Urine (0.001)

**FE GEE** 

Urine

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**Digital Refracto** 

# **PDX-CL** Urine Specific Gravity Digital Refractometer

"Accuracy of ±0.0003 for Urine Specific Gravity delivers the highest precision available from a portable refractometer."

#### **Features**

- Top-Level Features In A Palmtop Design
- Large, Easy-To-Read, Digital LCD Display
- Highly Accurate Specific Gravity Readings For Urine
- Refractive Index & Refraction Scales
- Custom High & Low Limit Measurement Alarms
- Low Power Consumption Provides 5000+ Readings Per Battery
- Water-Resistant Lexan® Overlay
- High-Polish, Stainless Steel Sample Well For Simple Cleanup







#### PDX-CL Urine Specific Gravity Digital Refractometer

The PDX-CL from VEE GEE delivers digital accuracy and high-end features for precise measurements of urine specific gravity. With 4-decimal resolution and accuracy of  $\pm 0.0003$ , the PDX-CL delivers performance never before available in a portable instrument.

The great advantage of the automatic PDX-CL digital refractometer is the natural consistency it affords. Measurement values are not dependent on how each operator reads an optical scale; a fuzzy shadowline can be interpreted in many different ways. Other digital refractometers on the market offer only 3-decimal resolution or scrolling LCD readouts which can greatly contribute to errors, reporting, and the accuracy levels of screening.

Compared to optical refractometers, the level of training, which is required to use the PDX-CL is exceptionally minimal. Optical instruments require some basic skills and experience before operators are comfortable using them. With the PDX-CL, after a sample is applied to the prism, one needs only to press a button and read the measurement from the digital display...that's it. This ensures that whether its being used for clinical urinalysis, drug screening or the dehydration level of athletes, the PDX-CL will provide consistent, accurate results.

To further ensure accurate screening the PDX-CL can be easily programmed with high and low limits to a range as small as 0.0001 for urine specific gravity. If a measurement falls outside of the target range, the red LED alarm and LCD will flash to quickly alert the operator.

With accuracy of  $\pm 0.0003$  USG, scales for R.I. and Refraction, automatic temperature compensation, a linear high-resolution CCD sensor, and low power consumption, the PDX-CL is an instrument, which will serve its clinical customers with unparalleled fidelity.

Go with a name you can trust for the highest level in clinical instruments...choose VEE GEE.

