

UNIKALIOS SĄVYBĖS

Matavimas iš vieno metro atstumo yra patikimas ir greitas. Net vaikams su nistagmu ir nesamoningiems pacientams galima atlikti matavimą greičiau nei per 1 sek. Matavimą galima atlikti per akinius arba kontaktinius lęšius.

Naudojant Plusoptix A09 arba A12 kūdikiu ir vaikų tyrimas bus ženkliai paprastesnis.

Kadangi abiejų modelių funkcijos yra pilnai automatizuotos, tai matavimą lengvai gali atlikti asistentas.



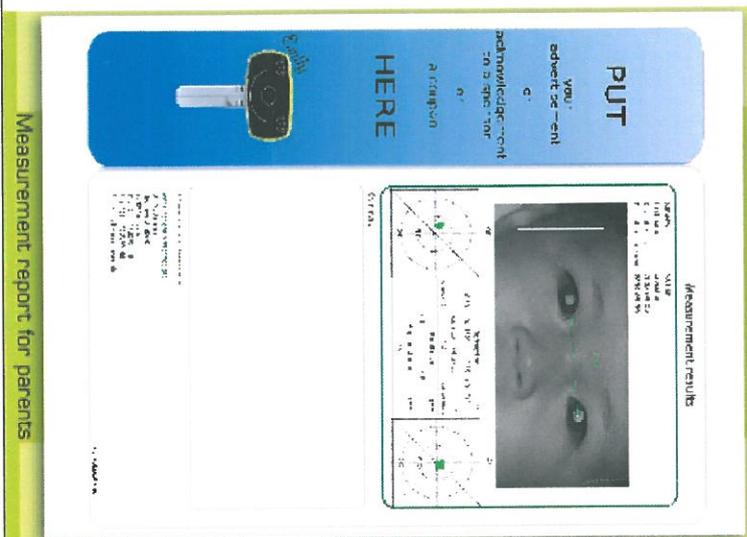
plusoptix A12 - Mobile Pediatric Autorefractor for use in the field

MATAVIMO REZULTATAI

- Refrakcija (Sfera, cilindras ir ašis)
- Ragenos atspindžių simetrija
- Vizualio diametro ir tarpvizualinis atstumas

MATAVIMO REIKŠMĖS

Prilungimas prie įstaigos tinklo	A09	A12
Pacientų duomenų bazė	LAN	WLAN
Matavimo ataskaita	Papildomai Ataskaita	Yra
Ekranu vaizdas/ matavimo rezultatai	Yra	Yra
Rezultatų spausdinimas ant etiketės	Galimas	Galimas



Measurement report for parents

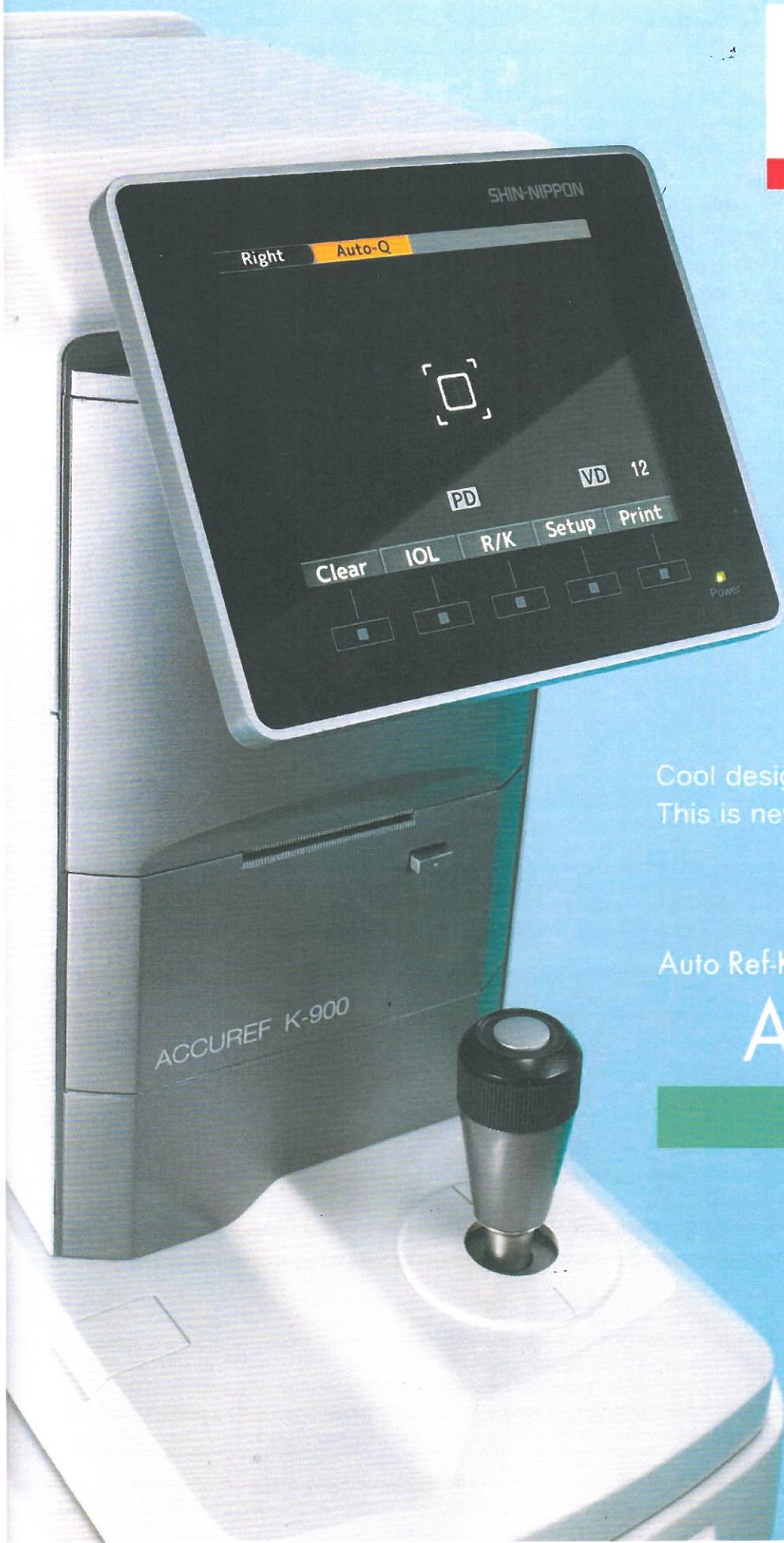
AJINOMOTO®

The Contribution to Health
SHIN-NIPPON



**GOOD DESIGN
AWARD 2011**

Auto Ref-Keratometer ACCUREF K-900



Cool design & User friendly!
This is new "SHIN-NIPPON" standard.

Auto Ref-Keratometer/Refractometer

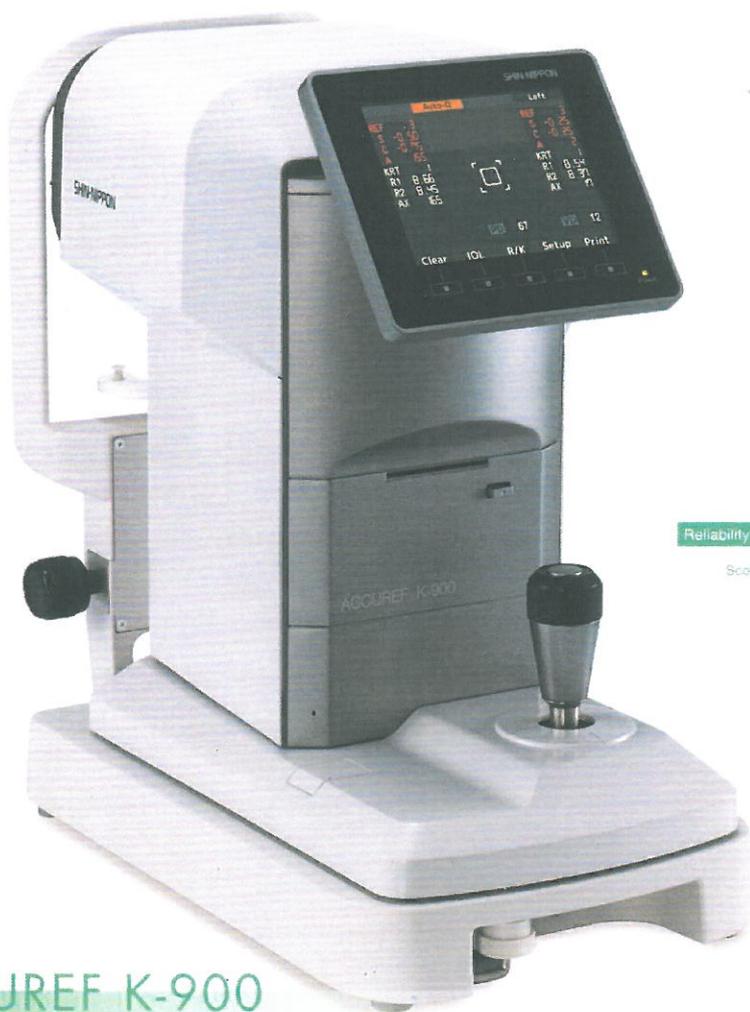
ACCUREF
K-900/R-800

Introducing our new Auto Ref-Keratometer & Auto Refractometer!!

