

# Marco EPIC REFRACTION WORKSTATION



# EPIC-5100 REFRACTION WORKSTATION

**ACCURATE**

**FAST**

**Save Time for What's Most Important:** Today's health care environment demands effective use of your resources to increase operational efficiency, without compromising patient care, to maximize productivity. The EPIC refraction workstation from Marco helps you do just that.

The EPIC refraction workstation is today's most innovative way to streamline operations, grow your business and build your dream practice. The EPIC decreases work-up times to less than 10 minutes, allowing the operator to perform the refraction in 3-5 minutes. Now you can confidently delegate data gathering to your technicians and focus on data assessment, diagnosis and prescribing a final correction.

**Imagine Your Life Just Got Easier:** Diagnostic decisions are faster, yet more precise than ever. Patient throughput has increased by 50-75% and patient satisfaction has never been higher. And you have more time to spend as you like, for personal leisure or patient care. Meanwhile, your staff is more efficient and profits increase.

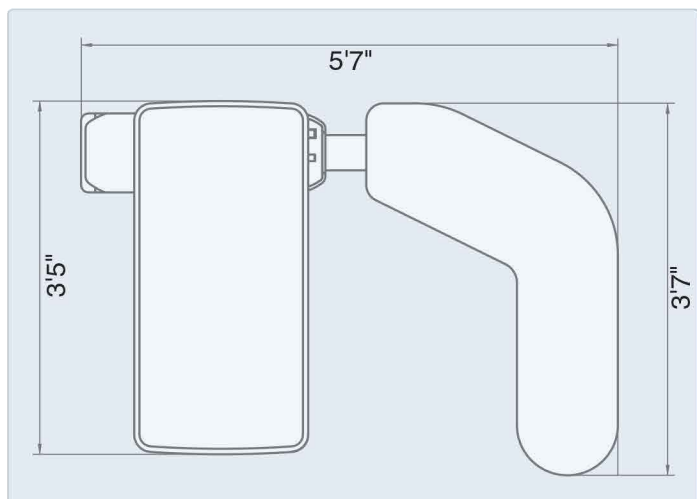
From office productivity, to patient care, to the exam room, to the bottom line...the EPIC raises not only the quality of your practice, but also the quality of your life.

**EPIC Refractions in Half the Space:** The highly advanced EPIC refraction workstation is both user and patient friendly. The workstation can be configured to combine technologies such as a digital refractor, an auto refractor/keratometer (with or without tonometry), or OPD-Scan III on a motorized table, a space-saving chart projector, and auto lensmeter. The EPIC uses half the space of a traditional lane, requiring an area of only five-by-six feet, allowing you to free up rooms for other procedures. The EPIC delivers the tools your technicians need to directly increase office productivity and patient flow.



## Ergonomic Design and Wide Visual Field

The digital refractor's compact design is more comfortable. Wide 40 degree field of view provides a natural visual environment for more realistic, accurate measurements.



## Adjustable Motorized Table

Serves typical or wheelchair patients.



# INTELLIGENT CUSTOM CONFIGURATIONS



## Forehead Position Detector

Clear and easy-to-recognize blue LED turns off when the patient is properly positioned.

## Glare and Contrast Sensitivity (both SSC-350 MCG and SSC-370 MCG)

Standardization of glare testing ensures consistent and repeatable assessment of glare visual acuities, and contrast sensitivity testing aids in cataract evaluation

## Available Chart Options

- SSC-370 MCG
- SSC-350 MCG

## Available Autorefractors

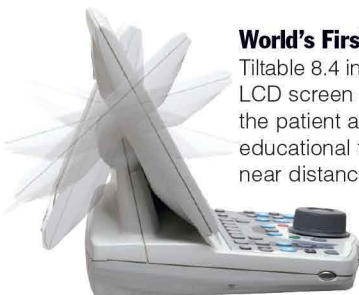
- ARK-1 Series
- Tonoref II (M3)
- OPD-Scan III

## Available Lensmeters

- LM-600
- LM-600P
- LM-600PD
- LM-1800P
- LM-1800PD

## World's First Reversible Display

Tilttable 8.4 inch color touch-panel LCD screen can be turned to the patient and used as an educational tool or preferred near distance check.





# USER FRIENDLY

## Unparalleled Technology and Benefits

- Integrates wavefront data into subjective refraction (OPD-Scan III option)
- Works with wireless data card communications
- Auto-maintains proper convergence at variable near-working distances
- Shares data between multiple instruments
- Offers adjustable table and counterbalanced arm
- Prints hard copies to an external printer

**EMR Integration** The EPIC smoothly integrates with EMR, allowing you to efficiently transfer data from the examination to your patient database. This improves office productivity and assures a high level of confidence in managing important patient information, with the added benefit of elimination of transcription errors caused by manual data entry.



**Unique operator "assist" function** This unique feature offers operation and question guidance for examinations, making it possible for the technician to provide smooth and accurate exams.

**IC Card Reader** The EPIC control console uses a data card slot that eliminates cabling between instruments, providing for quick and easy wireless data transfer from remote auto refractors and lensmeters.



## Faster Work-Up Times

With the EPIC, refraction has never been so fast, so simple or so effective.

