

Marco TOTAL REFRACTION SYSTEM



SAMPLE PRINTOUTS

High-Speed Printer with Automatic Cutter



The TRS-5100 includes a built-in high-speed printer that automatically prints thermal tape. Print-outs are intended to serve

as hard-copy back-ups to the data sent electronically to the EMR.

Training

For many offices, Marco's highly trained sales staff is qualified to train doctors and staff how to realize the full benefits of the TRS system. In addition to this on-site training, Marco offers JCAHPO-certified training in the state-of-the-art Marco Institute of Vision Technology. Marco's online training center is available on demand 24 hours a day, seven days a week.



```

ID :
NAME: M/F
JAN/6/2012 1:39 PM
WD=40cm

--<R>--< UA >--<L>--
1 FAR 30 60
2 --<R>--< LM >--<L>--
FAR
+ 0.25 SPH - 0.25
- 0.75 CYL - 1.25
158 AXS 19
3 < 25> UA < 30>
PD
62.0
4 --<R>--< AR >--<L>--
FAR
+ 1.25 SPH + 0.25
- 0.75 CYL - 1.00
158 AXS 9
--<R>--< SUBJ >--<L>--
5 FAR
+ 1.25 SPH + 0.25
- 0.75 CYL - 1.00
158 AXS 9
+ 1.25 ADD + 1.25
UA
6 < 15> < 15> < 20>
PD
60.0
--<R>--< FINAL >--<L>--
7 FAR
+ 1.00 SPH + 0.25
- 0.75 CYL - 1.00
160 AXS 10
+ 1.25 ADD + 1.25
UA
8 < 15> < 15> < 20>
NEAR
9 + 2.25 SPH + 1.50
- 0.75 CYL - 1.00
160 AXS 10
UA
10 < 20> < 20> < 20>
11 --<R>--< KM >--<L>--
7.85 R1 7.81
43.00 43.25
7.68 R2 7.55
44.00 44.75
171 AXS 180

Test time 3:17
NIDEK RT-5100
    
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1	Unaided Acuties
2	Lensmeter Readings
3	Acuity with Glasses
4	Auto Refractor Readings
5	Subjective Values
6	Acuties with Subjective
7	Final Rx (If entered)
8	VA with Final Rx
9	Near Rx (If entered)
10	VA with NEAR Rx
11	Keratometer Readings

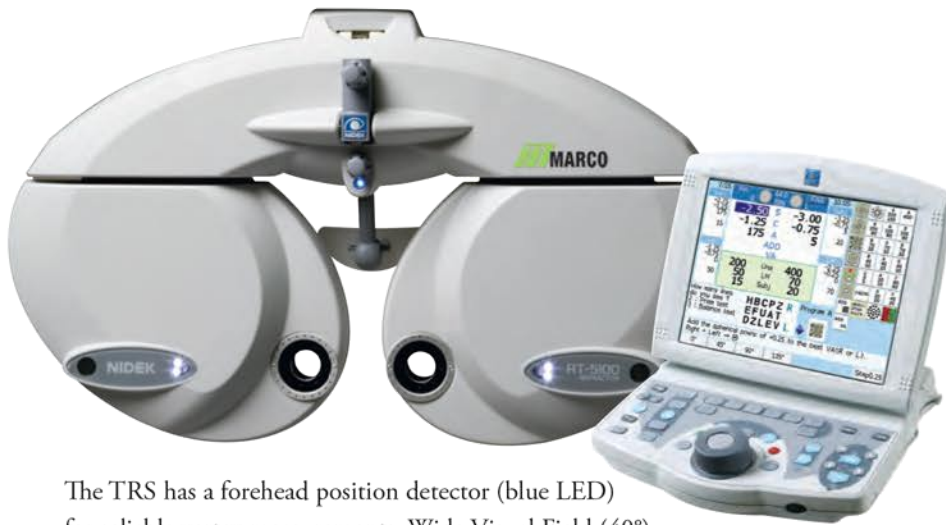
```