In the pursuit of quality and ergonomics, the highest

Slim, Compact & Stylish Design

A new flat screen monitor with a beautiful graphics display and excellent visibility. Sophistication contained within a simple and compact body design. In the pursuit of ergonomics, minute attention to detail has been paid to materials, texture and finish in order to ensure superb operability. At last, a solidly reliable optical unit. Focus on high quality for each and every component has resulted in the creation of the Auto Ref-Keratometer that will set the standard for the new generation.



ACCUREF K-900

Feather-touch sensor button

The feather-touch sensor button used to interface with the screen enables sensitive and accurate operation.



Newly designed optical unit with further improved accuracy.

The newly designed optical unit allows measurement of the minimum pupil diameter up to 2.0 mm and high-accuracy measurement. Useful function for actual measurement such as display of reliability warning indicator has been added.

When all setting items are enabled

: ABCDEFGHI JKLMNOPQRSTUUVWX; : abcdefghi jklmnopqrstuvwxy;		Message Area	
No.	00001	Date & Time	
NAME	2011 11 22 14:30	Photopic Pupil Diameter	
VD-12		Ref Value	
<-> SPH	CYL	AX	PPS
1	-3.87	-0.75	172 5.4
2	-3.87	-0.75	170 5.3
AVE	-3.87	-0.62	174 5.4
SPS	-3.87	-0.75	172 5.4
Reliability Warning Indicator		Ref Representative Value	
Scotopic Pupil Diameter	7.3		
<-> mm	D	AX	
R1	8.43	40.00	9
R2	8.21	41.12	99
AVE	8.32	40.62	
CYL	-1.12	9	
R1	8.43	40.00	10
R2	8.22	41.12	100
AVE	8.32	40.50	
CYL	-1.12	100	
R1	8.30	40.62	2
R2	8.16	41.37	92
AVE	8.23	41.00	
CYL	-0.75	2	
R1	8.31	40.62	180
R2	8.17	41.37	90
AVE	8.24	41.00	
CYL	-0.75	180	
Residual Astigmatism	REST	-0.12	90
<-> SPH	CYL	AX	PPS
1	-3.75	-1.12	13 6.6
2	-3.75	-1.12	16 6.6
3	-3.75	-1.12	14 6.6
SPS	-3.75	-1.12	14 6.6
SPS	5.9		
Near PD			
Far PD	PD = 65 NPD = 62 (60)		
SHIN-IPPON ACCUREF K-900			
Interpupillary Measurement Function			

New Generation DESIGN & STYLE

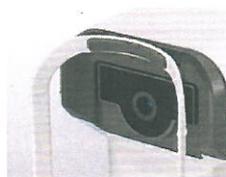
Exquisite detail and quality. Sophisticated shape combined with soft curves and the attractive color with high quality two-tone metallic and pearlescent paintwork which complements any interior and appeals atmosphere of trust to the customer.

New Joystick



The completely redesigned joystick with the shape and top button allows the operator to control the unit with more precise and instinctive movement.

Improved side flaps, head rest and chin rest



Side flaps mounted to each side of the measurement window enabling to block out the light realizes high accuracy. The modified shapes of the forehead rest and the chin rest help to minimize stress of the patient.

t level of perfection and beauty has been achieved.

Simple & Easy Operation

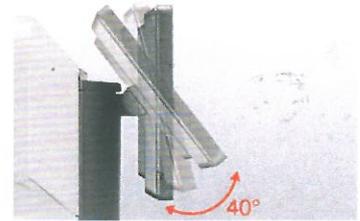
A swivel function to the left (30°) and a vertical tilt function (40°) have been added to the monitor unit.

This swivel function allows measurement while supporting the patient. The operational screen has been also redesigned completely.

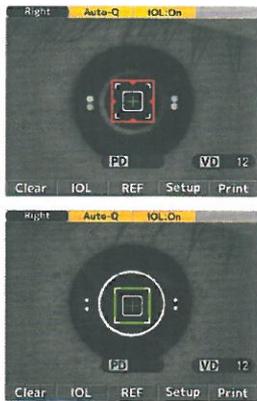
The well organized color plan/layout of the high-luminance color LCD panel makes the screen display extremely easy to read.

Expanded vertical tilt range

The adjustment range of the vertical tilt angle has been expanded to 40°. The unit can comfortably be operated from both seated and standing positions.



Newly designed IOL Mode [color focus indicator]

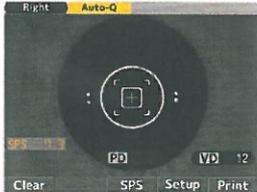


Color changes to green when focus is achieved

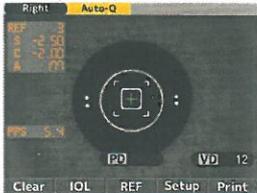
A subject with IOL was conventionally difficult to measure but this newly designed IOL mode has made it much easier.

Scotopic & Photopic Pupil Diameter Measurement

Scotopic measurement [S.P.S. function]

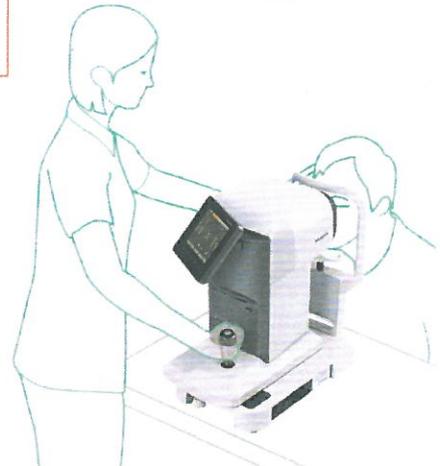


Photopic measurement [P.P.S. function]



Both scotopic and photopic measurements are available.

※ S.P.S: Scotopic Pupil Size
P.P.S: Photopic Pupil Size



Also introducing our new sister model Auto Refractometer ACCUREF R-800!!
A high-definition model made to the same specifications as K-900, excluding kerato measurement.



ACCUREF R-800

ACCUREF K-900/R-800

SPECIFICATIONS		K-900	R-800
Refractive measurement range (Ref measurement)	Sphere (S)	Measurement range	-30D~+22D (VD=12) -22D~+30D (VD=0) <i>p.2.1</i>
		Unit	0.12D, 0.25D (Switching) <i>p.2.2</i>
	Cylinder (C)	Measurement range	0D~±10D (VD=0) <i>p.2.3</i>
		Unit	0.12D, 0.25D (Switching) <i>p.2.4</i>
		symbol	- , + , ± (Switching)
	Axis (A)	Measurement range	0°~180° <i>p.2.5</i>
Unit		1° <i>p.2.6</i>	
Vertex distance		0, 10, 12, 13.5, 15mm <i>p.2.8</i>	
Minimum pupil diameter measurable		φ2.0mm <i>p.2.10</i>	
Corneal curvature radius measurement	Corneal curvature radius	Measurement range	5.0mm~10.0mm <i>p.2.11</i>
		Unit	0.01mm <i>p.2.12</i>
	Corneal refractivity	Measurement range	33.75D~67.5D (where corneal refractive index n=1.3375) <i>p.2.13</i>
		Unit	0.12D, 0.25D (Switching) <i>p.2.14</i>
	Degree of corneal astigmatism	Measurement range	0D~±10D <i>p.2.15</i>
		Unit	0.12D, 0.25D (Switching)
		symbol	mm, -D, +D (Switching)
	Axis angle	Measurement range	0°~180°
Unit		1° <i>p.2.16</i>	
PD measurement	Measurement range	85mm(Near PD output) <i>p.2.17</i>	
	Unit	1mm	
Pupil diameter measurement	Measurement range	φ2.0mm~φ8.5mm <i>p.2.21</i>	
	Unit	0.1mm <i>p.2.22</i>	
Measurement time	Refractive measurement range	Approx. 0.07sec. <i>p.2.9</i>	
	Corneal curvature radius measurement	Approx. 0.07sec.	
Fog control	Fogging for each measurement (Auto)		
	Fogging is provided at the first measurement followed by continuous measurement (Auto-Quick)		

K-900/R-800 Standard Accessories

- Operation Manual
- Power cord
- Printer paper
- Fuse
- Dust cover
- Model eye
- Chin rest paper
- Chin rest paper pin

MECHANICAL SPECIFICATIONS

Size	(W) 240mm (D) 422mm (H) 430mm
Movement range of the measurement unit	Forward/backward ±22mm Horizontal direction ±43mm <i>p.2.23</i> Vertical direction ±17mm
Movement range of the chin rest	vertical ±30mm
Movement range of LCD	+30°swivel (left only), +40°tilt <i>p.2.24</i>
Weight	approx. 13kg <i>p.2.28</i>