### **Technical Specifications**

Urine Spec. Grav.       1.0000-1.0500         Measuring Range       Refractive Index Refraction       1.3330-1.4098 nD         Wine Spec. Grav.       0.320         Wine Spec. Grav.       0.0001         Refractive Index       0.0001 nD         Refractive Index       0.0001 nD         Refractive Index       ±0.0003         Accuracy       Refractive Index         Refraction       ±1         Hi-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Optical Wavelength       589.3nm         Measuring Light Source       LED         Sensor       Linear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         Temperature Compensation       +5 to +35°C         Measuring Time       1.0 Seconds         Sample Quantity       >0.1mL         Zero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Lican®         Nover Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm			PDX-CL
Veasuring Range       Refractive Index Refraction       1.3330-1.4098 nD         Refraction       0-320         Urine Spec. Grav.       0.0001         Refraction       1         Refraction       1         Refraction       1         Wine Spec. Grav.       ±0.0001 nD         Refraction       1         Urine Spec. Grav.       ±0.0003         Accuracy       Refraction         Refraction       ±1         Hi-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Optical Wavelength       589.3nm         Veasuring Light Source       LED         Stage       High-Polish Stainless Steel         emperature Compensation       +5 to +35°C         Veasuring Temperature       +5 to +35°C         Veasuring Time       1.0 Seconds         Sample Quantity       >0.1°C         Veasuring Time       1.0 Seconds         Sample Quantity       >0.1mL         Zustom Calibration Liquid       Liquid Standard         Display       LCD         Gypad       Lexan®         Power Requirements       9V Battery (1)         Vuto-Off Mode	Cat. No.		44027
Refraction   0.0001     Resolution   Refractive Index     Refraction   1     Urine Spec. Grav.   0.0001 nD     Refraction   1     Urine Spec. Grav.   ±0.0003     Accuracy   Refractive Index     Refraction   ±1     Hill   0.0001 U.S.G. / 0.0001 nD / 1     Diptical Wavelength   589.3nm     Veasuring Light Source   LED     Sensor   Linear Hi-Res CCD     Yrism   Optical Glass     Stage   High-Polish Stainless Steel     Emperature Compensation   +5 to +35° C     Ambient Temperature   +5 to +35° C     Veasuring Time   1.0 Seconds     Sample Quantity   >0.1 °C     Veasuring Time   1.0 Seconds     Sample Quantity   >0.1 °C     Very   ±0.1 °C     Veasuring Time   1.0 Seconds     Sample Quantity   >0.1 °L     Very Calibration Liquid   Distilled Water     Display   LCD     (eypad   -     Ower Requirements   9V Battery (1)     Auto-Off Mode   >3.0 Minutes Non-Use     Sattery Life   5000+ Readings     Dimensions   170 (L) x95 (W) x45 (H) mm     Veight   425g <	Measuring Range	Urine Spec. Grav.	1.0000-1.0500
Urine Spec. Grav.       0.0001         Refractive Index Refraction       1         Urine Spec. Grav.       ±0.0003         Accuracy       Refractive Index Refraction       ±0.0001         Accuracy       Refractive Index Refraction       ±0.0001         Accuracy       Refraction       ±1         H-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Dptical Wavelength       589.3nm         Weasuring Light Source       LED         Sensor       Linear Hi-Res CCD         Yrism       Optical Glass         Stage       High-Polish Stainless Steel         femperature Compensation       +5 to +35°C         Minbient Temperature       +5 to +35°C         Measuring Time       1.0 Seconds         Sample Quantity       >0.1°C         Veasuring Time       1.0 Seconds         Sample Quantity       >0.1°C         Very Calibration Liquid       Listilled Water         Zustom Calibration Liquid       LicD         Seryad       Lexan®         Ower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       50000+ Readings		Refractive Index	1.3330-1.4098 nD
Resolution       Refractive Index Refraction       0.0001 nD         Urine Spec. Grav.       ±0.0003         Accuracy       Refractive Index Refraction       ±1         II-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Optical Wavelength       589.3nm         Veasuring Light Source       LED         Sensor       Linear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         Temperature Compensation       +5 to +35°C         Measuring Temperature       +5 to +35°C         Veasuring Time       1.0 Seconds         Sample Quantity       >0.1mL         Zero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Licand**         Ower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Velight       425g		Refraction	0-320
Refraction       1         Urine Spec. Grav.       ±0.0003         Accuracy       Refractive Index         Refractive Index       ±0.0001         Refraction       ±1         H-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Dptical Wavelength       589.3nm         Weasuring Light Source       LED         Sensor       Uinear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         Femperature Compensation       +5 to +35°C         Ambient Temperature       +5 to +35°C         Weasuring Temperature       +5 to +35°C         Weasuring Time       1.0 Seconds         Sample Quantity       >0.1 nL         Zero Calibration Liquid       Liguid Standard         Display       LCD         Gypad       LcD         Source       \$3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g	Resolution	Urine Spec. Grav.	0.0001