1 BO 2.50 PRSM BO 2.50
B 0.00 B 0.00
2 Div 5.00/ 6.00/ 4.00
3 Conv 8.00/13.00/10.00
NEAR
+ 2.50 SPH + 1.50
- 0.75 CYL - 1.00
158 AXS 9
UA
4 < 20> < 20> < 20>
5 BI 1.50 PRSM BI 1.50
B 0.00 B 0.00
6 -----< NPC >-----
10cm 8.0MA 48.0Prism
7 -----< NPA >-----
BIN: 20cm 3.75D
8 -----< NRA >-----
BIN: +2.25/ -
9 -----< PRA >-----
BIN: -2.50/ -
10 Fusion Check :
4(Fusion)
11 Stereo Check : 1'
12 Aniseikonia(V) : OK

NIDEK RT-5100
    
```

1	Phoria
2	Divergence
3	Convergence
4	Near Acuties
5	Near Phoria
6	Near Point Convergence
7	Near Point of Accommodation
8	Negative Relative Accommodation
9	Positive Relative Accommodation
10	Worth 4 Dot
11	Distance Stereopsis
12	Aniseikonia Result

TRS-5100: TOTAL REFRACTION SYSTEM



The TRS has a forehead position detector (blue LED) for reliable vertex measurements. Wide Visual Field (40°) apertures provide a natural view of the environment enabling more realistic and accurate refractions

Easy Maintenance & Upgrades

How will the TRS-5100 maximize your return on investment?

- Increase patient capacity
- Improve patient flow and reduce wait times
- Decrease testing time, more time available for marketing services
- Spend more quality time with patients
- More time for contact fittings, optical selections and case disposition discussions
- Cut testing times in half, with reliable delegated refractions
- Standardize procedures for reproducible results across all operators
- Reduce the risk of repetitive motion and stress injuries
- Decrease total labor in manual procedures and transcribing data
- Transfer data to EMR without transcription errors
- Increase referrals through enhanced patient experience



The TRS-5100 digital refractor can be employed in either the traditional lane, or on the EPIC™ workstation.

TRS-5100 SPECIFICATIONS



MEASUREMENT RANGE	
Sphere	-29.00 to +26.75D (0.12D / 0.25D / 1D / 2D / 3D steps)
Cylinder	0 to ±8.75 D (0.25D / 1D / 2D / 3D steps)
Axis	0 to 180° (1° / 5° / 15° steps)
PD	48 to 80mm (far vision) 50 to 74mm (near vision) (0.5 / 1mm steps) 54 to 80mm (Far PD at which both batteries can converge)
Rotary Prism	0 to 20D (0.1 / 0.5 / 2D increments) 0 – 20D (0.5D, 1D, 2D steps)
Auxiliary Lenses	Occluder, Polarizing Lenses, Pin Hole (1mm), 10 base-in prism, Red Maddox Horizontal (right eye), 6 base-up prism, Red Maddox Vertical (left eye), Cross mark for P.D., Red Lens (right eye), .50 fixed cross cylinder, Green Lens (left eye), Retinoscopic Lens, (+1.5D, +2.0D)
Refraction Distance for Near Vision	350 to 700mm (50mm increments)
Visual Field	40° (VD = 12mm) 39° (VD = 13.75mm)
Forehead Rest Adjustment	14±2mm
Vertex Distance	12-20mm (12, 13.75, 16, 18, 20mm)
GENERAL INFORMATION	
Horizontal Level Adjustment	±2.5°
Display	8.4-inch color LCD with touch screen
Printer	Built-in
IC Reader/Writer	Built-in
Power Supply	AC 100 / 120 / 230V 50 / 60Hz
Power Consumption	120 VAC
DIMENSIONS AND WEIGHT	
Refractor Head	
Main Body	15.94 x 4.0 x 10.86" / 12.8" with bracket / 7.7 lbs.
Control Box	8.66 x 8.1 x 7.87" / 4.2 lbs.
Relay Box	7.63 x 8.93 x 2.83" / 8.8 lbs.
Printer	4.0 x 3.38 x 4.76" / 0.66 lbs.
TRS Arm	Electromagnetic lock, fully moveable up/down and back/forth



Marco technologies integrate with Marco Connect software



Designed and Manufactured by NIDEK – Represented by MARCO

800.874.5274
www.marco.com