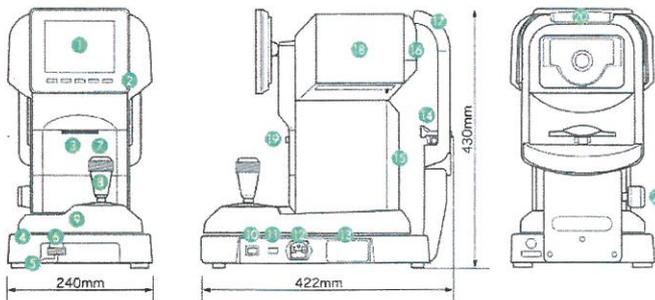
※ Common to K-900/R-800

ELECTRICAL SPECIFICATIONS

Built-in monitor body	5.7 inch color LCD monitor <i>p.2.24</i>
Printer	thermal line printer (paper width 58mm) <i>p.2.26</i>
Power voltage/frequency	AC100V-240V, 50/60Hz <i>p.2.28</i>
Power consumption	60VA
Power saving function	OFF, 3, 5, 10min. (selectable) <i>p.2.27</i>

※ Common to K-900/R-800

External diagram (to scale) and Part Identification



- | | |
|-------------------------------|------------------------------------|
| 1 LCD monitor | 11 RS-232C connector |
| 2 Touch sensor panel | 12 Power plug connector |
| 3 Printer cover | 13 Rating plate |
| 4 Base | 14 Chin rest |
| 5 Rubber feet | 15 Body cover |
| 6 Main unit sliding lock knob | 16 Face panel |
| 7 Measurement start switch | 17 Head rest |
| 8 Joystick | 18 Head cover |
| 9 Sliding base cover | 19 Printer cover open/close button |
| 10 Power switch | 20 Rubber head rest |
| | 21 Chin rest knob |

Manufacturer

Rexxam
Rexxam Co.,Ltd.

Kagawa factory
958, Ikeuchi, Konan-cho,
Takamatsu, Kagawa 761-1494, Japan

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Design and specifications are subject to change without notice.

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TOKYO 135-8071, JAPAN
TEL: 813-3528-4416 FAX: 813-3528-4426
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**AUTO REFKERATOMETRAS
ACCUREF-K 900**



Specifikacija

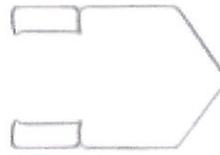
Refrakcijos matavimo ribos	Sfera	-30 iki +30 D	(žingsnis: 0.12/0.25D)
	Cilindras	0- ±10D	(žingsnis: 0.12/0.25D)
	Ašis	0-180	(žingsnis : 1 ⁰)
Keratometrijos matavimo ribos	Matuojamos ragenos kreivumas 5.0-10.0mm (žingsnis: 0.01 mm)		
	Ragenos refrakcija	33.75-67.5D	(žingsnis: 0.12/0.25D)
	Cilindras	0± 10D	(žingsnis: 0.12/0.25D)
	Ašis	0- 180	(žingsnis : 1)
Vertex atstumai	0, 10, 12, 13,5, 15mm		
Minimalus vyzdžio diametras	2 mm		
PD matavimas	85 mm		(žingsnis : 1)
Spausdintuvas	Popieriaus storis 57 mm		
Monitorius	5.7 LCD		
Valdymas	sensorinis, 3 žingsniais norima kryptimi, paliečiant ekraną		
Pagrindo judesiai	pirmyn/ atgal ± 22 mm		kairėn/dešinėn ± 43mm
	Aukštyn/ žemyn 17 mm		
Vertikalus smakro atramos reguliatorius	± 30 mm		
Išmatavimai	240 mm(W) x 422 mm(D) x 430 mm (H)		
Svoris	13 kg		
Maitinimas	10-240 V, 50/60Hz		
Suvartojimas	60VA		
Energijos taupymo funkcija	OFF, 3,5,10 min.		
Integruota RC-232C			

Standartiniai priedai

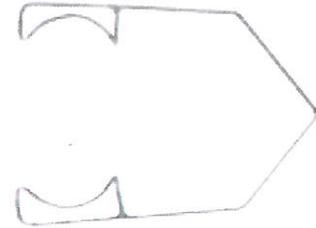
Vartotojo instrukcija, patikrinimo akies modelis, spausdintuvo popierius, uždangalas, smakro atramos padėkliukai, saugikliai.

Speculums

Barraquer p. 3.1; p. 4.1
 Wire Speculum
K1-5000 standard wire, 10mm blades
K1-5009 heavy wire, 15mm blades p. 3.2
K1-5010 standard wire, 15mm blades p. 4.2
K1-5355 infant size, 9mm blades

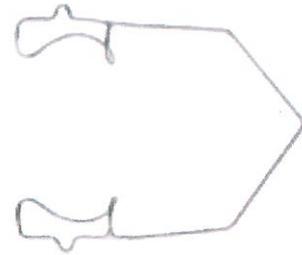


K1-5355

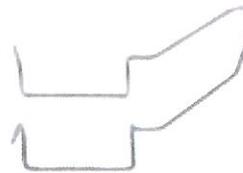
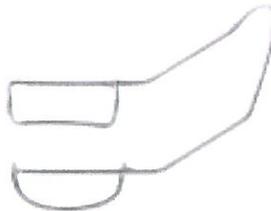


K1-5010

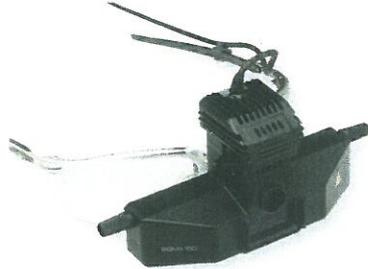
Grandon-Barraquer
 Wire Speculum
 with suture notches
 Used to obtain additional traction
 for the upper eyelid.
K1-5011 15mm blades



Temporal Approach
 Wire Speculum
 with spring on nasal side
K1-5012 15mm closed blades
K1-5015 15mm open blades
K1-5014 15mm solid blades



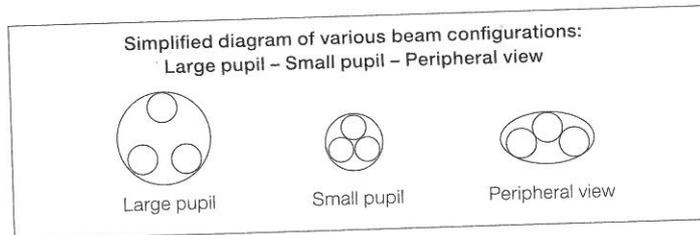
HEINE SIGMA® 150 Binocular Indirect Ophthalmoscope
Ophthalmoscope for spectacle and headband 5.1



The Spectacle Indirect Ophthalmoscope for any pupil size. Two separate controls let you select the **ideal setting for parallax and convergence to suit any pupil.** The illumination beam can be adjusted by $\pm 3^\circ$ to eliminate reflexes.

- ∴ 6V/5W XHL Xenon Halogen bulb. Bright, white light. 5.4.
- ∴ Illumination beam adjustable $\pm 3^\circ$. Eliminates reflexes. 5.8
- ∴ Integrated red-free filter. Improves contrast. Versatile, fully-equipped. 5.6
- ∴ Detachable blue and yellow filters. For Fluorescence Angioscopy.
- ∴ Dust proof. Maintenance-free. 5.8
- ∴ P.D. selection from 48 to 74 mm. Suits any user. 5.7
- ∴ Optics on swivel mount. Unrestricted view.
- ∴ Extremely light, 90g without frame. Light and comfortable.
- ∴ Carbon Fiber Instrument Frame. Light but very durable.
- ∴ Large and small apertures. 5.5
- ∴ Optional clip-in correction frame for prescription lenses.

Ultra light
For any pupil size
Dust proof



HEINE SIGMA® 150 Accessories



S-FRAME for SIGMA 150 and 150M2 Indirect Ophthalmoscope [01]	C-000.33.036
Teaching mirror [02]	C-000.33.302
Blue filter [03]	C-000.33.313
Yellow filter [04]	C-000.33.314
Diffusor [05]	C-000.33.315
Case for filters, empty [06]	C-000.33.316
XHL Xenon Halogen spare bulb 6V/5W [07]	X-004.88.093



03
04
05
06
07
08
09
10



HEINE SIGMA® 150 Kits



SIGMA 150 with S-FRAME

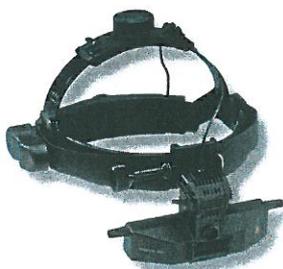


SIGMA 150 Kits	Without Power Source	With mPack
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SIGMA 150 with S-FRAME		
SIGMA 150 S-FRAME Retaining Cord Cleaning Fluid	C-004.33.350	C-004.33.351



SIGMA 150 M2 with S-FRAME and Micro Spot Aperture (instead of small aperture)		
SIGMA 150 M2 S-FRAME Retaining Cord Cleaning Fluid	C-004.33.355	C-004.33.356



SIGMA 150K on headband

SIGMA 150K on ergonomical headband with leather cushions, adjustable for circumference and height. Without headband rheostat.		
SIGMA 150 on Headband	C-004.33.325	C-004.33.329

5.10

SIGMA 150K M2 on ergonomical headband with leather cushions, adjustable for circumference and height. Without headband rheostat. With Micro Spot Aperture (instead of small aperture)		
SIGMA 150 M2 on Headband	C-004.33.335	C-004.33.336



HEINE SIGMA[®] 150 Sets



SIGMA 150 Sets	With mPack	With EN50 transformer	With EN50 and mPack
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SIGMA 150 Set on S-FRAME

SIGMA 150			
S-FRAME			
Scleral Depressor Small			
Scleral Depressor Large			
A.R. 25 D Ophthalmology Lens			
Teaching Mirror			
Cobalt Blue and Yellow Filters	C-281.40.670	—	—
Diffusor			
Retaining cord			
Cleaning Fluid			
Spare Bulb			
Carrying Case			

SIGMA 150 K Set on Headband

SIGMA 150			
Scleral Depressor Small			
Scleral Depressor Large			
A.R. 25 D Ophthalmology Lens	5.9		
Teaching Mirror			
Cobalt Blue and Yellow Filters	C-278.40.670*	C-278.40.300	C-278.40.302
Diffusor			
Spare Bulb			
Carrying Case (Hard Case)			

* incl. 2m Extension Cord Cinch-Cinch

For mPack and EN50 table/wall unit please see pages 150 – 151.