Manual Workup ..... 15 mins.  
**EPIC Workup ..... 7 mins.**

Process	Time Savings
Retinoscopy	1.5 mins.
Keratometry	1.5 mins.
Set up refractor	0.5 mins.
Eliminate transcription	0.5 mins.
Autocross	0.5 mins.
Final verification	1.5 mins.
Clear out refraction	0.5 mins.
Prism verification	1.5 mins.
<b>TOTAL TIME SAVED:</b>	<b>8.0 mins.</b>

“With 7 doctors and 18 technicians, I was always struggling to find a way for everyone to provide consistent refraction results, and for those results to be accurate. After implementing the Marco EPIC with OPD-Scan III, my problems were solved. The EPIC refraction sequence and the addition of the OPD-Scan III to the EPIC takes accuracy to a whole new level.”

LARRY PATTERSON, MD  
 CROSSVILLE, TENNESSEE

“After purchasing a Marco Refraction Workstation, patient data is now collected and then automatically transferred into my EMR with a touch of single button on the Marco control panel. Over 50 fields are automatically populated without transcription errors.”

LORIE LIPPIATT, OD  
 SALEM, OHIO

“Marco’s EPIC workstation has empowered the staff by allowing them to do more with patients. Technicians conduct all the pre-testing and I complete the refracting process with the patient. Typically, finalizing the refraction now saves me several minutes per patient and allows extra time to talk about lens choices and visual needs.”

DORI CARLSON, OD  
 PARK RIVER & GRAFTON, NORTH DAKOTA

**Implementation, Service, and Training**

To assess whether the EPIC is the best match for your particular needs, we perform a thorough, complimentary analysis of your practice. This results in specific recommendations showing how the EPIC will improve your processes and productivity.

Marco provides comprehensive, hands-on training for your technicians and unmatched post-installation technical support. Such in-depth and personal training, combined with the technological innovation of the EPIC gives you advantages no other technologies can provide, which directly improves the bottom line.

Marco's online training center is available 24/7 to provide convenient, helpful guidance for technical questions.



ID :	
NAME:	M/F
JAN/6/2020	1:39 PM
	WD=40cm
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FAR	
30	60
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+ 0.25 SPH - 0.25	
- 0.75 CVL - 1.25	
159 AXS 19	
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PD	
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VA	
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VA	
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43.00 43.25	
7.68 R2 7.55	
44.00 44.75	
171 AXS 180	
Test time 3:17	
NIDEK RT-5100	

Unaided Acuties  
 Lensmeter Readings  
 Acuity with Glasses  
 Auto Refractor Readings  
 Subjective Values  
 Acuties  
 Keratometer Readings

Measurement values are printed out for easy evaluation.

B0	2.50	PRSM	B0	2.50
B	0.00		B	0.00
Div	5.00/ 6.00/ 4.00			
Conv	8.00/13.00/10.00			
NEAR				
+ 2.50	SPH	+ 1.50		
- 0.75	CVL	- 1.00		
158	AXS	9		
< 20>	VA	< 20>	< 20>	
---< NPC >---				
10cm	8.0MA	48.0prism		
---< NPA >---				
BIN:	20cm	3.75D		
---< NRA >---				
BIN:	+2.25/	-		
---< PRA >---				
BIN:	-2.50/	-		
Fusion Check :				
4(Fusion)				
Stereo Check : 1'				
Aniseikonia(V) : OK				
NIDEK RT-5100				

Phoria  
 Divergence  
 Convergence  
 Near Acuties  
 Near Phoria  
 Near Point of Convergence  
 Near Point of Accommodation  
 Negative Relative Accommodation  
 Positive Relative Accommodation

Additional information can be printed.

“As a solo Ophthalmologist, I had a patient flow problem. While I had the patient volume, I constantly found myself backed up, which was frustrating to me, but most importantly to my patients. The Marco EPIC Process corrected this for me. In fact, I corrected my patient flow...and increased it by 30%.”

P. VERNON JONES, MD  
 JACKSONVILLE, FLORIDA

“The Marco EPIC and the Marco Implementation Process enabled me to not only streamline my patient flow, increasing my throughput by 29% (profits 25%), but also solved the age-old problems of: bottleneck in the pretest area, different skill levels of staff, turnovers, and remakes.”

TIMOTHY PLANTY, OD  
 HOUSTON, TEXAS

# EPIC-5100 REFRACTION SYSTEM SPECIFICATIONS



MEASURING 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)
Field of View	40° (VD = 12mm) 39° (VD = 13.75mm)
Forehead Rest Adjustment	15mm
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
Power Supply	100 / 120 / 230 VAC 50 / 60Hz
Power Consumption	120 VA
DIMENSIONS & WEIGHT	
	<b>W x D x H</b>
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.
EPIC-5100 TABLE	
RT Arm	Electromagnetic lock, fully moveable up/down and back/forth
Dimensions & Weight	<b>W x D x H</b>
Motorized Main Table	Table top: 40.35 x 19.7 x 26.77 – 33.86" (stroke 7.1")
Side Table (Fixed)	Table top: 42.52 x 28.46 x 29.9"
Overall	42.52 x 60.7 x 61.2 – 72.83" / 352.7 lbs.
Power Supply	100 / 120 / 230 VAC ±10%, 50 / 60 Hz
Power Consumption	600 VA12.4" (W) x 20.4" (D) x 22.8" (H) • 64 lbs



All automated Marco technologies share data and integrate with leading EMR programs via Marco Connect software.

