

TRIAL LENS SETS



**LUXVISION®**  
PRECISION INSTRUMENTS



# TRIAL LENS SET



158 pieces, Aluminium case,  
Metal rings



158 pieces, Leather case,  
Plastic rings

Concave (-) Sphere				Convex (+) Sphere				Concave (-) Cylinder		Convex (+) Cylinder		Prism		Accessory	
List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	Specification	pcs
0.25	2	7.00	2	0.25	2	7.00	2	0.25	2	0.25	2	0.50	2	Cross cylinder	1
0.50	2	8.00	2	0.50	2	8.00	2	0.50	2	0.50	2	1.00	2	Crossed line	1
0.75	2	9.00	2	0.75	2	9.00	2	0.75	2	0.75	2	2.00	1	Pin hole	1
1.00	2	10.00	2	1.00	2	10.00	2	1.00	2	1.00	2	3.00	1	Occluder	1
1.25	2	12.00	2	1.25	2	12.00	2	1.25	2	1.25	2	4.00	1	Slit	1
1.50	2			1.50	2			1.50	2	1.50	2	5.00	1	Color filter lens	1
1.75	2			1.75	2			1.75	2	1.75	2				
2.00	2			2.00	2			2.00	2	2.00	2				
2.25	2			2.25	2			2.50	2	2.50	2				
2.50	2			2.50	2			3.00	2	3.00	2				
2.75	2			2.75	2			4.00	2	4.00	2				
3.00	2			3.00	2										
3.25	2			3.25	2										
3.50	2			3.50	2										
3.75	2			3.75	2										
4.00	2			4.00	2										
4.50	2			4.50	2										
5.00	2			5.00	2										
5.50	2			5.50	2										
6.00	2			6.00	2										

## Trial Lens Set

### • Spheres

The curved surface forms a part of the spherical lens and the dioptric power on all axis positions is the same. After passing the lens, the light beam focuses in one point (or a virtual focus). Spherical lens includes concave lens (-) and convex lens (+), which are used to examine myopia, hiperopia and presbyopia.

### • Cylinders

The curved surface forms a part of cylindrical lens and the dioptric power on all axis positions is not the same. After passing

The lens, the light beam focuses into a straight line (or a broken line). Cylindrical lens consists of concave cylindrical lensand convex cylindrical lens that are used to examine astigmatism.

### • Prisms

The tangent plain of prismatic lens shows cuneiform. After passing the lens, the light beam bends to the bottom and the object shifts to edges. This kind of lens is used to test eyer-flesh, slant and invisible slant as well.

### • Occluder

This is a kind of opaque lens for covering the uninspected eye of the examinee in a dark room.



**266 pieces, Aluminium case,  
Metal rings**



**266 pieces, Leather case,  
Metal rings**

Concave (-) Sphere				Convex (+) Sphere				Concave (-) Cylinder		Convex (+) Cylinder		Prism		Accessory	
List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	Specification	pcs
0.25	2	5.25	2	0.25	2	5.25	2	0.25	2	0.25	2	0.50	2	Maddox	1
0.50	2	5.50	2	0.50	2	5.50	2	0.50	2	0.50	2	1.00	2	Crossed fine	1
0.75	2	5.75	2	0.75	2	5.75	2	0.75	2	0.75	2	2.00	2	Pin hole	2
1.00	2	6.00	2	1.00	2	6.00	2	1.00	2	1.00	2	3.00	2	Occluder	1
1.25	2	6.50	2	1.25	2	6.50	2	1.25	2	1.25	2	4.00	2	Slit	1
1.50	2	7.00	2	1.50	2	7.00	2	1.50	2	1.50	2	5.00	1	Red filter lens	1
1.75	2	7.50	2	1.75	2	7.50	2	1.75	2	1.75	2	6.00	1	Green filter lens	1
2.00	2	8.00	2	2.00	2	8.00	2	2.00	2	2.00	2	8.00	1	Cross cylinder	2
2.25	2	8.50	2	2.25	2	8.50	2	2.25	2	2.25	2	10.00	1	Plane lens	1
2.50	2	9.00	2	2.50	2	9.00	2	2.50	2	2.50	2			Frosted lens	1
2.75	2	9.50	2	2.75	2	9.50	2	2.75	2	2.75	2				
3.00	2	10.00	2	3.00	2	10.00	2	3.00	2	3.00	2				
3.25	2	11.00	2	3.25	2	11.00	2	3.25	2	3.25	2				
3.50	2	12.00	2	3.50	2	12.00	2	3.50	2	3.50	2				
3.75	2	13.00	2	3.75	2	13.00	2	3.75	2	3.75	2				
4.00	2	14.00	2	4.00	2	14.00	2	4.00	2	4.00	2				
4.25	2	15.00	2	4.25	2	15.00	2	4.50	2	4.50	2				
4.50	2	16.00	2	4.50	2	16.00	2	5.00	2	5.00	2				
4.75	2	18.00	2	4.75	2	18.00	2	5.50	2	5.50	2				
5.00	2	20.00	2	5.00	2	20.00	2	6.00	2	6.00	2				

#### • Slit

In its center, there is a split, through which light beam can pass While it can not pass the other part of the lens. By turning this lens infront of the eye, astigmatism can be examined as your vision chages in better on in worse at a certain axis position. On the contrary, it proves no existence of astigmatism if your vision has change.