HEINE® mPack/HEINE® mPack LL

Portable Power Packs



- ✦ Li-ion Battery
- ✦ Battery Capacity Indicator
- ✦ Fast Charge

The mPack is only compatible with OMEGA500, OMEGA200, SIGMA 150, SIGMA 150 M2, SIGMA 150K, SIGMA 150KM2, Hand-held Indirect Ophthalmoscope MONOCULAR, Hand-held Indirect Ophthalmoscope BINOCULAR, BETA Cord Handle, 3S LED HeadLight.

The mPack LL is only compatible with LED LoupeLight and LED MicroLight.

- ✦ **Brightness control from 0,5 – 100 %**
- ✦ **Capacity:** 17 hours from fully charged under full load.

- ✦ **Freedom from cables** that tie the user to desk, wall or static power supplies.
- ✦ **Triple the Capacity with Li-ion Technology.** Compared with current NiCd systems. When fully charged at least 3x the capacity of conventional NiCd systems. More than double of other Li-ion systems. No memory effect.
- ✦ **Fast Charge.** Charges to full capacity in just 2 hours.
- ✦ **Charge status display.** Always lets you know how much operating charge you have left.
- ✦ **Flexible Charging Options.** Charge in the EN50 Charger base station, or with mobile plug-in transformer.
- ✦ **Intelligent.** Automatically switches to "charge" mode when inserted in EN50. Can also be used as mains power supply even while in "charge" mode.
- ✦ **Automatic remote power adjustment** for compatibility with all HEINE 6V and selected LED instruments.
- ✦ **Stepless light intensity control.** Optimum brightness setting prevents reflexes.
- ✦ **100 – 240V Compatible Transformer** incl. 4 plugs for world wide compatibility.



[01]



[02]

5.2



[04]

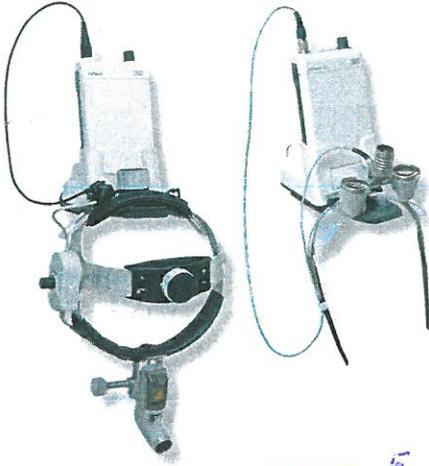


[03]

mPack /mPack LL	6V
EN50-m Charger Wall/Table Unit with mPack , (incl. 90° Angled Adaptor, Instrument support for Professional L Headband [01])	X-095.17.302
same, with mPackLL and instrument support for S-FRAME [02] and Professional L Headband [01]	X-095.17.303
mPack with Li-ion rechargeable battery and plug-in transformer	X-007.99.672
mPackLL with Li-ion rechargeable battery and transformer	X-007.99.660
mPack with Li-ion rechargeable battery, without transformer	X-007.99.671
mPackLL with Li-ion rechargeable battery, without transformer	X-007.99.661
Li-ion rechargeable battery for mPack/mPackLL	X-007.99.676
Plug-in transformer for mPack/mPackLL [04]	X-095.16.315
Plug-in 90° Angled Adaptor (for EN50 Charger/mPack and mPackLL) [03]	C-000.33.509

Wall-/Table-Transformer HEINE® EN 50

Modular Power Supply System/charger



The HEINE Modular Power Supply System offers unsurpassed flexibility and innovative new features. The EN 50 powers OMEGA500, 3SLED HeadLight, LED MicroLight and LED LoupeLight. Furthermore, all other HEINE 6V products are compatible. The EN 50 Charger, the mPack/mPack LL and HC50 L Headband Mounted Rheostat can be combined in every conceivable configuration.

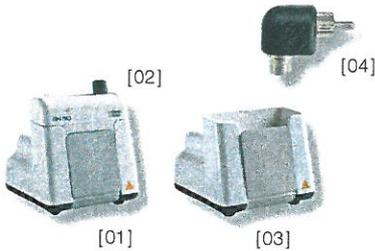
- ✦ **Modular, compact design** functions as the base for Tabletop or Wall Mounted use and as charging base for the mPack and mPack LL mobile charging system.
- ✦ **Upgradeable.** mPack Charging base by simple removal of the control module.
- ✦ **Soft Start Technology.** A gradual introduction of current reduces bulb "shock" and extends bulb life.
- ✦ **100 – 240V Compatible Transformer** incl. 4 plugs for world wide compatibility.
- ✦ **Registered Design.**

- ✦ Modular Power Supply System
- ✦ Soft Start Technology
- ✦ Switches off automatically

5.2

5.3

EN50 Charger	6V
EN 50 Transformer table/wall unit with Rheostat Control Module (incl. 90° Angled Adaptor, Extension Cord Cinch-Cinch 2m, Instrument support) [01]	X-095.17.301
Rheostat Control Module for EN 50 [02]	X-095.17.305
EN 50 Base unit (without Rheostat Control Module) [03]	X-095.17.300
Plug-in 90° Angled Adaptor (for EN 50/mPack/mPack LL without instrument support) [04]	C-000.33.509
Instrument support for Headband	C-000.33.511
Instrument support for S-FRAME and LED LoupeLight	C-000.33.512

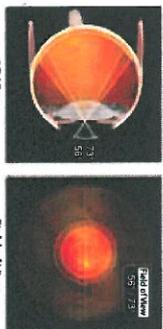




Available in 7 different colors

Pan Retinal® 2.2
Primary Application – Excellent for General Diagnosis and Treatment

- Balance of magnification and field of view for general diagnosis
- Optimized design facilitates examination through small pupils



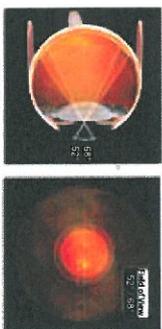
Product code: VP9C



P. 5.9

25D
Primary Application – Median Field Diagnosis and Treatment

- Lower magnification decreases working distance
- Smaller diameter facilitates manipulation within the orbit



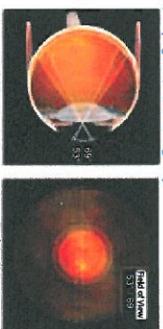
Product code: V25LC



Available in 7 different colors

28D
Primary Application – Ideal for fundus scanning

- High resolution provides excellent fundus imaging
- Excellent for small pupil diagnosis and treatment
- Available in AutoClave Sterilizable (ACS*) Design (see page 26) - (black ring only)

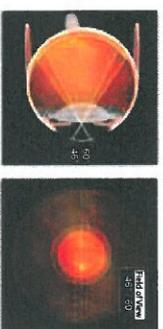


Product code: V28LC



30D Small
Primary Application – Small Pupil and Pediatric Diagnosis and Treatment

- Optical design delivers high resolution views through a small pupil
- Small profile lens for ease of use within the orbit during examination

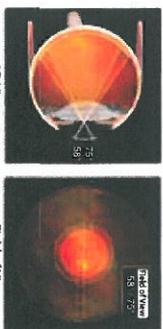


Product code: V30S5C



30D
Primary Application – Small Pupil and Pediatric Diagnosis and Treatment

- Optical design delivers high resolution views through a small pupil
- Short working distance delivers wide field of view

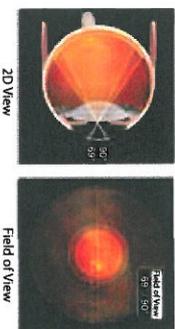


Product code: V30LC



40D
Primary Application – Small Pupil and Pediatric Diagnosis and Treatment

- Widest field of view of any BIO lens delivers high resolution views through a small pupil
- Can be used at a slit lamp to provide ultra high magnification views of the posterior pole

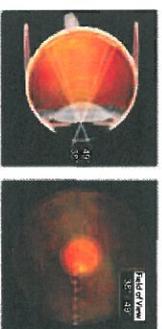


Product code: V40LC



Digital ClearMag
Primary Application – Upgrade for your 14D/15D lens.

