The New
Pachmate 2
from DGH Technology

Globally Recognized as the Leading Handheld Pachymeter

Now Featuring *Exclusive* Automatic Report Generation Using Wireless Bluetooth® Technology

DGH TECHNOLOGY, INC.
THE ULTRASOUND SPECIALIST

The DGH Pachmate revolutionized the measurement of corneal thickness with a handheld pachymeter that produces accurate, reliable, and easy to obtain results. The New Pachmate 2* also features an exclusive memory system that stores multiple patient records for automatic report generation using Bluetooth® wireless technology.
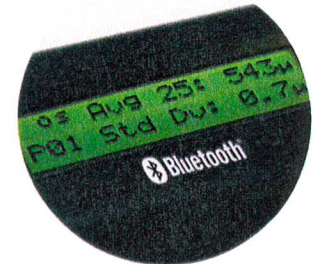
*With Bluetooth® Module installed

EASE OF USE

Turn on power and the Pachmate 2 is ready to take measurements. Contact the probe tip to any location on the cornea, and the Pachmate 2 will obtain and store up to 25 measurements in less than 2 seconds. Audible feedback indicates when a valid measurement is complete. After bilateral measurements have been completed, the measurements can be reviewed on the 16 character by 2 line LCD which provides easy visibility of the current measurement, the average, and the standard deviation of all measurements taken.

ACCURACY & REPRODUCIBILITY

Proven measurement algorithm yields accurate, reproducible measurements in a fraction of a second. The measurement capability of the Pachmate is an enhancement of the proven technology that has set the standard for measuring corneal thickness since 1982.

PERSONALIZED CONFIGURATION MEMORY

When you receive your Pachmate 2, the unit is ready to take corneal measurements at initial power up. It is not necessary to set up or configure any parameters. However, the Pachmate 2 has been designed to allow the user to personalize the operational mode, number of measurements taken, adjustment of time delays, etc. Once modified, these parameters are permanently stored in its memory.

DURABLE PORTABILITY

Handheld, battery operated, and lightweight, the Pachmate 2 will fit easily into any lab coat or pocket. The retractable probe provides protection of the probe tip when not in use. The Pachmate 2 has a minimum lifetime of 10 years and an industry leading 3 year warranty.
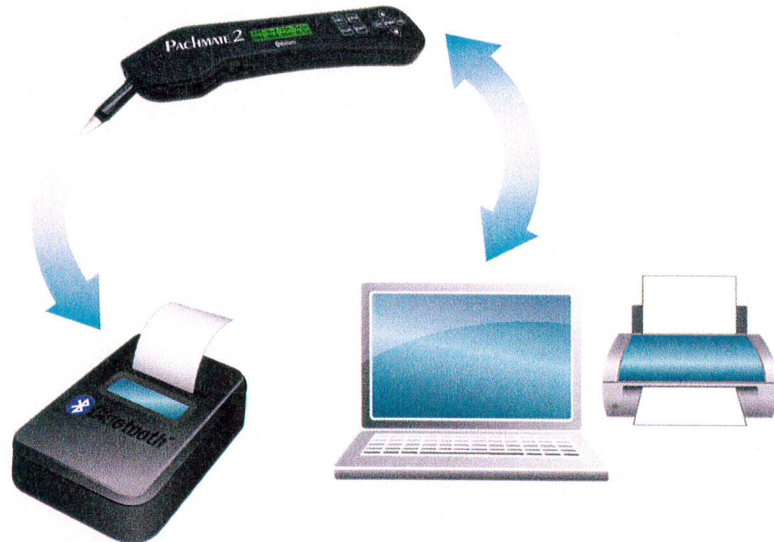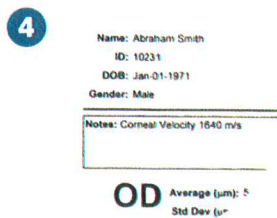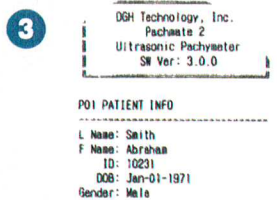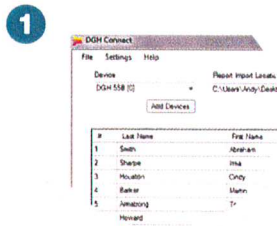
ADDITIONAL FEATURES

Detachable and Rotatable Probe: The Pachmate 2 probe rotates to allow the user to customize measurement position. When not in use, the probe can be rotated into the hand piece for protection while being transported or stored. The probe is also detachable and can easily be removed by the operator for cleaning or, if necessary, for replacement.
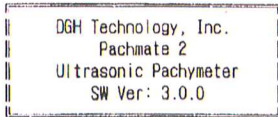
Mapping Mode for obtaining and storing up to 33 actual and biased corneal mapped measurements. These measurements can be obtained at any point on the cornea, including the periphery.