#### • Color Lens

This kind of lens has different colours: red, green, blue, yellow and dark brown and it is used to examine color sensitivity. To such person whose dioptric image is muddy (e.g. a patient with

Cataract), the red or green lens is suitable. It also can be used for Re-inspection and examination of color blindness.

#### • Pin Hole

In its center, there is a small hole, through which light beam passes to form artificial pupil and it is used to improve diopter, specially the astigmatism.

#### • Cross Cylinder (only in models with 158 and 266 pieces)

This is a kind of lens with contrary dioptric in two axis positions and used to examine the degree and axis position of the cylindrical lens.

Axis position, respectively put the two axes of cross cylinder lens



**232 pieces, Leather case,  
Plastic rings**



Concave (-) Sphere				Convex (+) Sphere				Concave (-) Cylinder		Convex (+) Cylinder		Prism		Accessory	
List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	List	pcs	Specification	pcs
0.12	2	6.00	2	0.12	2	6.00	2	0.12	2	0.12	2	1.00	1	Maddox	1
0.25	2	6.50	2	0.25	2	6.50	2	0.25	2	0.25	2	2.00	1	Frosted lens	1
0.50	2	7.00	2	0.50	2	7.00	2	0.50	2	0.50	2	3.00	1	Pin hole	2
0.75	2	8.00	2	0.75	2	8.00	2	0.75	2	0.75	2	4.00	1	Occluder	2
1.00	2	9.00	2	1.00	2	9.00	2	1.00	2	1.00	2	5.00	1	Slit	1
1.25	2	10.00	2	1.25	2	10.00	2	1.25	2	1.25	2	6.00	1	Red filter lens	1
1.50	2	11.00	2	1.50	2	11.00	2	1.50	2	1.50	2	7.00	1	Green filter lens	1
1.75	2	12.00	2	1.75	2	12.00	2	1.75	2	1.75	2	8.00	1	Plane lens	1
2.00	2	13.00	2	2.00	2	13.00	2	2.00	2	2.00	2	9.00	1		
2.25	2	14.00	2	2.25	2	14.00	2	2.25	2	2.25	2	10.00	1		
2.50	2	15.00	2	2.50	2	15.00	2	2.50	2	2.50	2				
2.75	2	16.00	2	2.75	2	16.00	2	2.75	2	2.75	2				
3.00	2	18.00	2	3.00	2	18.00	2	3.00	2	3.00	2				
3.25	2	20.00	2	3.25	2	20.00	2	3.25	2	3.25	2				
3.50	2			3.50	2			3.50	2	3.50	2				
3.75	2			3.75	2			4.00	2	4.00	2				
4.00	2			4.00	2			4.50	2	4.50	2				
4.50	2			4.50	2			5.00	2	5.00	2				
5.00	2			5.00	2			6.00	2	6.00	2				
5.50	2			5.50	2										

at the right side (45°) and the left side (45°) of primary test axis of cylindrical lens, then turn it counter clockwise and see differences of vision at two positions. If vision on one position is better than that on another position, the axis of cylindrical lens can be slightly turned in the direction of position mark of the better one, then test again by the used above, until difference of vision at two positions can hardly be distinguished, thus proving that the cylindrical lens is the correct position.

• **Frosted Lens (only in models with 232 and 266 pieces)**

This is a kind of semi-transparent cover lens and mainly used for babies or used outside of the room as an occluder.

• **Plane lens (only in models with 232 and 266 pieces)**

This is a kind of transparent plain lens and the light beam never bends when it passes the lens. It is used to examine false blindness.

• **Maddox (only in models with 232 and 266 pieces)**

On its surface,, there is one row of bars which point light can pass, and then bends into a line to the direction, which is perpendicular to the glass bars.

## Universal Trial Frames TF 35

This is the trial frame that ophthalmologists and optometrists have been asking for, easy to use and lightweight. It weights just 47g and that makes it one of the lightest trial frames around the world.

It is easy to use and it needs less adjustments to obtain a proper and comfortable fit for the patient.

The light weight plastic and metal construction ensures many years of use.

### Features

- P.D. is adjustable from 54mm to 70mm.
- Axis of astigmatism.
- One touch adjustment on nose pad.
- Easy side-on temples.
- Temple with spring hinge.
- Available in angle and length.
- Accommodate up to four 38mm. trial lenses.
- Light 47g, simple, reasonable.



TF 35 Silver



TF 35 Blue



TF 35 Pink



Universal Trial Frame TF 40



PB 1700 - PB 2400

### Prism Box (Available in sets of 17 or 23 pieces)

Set of 23 pieces prisms in aluminum case. Our prisms set are calibrated which produces superior diopter accuracy



PR 1000

### Prism Rule Set

Made of quality acrylic this prism set comes with one horizontal and one vertical Prism Bar in stylish aluminum case.



RB 1000

### Retinoscopy Bar Aluminium

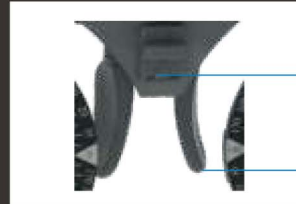
The bar is constructed of high quality aluminum.

### How to use 1. P.D. Adjustment



Knob

### 2. Nose pad adjustment



Nose pad button

Nose pad

### 3. Temple adjustment



Temple cover  
Temple-adjusting

### 4. Axis of astigmatism and strabismus



Knob

Scale panel



**LUXVISION®**

PRECISION INSTRUMENTS

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