- Highest Resolution High Magnification Optic Disc and Posterior Pole Examination

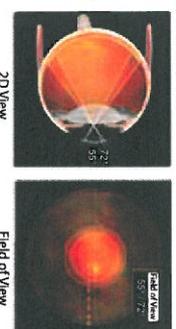


Product code: V08TLCM



Digital ClearField
Primary Application – Upgrade for your 20D/Pan Retinal 2.2.

- Highest Resolution Pan Retinal Examination. Great for small pupils.



Product code: V03TLCF

Digital Series Indirect BIO Lenses

Key benefits :

- Low Dispersion glass delivers enhanced resolution
- Reduced ring diameter and working distance facilitate lens manipulation
- Advance A/R coating minimizes reflections and glare.



Netiesioginis oftalmoskopas Sigma 150, Heine(Vokietija)

Techninė specifikacija:

- Dėvimas ant galvos binokuliarinis netiesioginio vaizdo oftalmoskopas;
- Oftalmoskopas maitinamas iš akumuliatorinės baterijos, pateikiamas komplekte su įkrovikliu;
- Reostatas tolygiam šviesos intensyvumo reguliavimui;
- Ksenoninė – halogeninė lemputė, 6V/5W;
- Oftalmoskopo apertūros;
- Integruotas beraudis filtras;
- Tarpvyzdinio atstumo reguliavimo ribos 48-74mm;
- Komplektuojamas su 25D lęšiu;
- Tvirtinimo šalmas lengvas, su paminkštiniu, reguliuojamas.

SL-95 SPECIFICATION

Type	Binocular, Galilean-Type
Magnification Changing Method	5 Step Drum Rotation
Eyepieces	x12.5 High-Eyepiece
Filter for Eyepieces	Yellow Filter
Total Magnification	x153, x170, x186, x205, x240
Field of View	φ37, φ23, φ14, φ9, φ5.9mm
Pupillary Distance	50mm ~ 60mm
Diopiter Adjustment Range	±7D
Working Distance (Back & Front)	100mm
Working Distance (Left & Right)	100mm
Working Distance (Up & Down)	30mm
Vertical Working Distance	70mm
Fixation Target	Tungsten
SLIT Width	0 ~ 15mm Continuous
SLIT Length	0.2, 1.3, 5, 8, 15mm
Light Source (Bulb)	6V 20W Halogen
Filter	Cobalt, Heat Absorption, Green
Voltage	AC 100-120V, 220V, 240V
Power Input	50VA
Weight	20 ~ 22kg
Size	480mm(W) x 410mm(D) x 670mm(H)

STANDARD ACCESSORIES

- Operation Manual
- Power Cable
- Dust Cover
- Chin-rest Paper
- Replacement Halogen Lamp
- Test Bar
- Breath Shield
- Spare Fuse
- Replacement Fixation Light Bulb
- Allen Key

SL-40 / 45 / 45DX SPECIFICATION

Type	Binocular, Galilean-Type
Magnification Changing Method	Drum Rotation 5 Step
Eyepieces	x13.5 High-Eyepiece (x16.5 available as an option)
Total Magnification	x198, x216, x234
Field of View	φ20, φ13, φ8mm
Pupillary Distance	49mm ~ 60mm
Diopiter Adjustment Range	±5D
Working Distance (Back & Front)	72mm
Working Distance (Left & Right)	100mm
Working Distance (Up & Down)	30mm
Vertical Working Distance	70mm
Fixation Target	Tungsten
SLIT Width	0 ~ 15mm Continuous
SLIT Length	0.2, 1, 3, 5, 8, 15mm
Light Source (Bulb)	6V 20W Halogen
Filter	Cobalt, Heat Absorption, Green
Voltage	AC 100-120V, 220V, 240V
Power Input	50VA
Weight	20 ~ 22kg
Size	480mm(W) x 410mm(D) x 670mm(H)

SL-40 / 45 / 45DX OPTIONAL ACCESSORIES

- Micro-Pix (Foot Switch Included)*
 - Torometer
 - CCD Camera*
 - Beam Splitter*
 - Back Light*
 - Measuring Eyepiece (x10)**
- * Can not be used for SL-40/45
 ** is same manufacturer as the enfield
 Slit Lamps
 (None indication is other manufacturer's product)

AIINOMOTO

AIINOMOTO TRADING, INC.
 SHIN-NIPPON Medical & Ophthalmic Instruments Dept.
 EAST WING 7F, TFT BUILDING, 3-6-11 ARIAKE, KOTO-KU,
 TOKYO 135-8071, JAPAN
 TEL.: 813-3528-4416 FAX: 813-3528-4426
 http://www.shin-nippon.jp http://www.ai-trade.com



Manufacturer
TOUR
 TOWA MEDICAL INSTRUMENTS Co., Ltd.
 1698-2 Oaza Nakano Nakano-shi, Nagano-ken, 383-0013 Japan

Distributed by



Hi-Standard model to enforce
 our Slit Lamp line-ups

New Hi-Standard Series
 SLIT LAMP

SL-95

45DX / 45 / 40

New Hi-Standard Series

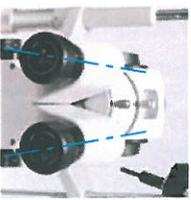
Complete Silt Lamp line-ups to meet various needs and requirements.

SL-95

In pursuit to user's need of daily examination, SL-95 is a model that improved in optics and illumination system to meet various requirements. This model is very user friendly and easy to use and also, the digital camera system is attachable for custom usage. We proudly announce the "New Generation Hi-Standard Model".

Convergence Optics

12degree convergence optics for easy image fusion. Newly designed optical alignment affording wider visibility in the eyepiece.



Built-In Yellow Filter

Internal yellow filter may be conveniently switched in/out quickly for fluorescein techniques.



5 STEP MAGNIFICATION MODEL
(x6.5, x10, x16, x25, x40)



Illumination Improvement (Brightness Increase x 1.8)

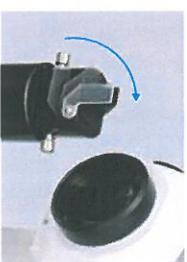
Revised and redesigned the illumination pathway and increased the illumination using the same light bulb. (20W) Brightness comparison against our existing 20W model.

Expanded Silt Width & Height

A wider silt width & longer silt height capability are attractive features when combined with our new wide field optics.
Silt width: 0-15mm
Silt height: 0.2, 1, 3, 5, 8, 15mm / 0.5 - 15mm

Diffuser

Standard adjustable diffuser for clear image capturing.



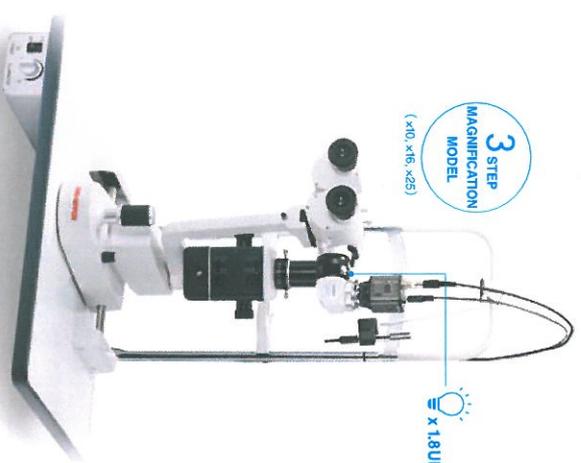
3 STEP MAGNIFICATION MODEL
(x10, x15, x25)



2 STEP MAGNIFICATION MODEL
(x10, x16)



SL-45DX / 45 is the standard model that holds every basic function and is also capable to attach digital camera to suit the user's various examination. *Digital camera can only be mounted to SL-45DX



SL-40

SL-40 is the basic model that is specialized for every basic function and usability. It is very easy to operate and also capable for quick, precise examination.

DIGITAL CAMERA SYSTEM

Digital Camera System "Pro-Pix DC-200" is available as an option for Model: SL-95 and SL-45DX.

Database Software - Standard with Pro-Pix

Software which can be installed into your PC for Photo and Video of patient examinations. Stilled images may be edited.



Power Cable Not Required

Pro-Pix Camera is powered by the USB port of your PC, helps to reduce additional cable clutter.

Specs	
Camera	1/2inch CMOS camera 1600 x 1200 pixel
Power source	USB 2.0 5V 5A



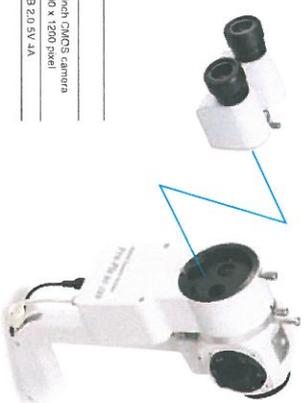
Wide Field & High Eye point Eyepiece Design

With our newly created wide field optics, we have successfully increased the actual field of view. Wider fields of view as 97.23, 14.6, 9.5 & 5.9 mm are achieved. With the new high-point eyepiece feature, eye exams are performed in a more natural, comfortable manner.