"Off the shelf" batteries: The Pachmate 2 is supplied with 2 sets of NiMh rechargeable batteries (4 total AAA batteries). Alkaline batteries can also be used. A battery charger is included with each unit.

Multiple Patient Records
Using Bluetooth® Wireless Technology
and DGH Connect Software

1 Using the DGH Connect Software (PC), enter patient ID information for up to 20 patients and wirelessly transmit to the Pachmate 2.

2 The Pachmate 2 stores all patient ID information in its memory for reference when measuring patients.

3 After the measurement sequence is complete, wirelessly transmit all results and patient information directly to a Bluetooth® enabled printer.

- OR -

4 After the measurement sequence is complete, wirelessly transmit all results and patient information back to the PC for report generation and printing.

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║    DGH Technology, Inc.      ║
║        Pachmate 2            ║
║   Ultrasonic Pachymeter     ║
║      SW Ver: 3.0.0          ║
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P01 PATIENT INFO

L Name: Smith
F Name: Abraham
    ID: 10231
   DOB: Jan-01-1971
Gender: Male

MEASUREMENT INFO

Date of Meas: Apr-14-2014
Time of Meas: 10:00:36 AM
   Meas Mode: Cont. Averaging
 Corneal Vel: 1640 m/s

OD MEASUREMENTS

NO.	MEAS(μm)	NO.	MEAS(μm)
1	510	14	510
2	509	15	510
3	509	16	511
4	509	17	510
5	508	18	510
6	509	19	510
7	509	20	510
8	508	21	509
9	509	22	510
10	509	23	509
11	509	24	510
12	509	25	510
13	510		

Average of 25 Meas = 509 μm
Standard Deviation = 0.7 μm

OS MEASUREMENTS

NO.	MEAS(μm)	NO.	MEAS(μm)
1	512	14	513
2	511	15	513
3	512	16	514
4	513	17	513
5	513	18	514
6	513	19	512
7	513	20	514
8	512	21	514
9	514	22	514
10	512	23	512
11	513	24	512
12	512	25	514
13	512		

Average of 25 Meas = 513 μm
Standard Deviation = 0.9 μm

NOTES

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_____
_____
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_____

Figure A: Bluetooth® enabled printer sample printout
(Not shown at actual size)

Name: Abraham Smith	Pachymetry Report
ID: 10231	DGH 55B SN125
DOB: Jan-01-1971	v3.0.0
Gender: Male	Apr-14-2014 10:00:36

Notes: Corneal Velocity 1640 m/s

OD Average (μm): 509 Std Dev (μm): 0.7

#	Meas (μm)
1	510
2	509
3	509
4	509
5	508
6	509
7	509
8	508
9	509
10	509
11	509
12	509
13	510
14	510
15	510
16	511
17	510
18	510
19	510
20	510
21	509
22	510
23	509
24	510
25	510

OS Average (μm): 513 Std Dev (μm): 0.9

#	Meas (μm)
1	512
2	511
3	512
4	513
5	513
6	513
7	513
8	512
9	514
10	512
11	513
12	512
13	512
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21	514
22	514
23	512
24	512
25	514

Figure B: PC Automatic Report Generation   *(Not shown at actual size)*

Specifications

Measurement Range: Standard: 200 microns to 1100 microns
Accuracy: ± 5 microns
Resolution: 1 micron
Internal Clock Accuracy: ±0.002%
Dimensions: 7.1" (181 mm) Length x 1.6" (41 mm) Width x 0.9" (23 mm) Depth
Weight: 3.6 Ounces (112 grams)
Power Requirement: Two (2) AAA batteries

DGH Connect Software: System Requirements

Processor: 32-bit or 64-bit, 2 GHz
Memory: 2 GB RAM
Hard Drive: 1 GB minimum, 100 GB recommended
Ports: USB 2.0
Display: 1024 x 768 resolution
Peripherals: Mouse (or Touchpad), Keyboard
Bluetooth® Radio: v2.1 or later*
* Software is compatible with USB Bluetooth® adapters/dongles for desktop systems.

DGH Connect Software: Compatible Operating Systems

Microsoft Windows XP, Service Pack 3 or higher (32-bit)
Microsoft Windows Vista, Service Pack 2 or higher (32-bit or 64-bit)
Microsoft Windows 7 (32-bit or 64-bit)
Microsoft Windows 8/8.1 (32-bit or 64-bit)

DGH TECHNOLOGY, INC.

THE ULTRASOUND SPECIALIST
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