



iRef Manual Refractometer

OPERATION GUIDE

V1.0

THANK YOU FOR CHOOSING A MOPTIM PRODUCT.

- For more information about the product, such as: how to install the battery, the operation, maintenance and precautions of the product, please refer to the "User Manual".
- To obtain a more accurate result, please relax and close your eyes for a few minutes before using this device.

感謝您選擇莫廷的產品。

- 如欲了解更多產品的相關信息，例如：如何安裝電池，該產品的操作、維護及注意事項等，請翻閱《用戶手冊》。
- 為了獲得更準確的結果，建議您在使用本設備之前充分放鬆眼睛，例如向遠處眺望或者閉眼休息幾分鐘。

GRACIAS POR ELEGIR UN PRODUCTO MOPTIM.

- Para obtener más información sobre el producto, como: cómo instalar la batería, el funcionamiento, el mantenimiento y las precauciones del producto, consulte el "Manual del Usuario".
- Para obtener un resultado más preciso, por favor relaje y cierre los ojos durante unos minutos previo a utilizar este dispositivo.

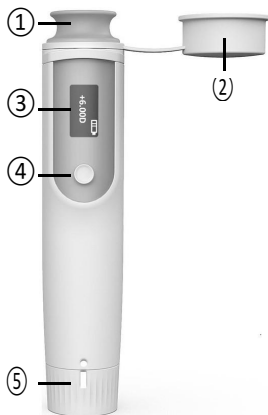
MERCI D'AVOIR CHOISI UN PRODUIT MOPTIM.

- Pour plus d'informations sur le produit, telles que : comment installer la batterie, le fonctionnement, l'entretien et les précautions du produit, veuillez vous référer au "Manuel de l'Utilisateur".
- Pour obtenir un résultat plus précis, veuillez vous détendre et fermer les yeux pendant quelques minutes avant d'utiliser cet appareil.

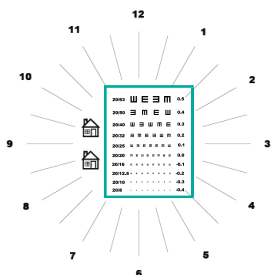
GRAZIE PER AVER SCELTO UN PRODOTTO MOPTIM.

- Per ulteriori informazioni sul prodotto, quali: come installare la batteria, il funzionamento, la manutenzione e le precauzioni del prodotto, fare riferimento al "Manuale d'uso".
- Per ottenere risultati migliori, rilassate la vostra vista chiudendo gli occhi per alcuni minuti, prima di utilizzare il dispositivo.

COMPONENTS | 結構說明 | COMPONENTES | COMPOSANTS | COMPONENTI



- ① Eyepiece | 目鏡 | Ocular | Oculaire | Oculare
- ② Occluder | 眼罩 | Ocluser | Occluder | Occlusore
- ③ Screen | 螢幕 | Pantalla | Écran | Schermo
- ④ Power button | 電源按鈕 | Botón de encendido | Bouton d'alimentation | Pulsante di accensione
- ⑤ Dial | 旋鈕 | Dial | Cadran | Manopola



20/63	W E 3 M	0.5
20/50	3 M E W	0.4
20/40	W 3 W M E	0.3
20/32	3 M E 3 W M	0.2
20/25	W 3 E M E M W	0.1
20/20	M E W E 3 M W 3	0.0
20/16	E M 3 W M 3 E W	-0.1
20/12.5	W E 3 M E M W 3	-0.2
20/10	E W E M 3 W 3 M	-0.3
20/8	W E 3 M 3 E W M	-0.4

- ⑥ Eye chart | 視力表 | Optotipo | Tableau visuel | Ottotipo

1. Estimate Refractive Error

1



Set the device to +6.00D by rotating the dial.

2



Look through eyepiece, cover the other eye by the occluder and keep both eyes open.

3



Clear



Blurry



2063	W E 3 M	0.5
2050	3 M E W	0.4
2040	W 3 M E	0.3
2032	M E W E	0.2
2026	W 3 E E	0.1
2020		0.0
2016		-0.1
2012.5		-0.2
2010		-0.3
208		-0.4



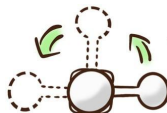
Rotate the dial slowly. Stop immediately when the upper icon becomes clear, while the lower icon is still blurry.

4



Read the result from the screen. Then go back to step 1 and repeat 3 times.

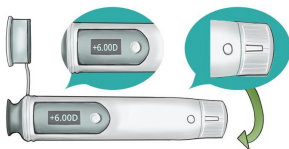
5



Turn the occluder to another side, repeat the process for the other eye.

2. Evaluate Astigmatism

1



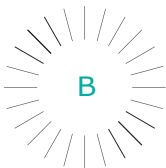
Set the device to +6.00D by rotating the dial.

2



Look through eyepiece, cover the other eye by the occluder and keep both eyes open.

3



Rotate the dial slowly until the end.
Observe the radial lines during this process.

4



Can you see some lines are thicker than others?

- If all lines are equally blurry or sharp like example A: no or little astigmatism, $<1.00D$;
- If you can see some thicker lines similar to example B: astigmatism, $\geq 1.00D$.

Repeat the process for the other eye.

3. Estimate Far Vision

1



Set the device to 0.00D by rotating the dial.

2



Look through eyepiece, cover the other eye by the occluder and keep both eyes open.

3



With spectacles



Without spectacles

Test can be done with and without spectacles, to evaluate the corrected and uncorrected far vision.

4



Which is the smallest line where you can identify the direction of the letter "E"?

The value beside the smallest line you can read correctly is the estimated value of your far vision.

20/63	W E 3 M	0.5
20/50	3 M E W	0.4
20/40	W 3 W M E	0.3
20/32	3 M E 3 W M	0.2
20/25	W 3 E M E M W	0.1
20/20	M E W E 3 W 3	0.0
20/16	E E E E E E E	-0.1
20/12.5	E E E E E E E	-0.2
20/10	E E E E E E E	-0.3
20/8	E E E E E E E	-0.4

Repeat the process for the other eye.



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