Foot Switch



Upon using the digital camera system, the foot switch will let you easily and quickly take pictures of the patient's eye during examination. *Digital Camera System "Pro-Pix DC-200" is an option.



p. 6
p. 6, 15



SL-40 PLYŠINĖ LEMPA

Specifikacija

Okuliaras 10,0x, galimybė pasirinkti 18,0x

Didinimas 10x (17 m/m ϕ), 16x (13 m/ m ϕ) ir 16x (10,5 m/ m ϕ)

PD atstumas SL-40 52 - 81 mm

Dioptrijų paderinimas: -5 iki +5.

Plyšio plotis nuosekliai keičiamas nuo 0 iki 15mm.

Plyšio ilgis nuosekliai keičiamas viršutinė riba 15, 8, 5, 3, 1 ir 0,2 mm

Filtrai: Kobalto mėlynas, žalias ir karštį atspindintis, geltonas.

Lempos apšvietimas Halogeninė lemputė, 6V, 20W

Instrumento bazės eiga

Išilgai pagrindo 72 mm

Horizontaliai pagrindo 100 mm

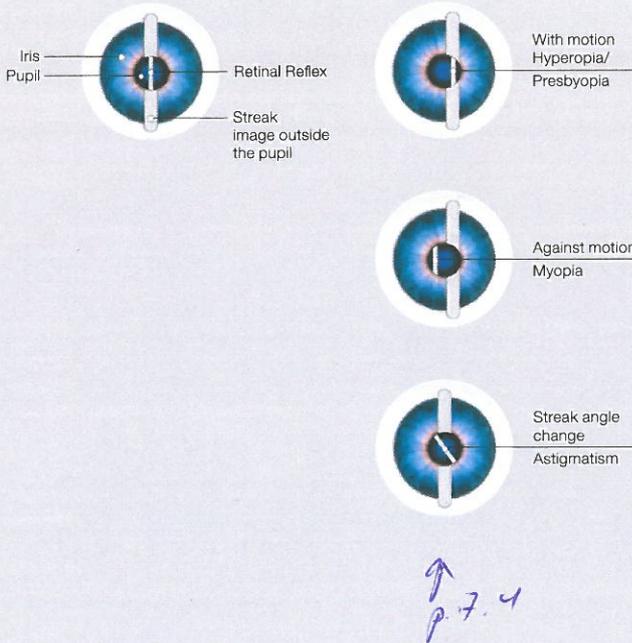
Vertikaliai 30mm

Smakro atrama

Vertikaliai 70 mm

Maitinimas

AC 100V, 115V, 220V ir 240 V,



Hand-held retinoscopes for objective refraction.
The BETA200 Retinoscope is used for exact measurement of refractive error. Both myopia and hyperopia and astigmatism can be measured.

Two versions are available:
The Spot Retinoscope with a round light spot and the more widely-used Streak Retinoscope with a streak image which simplifies the examination.

HEINE ParaStop and polarisation filter.
The BETA200 Retinoscope with ParaStop features the latest multi-coated optics for an exceptionally bright fundus reflex and easier detection of the neutralization point. ParaStop was developed by HEINE for the easy, precise selection of a parallel illumination beam. ParaStop simplifies and speeds up the precise detection of cylinder axis. ParaStop also simplifies the verification of the cylinder correction after refraction.

HEINE BETA® 200 Retinoscope with HEINE ParaStop® *p. 7.1*

HEINE ParaStop® for total precision in selecting a parallel beam



- ⌘ **ParaStop.** Precise, easy selection of a parallel beam.
- ⌘ **Ergonomic shape.** Protects the examiner's orbita from stray light.
- ⌘ **XHL Xenon Halogen Technology.** Bright, white light. Bright fundus reflex, easy recognition of neutralization point. *p. 7.4*
- ⌘ **Streak or spot Retinoscope.** Simply by changing the bulb.
- ⌘ **Metal controls.** Long-lasting.
- ⌘ **Single control for vergence and rotation.** Comfortable operation.
- ⌘ **Dustproof.** Maintenance-free.
- ⌘ **Integrated polarisation filter.** Eliminates stray light and internal reflexes for a brighter fundus reflex. *p. 7.5*
- ⌘ **Orange filter (optional).** Reduces patient dazzle without affecting the fundus reflex.
- ⌘ **Detachable brow rest.** Increased comfort and control during examination.
- ⌘ **Holder for fixation cards (optional).** For dynamic retinoscopy.

BETA 200 Streak Retinoscope	2.5V	3.5V
with XHL Xenon Halogen bulb, without handle	C-001.15.353	C-002.15.353
XHL Xenon Halogen spare bulb	X-001.88.087	X-002.88.089
XHL Xenon Halogen spare bulb to convert to spot retinoscope	X-001.88.088	X-002.88.090

Orange filter for the bulb, for light-sensitive patients [01]	C-000.15.359
Fixation cards with holder for dynamic retinoscopy	C-000.15.360

- ⌘ **Patented ParaStop**
- ⌘ **Metal controls**
- ⌘ **Dustproof**
- ⌘ **Streak or Spot Retinoscope by simply changing the bulb**



HEINE Ophthalmic Diagnostic Sets

Set complete with: **BETA200 Streak Retinoscope**
1 spare bulb
hard case



BETA200 Retinoscope Sets	2.5V	3.5V NiMH	3.5V Li-ion
BETA battery handle	C-034.10.118*		
BETA R rechargeable handle for mains socket		C-034.20.376	C-034.27.376
BETA TR rechargeable handle with plug-in transformer		C-034.20.384	C-034.27.384
BETA NT rechargeable handle and NT300 charger		C-034.20.420	
Ⓛ BETA L rechargeable handle and NT300 charger			C-034.29.420

* Available with large battery handle X-001.99.120 (doesn't fit into hard cases). Please specify with your order.

Set complete with: **BETA200S Ophthalmoscope, BETA200 Streak Retinoscope**
1 spare bulb for each instrument
hard case



BETA200S Diagnostic Sets	2.5V	3.5V NiMH	3.5V Li-ion
BETA battery handle	C-262.10.118		
BETA R rechargeable handle for mains socket		C-262.20.376	C-262.27.376
BETA TR rechargeable handle with plug-in transformer		C-262.20.384	C-262.27.384
BETA NT rechargeable handle and NT300 charger		C-262.20.420	
Ⓛ BETA L rechargeable handle and NT300 charger			C-262.29.420

Set complete with: **BETA200 Ophthalmoscope, BETA200 Streak Retinoscope**
1 spare bulb for each instrument
hard case



BETA200 Diagnostic Sets	2.5V	3.5V NiMH	3.5V Li-ion
BETA battery handle	C-145.10.118		
BETA R rechargeable handle for mains socket		C-145.20.376	C-145.27.376
BETA TR rechargeable handle with plug-in transformer		C-145.20.384	C-145.27.384
BETA NT rechargeable handle and NT300 charger		C-145.20.420	
Ⓛ BETA L rechargeable handle and NT300 charger			C-145.29.420

Ⓛ: Rechargeable handle with charge status display in the bottom insert.



Retinoskopas – Beta 200, Heine

Techninės specifikacijos:

Apšvietimas – ksenono - halogeninė technologija. 3,5 V ksenono - halogeninė lemputė.

Fiksacinė koretelė su laikikliu;

Atrama antakiams(nuimama);

Korpusas atsparus dulkėms;

Oranžinis filtras;

Integruotas poliarizuojantis filtras;

Komplekte su pakrovėju;

Baterija 3,5 V;

Rankena su integruotu pakrovimo lygio indikatoriumi;

Pakrovėjas su automatine krovimo apsauga.

Ant stalo dedamas rankenos laikiklis.

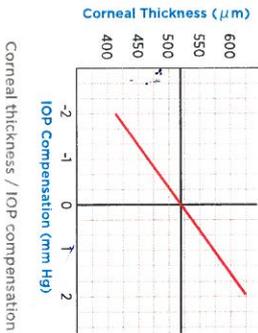


↑ P.P.5

CT-1P FEATURE

Corneal thickness measurements (CT-1P only)

The CT-1P provides compensated IOP values with central corneal thickness (CCT). Studies show that the CCT could affect IOP measurements, for example IOP values measured using a conventional tonometer are higher in eyes with a thicker cornea, and the diagnosis of normal tension glaucoma can also be affected by thin CCT.



* The formula can be manually adjusted.
 Reference: Saito K, et al. "Corneal thickness in an age-related healthy normal population."
 Ophthalmology 1999; 106: 2100-2106.



Specifications

Central pressure measurement	
Measuring range	1 to 30 mmHg / 1 to 40 mmHg (1 mmHg step)
Central thickness measurement	Average thickness / Minimum / Maximum thickness
Measuring range*	0.4 to 0.75 mm (0.01 mm step)
Monitor	3.5" TFT-LCD color CRT monitor (dark panel)
Data transfer terminal	USB (Printer 1, Printer 2, LAN (Printer 3))
Dimensions	296 x 226 (W) x 445 x 526 (D) x 86 x 49 (H) mm
Weight	3.3 kg
Power supply	100-240V AC 50/60Hz 35VA

P.8.2
P.8.4
P.8.21

System Chart



* Connect to the main unit of the Ring System configuration.

