



PM1 Pachymeter

AX1 Biometer



*The world's only non-contact handheld
Pachymeter & Biometer*

Features & Benefits

Non-contact

A great clinician and patient experience
The PM1's non-contact capabilities make it totally pain-free, requiring no anaesthetic drops and delivering a comfortable experience for both the clinician and the patient.

Accurate

Measure corneal thickness, accurately, reliably and repeatably
The PM1 delivers reliable, repeatable CCT measurements with a target accuracy of ± 10 microns.

Reduced Chair Time

Results in just a few seconds
As the PM1 is non-contacting, there is no need to wait for anaesthetic eye drops to take effect. This significantly reduces the overall time it takes to make a measurement.

Handheld

Desktop capability, handheld utility
The PM1's compact design makes it easy to carry and store. You can use it handheld or if you prefer, in a slit-lamp adapter (coming in 2023), making it perfect for both clinical and non-clinical settings.



Precision Optical System

The patented optical technology within the Occuity PM1 uses a tightly focused beam of light to scan the eye. When the focus passes through a surface a bright reflection is seen which allows the meter to know exactly where that surface is.

The PM1 collects the reflections from the front and back surfaces of the cornea, allowing a very precise measurement of corneal thickness.

With our expertise in optics and miniaturisation, Occuity's proprietary technology ensures that in addition to being accurate, the PM1 is also compact and very cost effective.

Easy to Operate

Intuitive design means no training is required
The PM1's touchscreen interface has been thoughtfully designed making it easy and intuitive to use. Clinical staff and technicians can become proficient with just a few minutes of practice.

Safe

Reduced risk of disease transmission and injury
With its generous working distance, the PM1 never needs to touch the eye - significantly reducing the potential risk of cross infection and accidental damage to the cornea. In particular, the PM1's non-contacting capability enhances COVID-19 safety.



Watch Video



SL1 - Slit Lamp Adapter

Hands Free
Whilst the PM1 Pachymeter is perfect for handheld use, it can also be used on a slit lamp thanks to the simple but effective SL1 slit-lamp adapter.

The SL1 slit-lamp adapter can be purchased separately

Comparison

Occuity PM1

Ultrasound Pachymeters

	Occuity PM1	Ultrasound Pachymeters
Technology	Optical	Ultrasound
Contact	Non-contact	Multiple contacts of the cornea
Total Measurement Time	Full measurement in seconds	Full process takes several minutes
Risk	Significantly reduced risk of disease transmission and injury	Risk of accidental corneal damage & infection transmission
Cleaning	Minimal cleaning required between patients	Clinical cleaning required between every patient
Consumables	None	Anaesthetic drops, cleansing wipes, replacement probes
Operators	Healthcare professionals	Specialist trained clinicians only
Training	Intuitive design with limited training required	Specialist device and anaesthetic training required
Display	TFT touchscreen display	Generally basic LCD screens

Technical Specification

Model	occuity pm1	PM1
Device Type		Pachymeter
Overall dimensions		17.5 cm x 15 cm x 4.5 cm
Weight		34.5 g
Display		3.46" Colour LCD
Laser source		Group 1 (BS EN 15004-2:2007)
Measurement units		μm
CCT measurement range		300 μm to 800 μm
CCT measurement accuracy		$\pm 10 \mu\text{m}$
CCT measurement precision		$\pm 5 \mu\text{m}$
Scanning frequency		300 scans per second
Measurement time		< 10 s
Measurement resolution		1 μm
Battery		Li-Ion - 7.4 V - 3050 mAh
Charger		Input: 100-240 V at 50/60 Hz (Universal)
Charging Time		Up to 4 hours
Auto power-off when idle		20 minutes



1942 Harrison St. - Hollywood - FL - 33020 - USA

WWW.MDALT.COM

@ info@mdalt.com

+1 386 569 5048