Urine Spec. Grav.       ±0.0003         Accuracy       Refractive Index Refraction       ±1         Hi-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Dytical Wavelength       589.3nm         Measuring Light Source       LED         Sensor       Linear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         emperature Compensation       +5 to +35°C         Ambient Temperature       +5 to +35°C         Weasuring Temperature       +5 to +35°C         Weasuring Time       1.0 Seconds         Sample Quantity       >0.1°C         Veasuring Time       1.0 Seconds         Sample Quantity       >0.1mL         Zustom Calibration Liquid       Liquid Standard         Display       LCD         Gypad       Lexan®         Power Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g		Refractive Index	0.0001 nD
Accuracy       Refractive Index Refraction       ±0.0001         Refraction       ±1         4ii-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Optical Wavelength       589.3nm         Weasuring Light Source       LED         Sensor       Linear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         emperature Compensation       +5 to +35° C         Ambient Temperature       +5 to +35° C         Measuring Temperature       +5 to +35° C         Weasuring Time       1.0.0 Seconds         Sample Quantity       >0.1mL         Zero Calibration Liquid       Distilled Water         Zustom Calibration Liquid       LicD         Seypad       LCD         Ower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Velight       425g		Refraction	1
Refraction       ±1         H-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Dptical Wavelength       589.3nm         Weasuring Light Source       LED         Sensor       Linear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         remperature Compensation       +5 to +35° C         Mubient Temperature       +5 to +35° C         Veasuring Temperature Sensor Accuracy       ±0.1° C         Veasuring Time       1.0 Seconds         Sample Quantity       >0.1 nL         Zero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Licpuid Standard         Display       LCD         Veypad       _Lexan®         Ower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Velight       425g	Accuracy	Urine Spec. Grav.	±0.0003
Refraction       ±1         H-Low Limit Resolution       0.0001 U.S.G. / 0.0001 nD / 1         Optical Wavelength       589.3nm         Measuring Light Source       LED         Sensor       Linear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         femperature Compensation       +5 to +35°C         Minbient Temperature       +5 to +35°C         Weasuring Temperature       +5 to +35°C         Weasuring Temperature Sensor Accuracy       ±0.1°C         Veasuring Time       1.0 Seconds         Sample Quantity       >0.1.mL         Zero Calibration Liquid       Distilled Water         Zustom Calibration Liquid       Liquid Standard         Display       LCD         Veypad		Refractive Index	±0.0001
Order of the second s		Refraction	±1
Optical Wavelength       589.3nm         Measuring Light Source       LED         Sensor       Linear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         femperature Compensation       +5 to +35°C         Ambient Temperature       +5 to +35°C         Measuring Temperature       +5 to +35°C         Measuring Time       1.0 Seconds         Sample Quantity       >0.1 nL         Zero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Liquid Standard         Display       LCD         Geypad       Lexan®         Power Requirements       9V Battery (1)         Vato-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g         Sunplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Hi-Low Limit Resolution		0.0001 U.S.G. / 0.0001 nD / 1
Sensor       Linear Hi-Res CCD         Prism       Optical Glass         Stage       High-Polish Stainless Steel         femperature Compensation       +5 to +35° C         mbient Temperature       +5 to +35° C         Weasuring Temperature       +5 to +35° C         Weasuring Temperature       +5 to +35° C         Weasuring Time       1.0 Seconds         Sample Quantity       >0.1 mL         Zero Calibration Liquid       Distilled Water         Zustom Calibration Liquid       LicD         Keypad       LCD         Ower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Velight       425g         Sunpleid With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Optical Wavelength		589.3nm
Prism   Optical Glass     Stage   High-Polish Stainless Steel     fernperature Compensation   +5 to +35° C     Ambient Temperature   +5 to +35° C     Measuring Temperature   +5 to +35° C     Gemperature Sensor Accuracy   ±0.1° C     Vleasuring Time   1.0 Seconds     Sample Quantity   >0.1mL     Cero Calibration Liquid   Distilled Water     Custom Calibration Liquid   Liquid Standard     Display   LCD     Veryad   Lexan®     Power Requirements   9V Battery (1)     Vuto-Off Mode   >3.0 Minutes Non-Use     Sattery Life   5000+ Readings     Dimensions   170 (L) x 95 (W) x 45 (H) mm     Veight   425g     Sunplied With   Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Measuring Light Source		LED
Stage       High-Polish Stainless Steel         femperature Compensation       +5 to +35°C         Ambient Temperature       +5 to +35°C         Weasuring Temperature Sensor Accuracy       ±0.1°C         Weasuring Time       1.0 Seconds         Sample Quantity       >0.1mL         Zero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Liquid Standard         Display       LCD         Keypad       9V Battery (1)         Vator Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Veight       425g         Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Sensor		Linear Hi-Res CCD