Subject to change in design and/or performance without advance notice.
 In order to obtain the latest results with this instrument, please be sure to review all user instructions prior to operation.

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 E-mail: eu@topcon.com
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 E-mail: sg@topcon.com
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 Fax: +65 (0)4 343-1112
 E-mail: cn@topcon.com
 Web: www.topcon.com
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 Fax: +65 (0)4 343-1112
 E-mail: za@topcon.com
 Web: www.topcon.com



Computerized Tonometer

CT-1 / CT-1P



TOPCON
 CONNECTING VISIONS

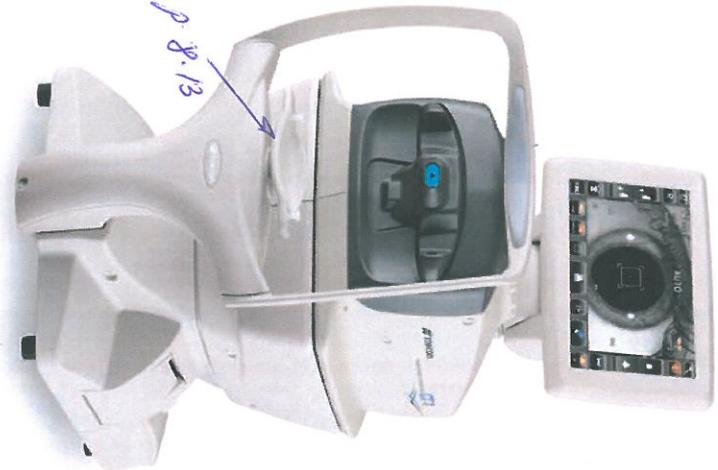
UNIQUE FEATURES OF THE CT-1 / CT-1P

CT-1/IP Fully automated with touch screen

The CT-1/IP takes automated operation to a new level. Simply touch the center of the pupil on the touch screen control panel and the CT-1/IP automatically obtains right and left eye information immediately. The CT-1/IP provides an innovative operation experience and eliminates the need for a control lever.



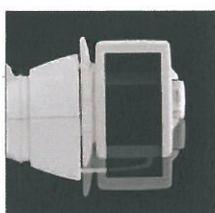
Fully automated! Just touch the center of the pupil!



Start



Right eye automatic R > L Movement Left eye



Data printout



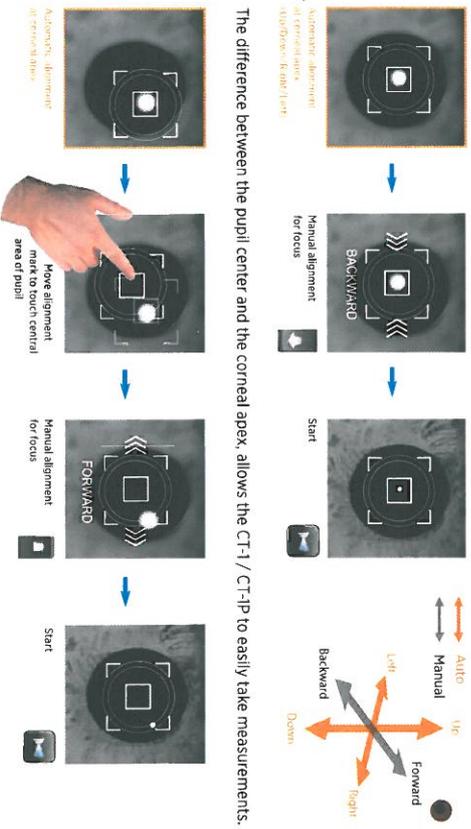
CT-1 / CT-1P FEATURES

Additional measurement mode

The additional measurement mode will save time and prevent extra work & inconvenience. The CT-1/IP will continue to measure until the required preset IOP measurement count is obtained.

Manual mode

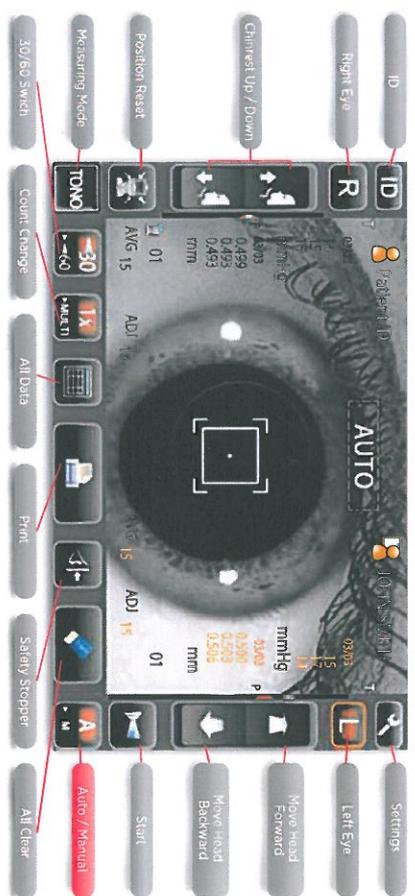
If required, the CT-1/IP can be set in a manual mode as well. Once the CT detects the pupil position, the movement will retain automated alignment and you simply press the Start button to begin the measurement.



The difference between the pupil center and the corneal apex, allows the CT-1 / CT-1P to easily take measurements.

Easy-to-use color touch screen control panel

All operating procedures can be performed with the touch screen control panel. The sophisticated buttons provide an intuitive operator experience. The CT-1/IP automatically takes measurement of the right and left eyes quickly and easily.



CT-1 / CT-1P FEATURES

Flexible & space saving lay-out

The adjustable touch screen control panel enables the operator to be positioned anywhere around the patient because the control panel can be faced in a number of different directions. The CT-1/IP can be positioned in a conventional set-up, against a wall, or even in a corner of a room.

The compact body enables the operator to support the patient easily from many different positions during measurement even when the patient's eye lid needs to be opened. These unique aspects will contribute to space saving and flexible layout in your eye examination room.

8.12



wall set up / behind patient



classic / conventional set up



corner set-up

Conventional position (Seated)



Front position (Seated)

NEW Style (Standing)



Ergonomic operation in standing position

NEW Style corner position



Side position

NEW Style wall position

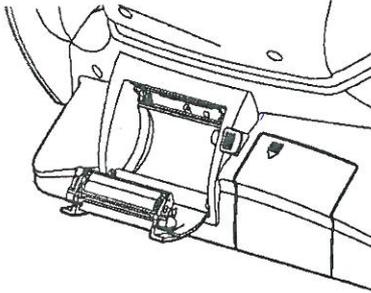


Rear position

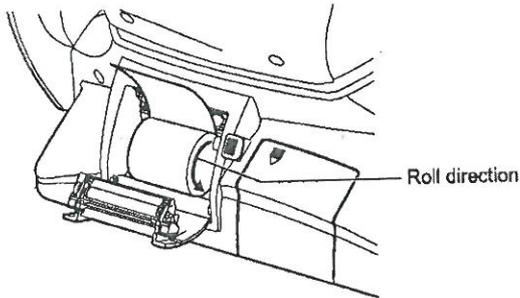
8.12

21

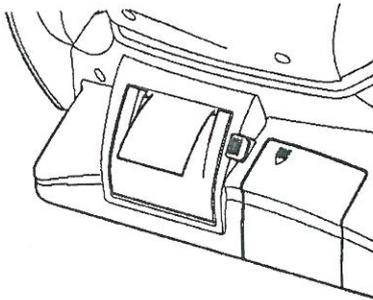
2 Open the printer cover to the limit.



3 Insert the printer paper in the direction shown below and pull out the paper end to your side by 7 to 8cm.



4 Bring the paper into the center, then close the printer cover.



NOTES

p.20

- In case the printer cover is not firmly closed, printing will not start, and "Close printer cover." will be displayed on the monitor screen.
- A 58mm wide paper roll (example: TP-50KJ-R [Nippon Paper Co.]) is recommended. Other paper rolls may cause an abnormal printing noise or an unclear print.

Ad



BEKONTAKTINIS TONOMETRAS

CT-1

TOPCON naujos linijos bekontaktis tonometras: CT - 1



Kairės/Dešinės akies automatinis atpažinimas ir rodymas;

Galimybė reguliuoti monitoriaus pasvyrimo ir pasukimo kampą;

Optinė galva su fiksavimo taikiniu 5° kampu žemyn

p- 3.6

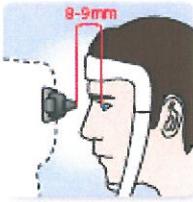
Matavimo būdas: Automatinis/ rankinis.

Minkšto oro gūσιο padavimas;

Automatinis rezultatų skaičiavimas ir rodymas;

Savikontrolės sistema;

Matavimo atstumas 8-9 mm



Prietaisas gali būti statomas prie sienos ir kampe;

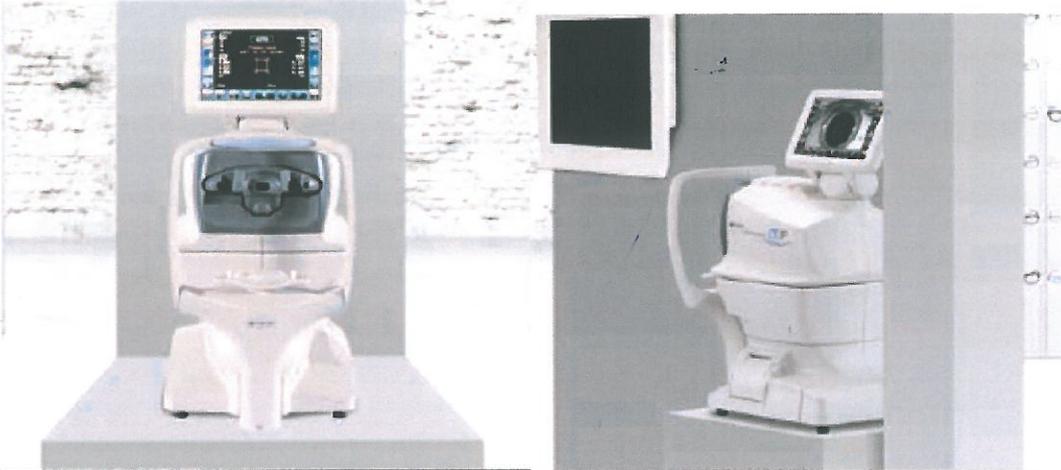
Pasmakrio laikiklis;



Automatinis išsijungimo režimas;

Integruotas filtras nuo dulkių pučiamam orui;

Prietaisas gali būti statomas prie sienos ir kampe:

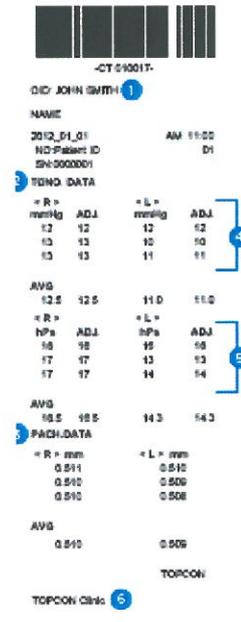


Klaidų rodymas IOP kai rezultatas nepakankamai stiprus.

Integruotas spausdintuvas;



Galimybė įsivesti ir spausdinti inicialus čekyje;



Komplektacijoje su oftalmologiniu elektriniu staliuku su ratukais.

SPECIFIKACIJA:

Techninė specifikacija

Matavimų diapazonas	
Akispūdzio matavimo riba	Dviejų diapazonų: 1) nuo 1 iki 30 mmHg 2) nuo 1 iki 60 mmHg
Ragenos storio matavimas	Nuo 0,4 iki 0,75 mm, tikslumas 0,001 mm
Matavimo atstumas	8-9 mm
Matavimų ekranas	Liečiamas 8,5 WVGA, LCD spalvotas monitorius
Optinė galva su fiksavimo taikiniu	5 ⁰ kampu žemyn
Matavimo būdas	Automatinis/ rankinis
Sujungimas su išoriniais įrenginiais	RS-232C jungtis, USB, LAN
Klaidų rodymas kai matavimo rezultatas nepakankamai stiprus	Rodoma IOP reikšmė arba „ERR“
Spausdinimo popieriaus plotis	58mm
Bekontaktinio tonometro energijos šaltinis	240V 50-60Hz, 75 VA
Prietaiso svoris	19,5 kg

Duomenų spausdinimui naudokite 58 mm pločio popierių: TF50KS-E2C. Kitas popierius gali sukelti spausdintuvo nepageidaujamas skleidžiamus garsus bei nekokybišką duomenų spausdinimą.

TRIAL LENS SET SERIES

SNC-35D TRIAL LENS SET



SPH: (+)0.12~20.00 35KINDS 70PCS
 SPH: (-)0.12~20.00 35KINDS 70PCS
 CYL: (+)0.12~6.00 17KINDS 34PCS
 CYL: (-)0.12~6.00 17KINDS 34PCS

SNC-28S PERIMETER TRIAL LENS-SET



PLUS CYLINDER SET
 SPH: (-)0.25~16.00 28KINDS 28PCS
 SPH: (+)0.25~16.00 28KINDS 28PCS
 CYL: (+)0.25~5.00 12KINDS 12PCS

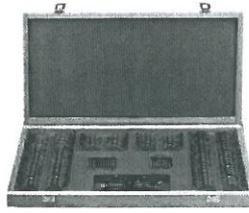
MINUS CYLINDER SET
 SPH: (-)0.25~16.00 28KINDS 28PCS
 SPH: (+)0.25~16.00 28KINDS 28PCS
 CYL: (-)0.25~5.00 12KINDS 12PCS

ST-1D CORRECTED CURVE TRIAL LENS SET



SPH: (+)0.12~20.00 43KINDS 79PCS
 SPH: (-)0.12~20.00 36KINDS 67PCS
 CYL: (+)0.12~6.00 18KINDS 36PCS
 CYL: (-)0.12~6.00 18KINDS 36PCS
 PRISM: 9KINDS 12PCS
 ACCESSORIES: 10PC

SNC-35 TRIAL LENS SET



SPH: (+)0.12~20.00 35KINDS 70PCS
 SPH: (-)0.12~20.00 35KINDS 70PCS
 CYL: (+)0.25~3.00 11KINDS 22PCS
 CYL: (-)0.25~3.00 11KINDS 22PCS

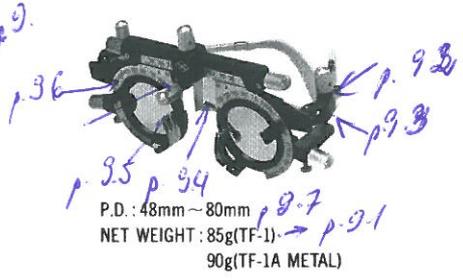
SNC-24 TRIAL LENS SET



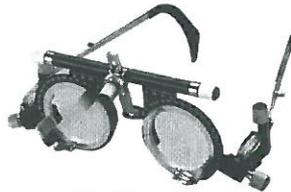
SPH: (+)0.12~10.00 24KINDS 48PCS
 SPH: (-)0.12~10.00 24KINDS 48PCS
 CYL: (+)0.25~2.00 8KINDS 16PCS
 CYL: (-)0.25~2.00 8KINDS 16PCS

TRIAL FRAME

TF-1/TF-1A UNIVERSAL TRIAL FRAME



TF-3 UNIVERSAL TRIAL FRAME



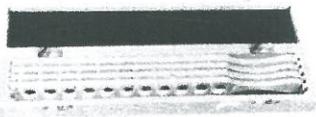
P.D.: 48mm~80mm
 NET WEIGHT: 60g

LIGHT UNIVERSAL TRIAL FRAME



P.D.: 56, 58, 60, 62, 64, 66mm
 NET WEIGHT: 39.5g~40.5g

SKIASCOPY



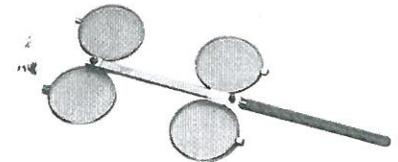
HATA: FIVE BARS, 55LENSES

CROSS CYLINDER



±0.25, 0.50, 0.75, 1.00

CONFIRMATION LENS



±0.25, 0.50

Design and specifications are subject to change without notice.

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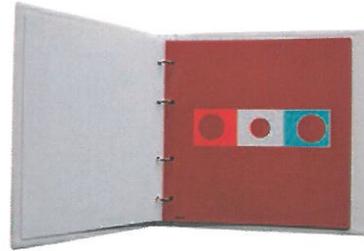
Accessories

STEREOSCOPIC TESTS



REF 7190038

Stereoscopic tests* fly / wirt's test (+ polarized frame)



REF 8630-1581-78

TNO test (7 charts + red green google)



REF 7190041

Stereoscopic tests* lang's test 1



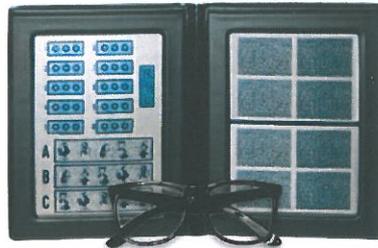
p. 10 REF 7190042

Stereoscopic tests* lang's test 2



REF 7190048

Stereotest polaroid frame



REF 8630-1418-95

Randot stereo test



REF 8630-1569-06

Frisby stereo test

WORTH TEST



REF 8630-1603-26

Near Vision Worth test

Accessories

COMPARIZON



REF 7190029

Confirmation tests Metal rings
+/-0.25 dpt



REF 7190030

Confirmation tests metal rings
+/-0.50 dpt



REF 7190031

Jackson cross cylinders metal rings
+/-0.25 dpt



REF 7190032

Jackson cross cylinders metal rings
+/-0.50 dpts

OCCUDERS



REF 7190039

White plastic occluder



REF 8630-1139-05

Black plastic occluder



REF 8630-1141-54

Glass of red handle



REF 7190040

Red multiple maddox rod



REF 8630-1650-10

Translucent Spielmann occluder

*↑
P. 11*



SuperOttik

Detergent for the new anti-reflex
Lenses, penetration

PG

33 ml e