Temperature Compensation       +5 to +35° C         Ambient Temperature       +5 to +35° C         Musiont Temperature       +5 to +35° C         Veasuring Time       1.0 Seconds         Sample Quantity       >0.1 mL         Zero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Liquid Standard         Display       LCD         (eypad       Lexan®         Power Requirements       9V Battery (1)         Vato-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Veight       425g         Sunplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Prism		Optical Glass
Ambient Temperature       +5 to +35° C         Measuring Temperature       +5 to +35° C         Temperature Sensor Accuracy       ±0.1° C         Weasuring Time       1.0 Seconds         Sample Quantity       >0.1mL         Zero Calibration Liquid       Distilled Water         Zustom Calibration Liquid       Liquid Standard         Display       LCD         (eypad       >3.0 Minutes Non-Use         Sattery (1)       \$3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Velight       425g         Sunpole With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Stage		High-Polish Stainless Steel
Measuring Temperature       +5 to +35° C         femperature Sensor Accuracy       ±0.1° C         Measuring Time       1.0 Seconds         sample Quantity       >0.1mL         Zero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Liquid Standard         Display       LCD         Vexpad       Lexan®         Ower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Velight       425g         Sunplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Temperature Compensation		+5 to +35°C
Temperature Sensor Accuracy       ±0.1 °C         Vleasuring Time       1.0 Seconds         Sample Quantity       >0.1mL         Zero Calibration Liquid       Distilled Water         Zustom Calibration Liquid       Liquid Standard         Sisplay       LCD         Very Pad       Lexan®         Yower Requirements       9V Battery (1)         Juto-Off Mode       >3.0 Minutes Non-Use         Battery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Veight       425g         Suppole With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Ambient Temperature		+5 to +35°C
Measuring Time       1.0 Seconds         Sample Quantity       >0.1mL         Cero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Liquid Standard         Display       LCD         (eypad       Lexan®         Power Requirements       9V Battery (1)         Juto-Off Mode       >3.0 Minutes Non-Use         Battery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Veight       425g         Sunplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Measuring Temperature		+5 to +35°C
Sample Quantity       >0.1mL         Zero Calibration Liquid       Distilled Water         Custom Calibration Liquid       Liquid Standard         Display       LCD         (eypad       Lexan®         Power Requirements       9V Battery (1)         Juto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Veight       425g         Sunplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Temperature Sensor Accuracy		±0.1°C
Zero Calibration Liquid       Distilled Water         Zustom Calibration Liquid       Liquid Standard         Display       LCD         (eypad       Lexan®         Ower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Velight       425g         Supplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Measuring Time		1.0 Seconds
Custom Calibration Liquid       Liquid Standard         Display       LCD         (eypad       Lexan®         Yower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Battery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g         Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Sample Quantity		>0.1mL
LCD         Keypad       Lexan®         Yower Requirements       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g         Sunplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Zero Calibration Liquid		Distilled Water
Keypad       Lexan®         Power Requirements       9V Battery (1)         Juto-Off Mode       >3.0 Minutes Non-Use         Battery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g         Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Custom Calibration Liquid		Liquid Standard
Superior       9V Battery (1)         Auto-Off Mode       >3.0 Minutes Non-Use         Sattery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Veight       425g         Supplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Display		LCD
Auto-Off Mode       >3.0 Minutes Non-Use         Battery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g         Sunplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Keypad		Lexan®
Battery Life       5000+ Readings         Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g         Sunnlied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Power Requirements		9V Battery (1)
Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g         Sunnlied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Auto-Off Mode		>3.0 Minutes Non-Use
Dimensions       170 (L) x 95 (W) x 45 (H) mm         Weight       425g         Sunnlied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Battery Life		5000+ Readings
Veight       425g         Supplied With       Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Dimensions		
Supplied With Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.),	Weight		
	Supplied With		Storage Case (1 ea.), Carry Case (1 ea.), Prism Cover (2 ea.).
			Plastic Transfer Pipet (1 ea.), 9V Battery (1 ea.), Instruction Manual (1 ea.)

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"With a digital display... measurement values are not dependent on how each operator reads an optical scale ... a fuzzy shadowline can be interpreted many different ways."



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Printed in the USA