# OCULUS Refraction Trial frames Lens cases (BK lines)







# **Universal Trial Frames**

The tool of the trade for every refraction professional



## OCULUS UB 6

### Highlights

- Six slots for each side: four in front, two behind
- 2.5° gradation for easy legibility
- PD adjustment R/L: 46 80 mm
- Parallax-free reading of the vertex distance (VD)
- Flexible double earpieces for perfect fit
- Anatomically designed nose piece for more comfort
- Height- and depth adjustable nose bridge
- Delivery content includes three additional nose pieces
- Improved thumb wheel for inclination adjustment
- Adjustable arm length
- Made of light metal/plastic
- Featuring a new design

#### 42600 Universal Trial Frame UB 6

- 42680 **Polarizing filter linear for UB 6 (45°/135°)**, pivotable and reversible (V-/A-position), large viewing area for distance and near vision, full rim, easy fitting with mounting clips
- 42681 **Polarizing filter circular for UB 6,** pivotable, large viewing area for distance and near vision, full rim, easy fitting with mounting clips







## OCULUS UB 4 höhenverstellbar\*

### Highlights

- Five slots for each side: three in front, two behind
- 5° gradation for easy legibility
- Exact centering by horizontal and vertical adjustment of the lens holder
- Height adjustment +/- 4 mm
- Reading accuracy with vernier scale: 0.25 mm
- PD adjustment range R/L: 48 80 mm
- Parallax-free reading of the set vertex distance (VD)
- Flexible bendable ear pieces
- Anatomically shaped nose piece
- Height- and depth adjustable nose bridge
- Delivery content includes two additional nose pieces and attractive wooden box
- Thumb wheel for inclination adjustment
- Adjustable arm length
- Made of light metal/plastic

#### 42503 Universal Trial Frame UB 4 height-adjustable\*

- 45886 **Polarizing filter linear for UB 4 (45°/135°),** pivotable and reversible (V-/A-position), large viewing area for distance and near vision, full rim, for lateral mount
- 45881 **Polarizing filter linear for UB 4 (90°/180°),** pivotable and reversible, click into place for height adjustment for distance or near examination, semi-rimless, for lateral mount
- 45883 **Polarizing filter circular for UB 4**, pivotable, large viewing area for distance and near vision, full rim, for lateral mount





## **Universal Trial Frames**

The tool of the trade for every refraction professional



## OCULUS UB 4

### Highlights

- Five slots for each side: three in front, two behind
- 5° gradation for easy legibility
- PD adjustment R/L: 46 80 mm
- Parallax-free reading of the set vertex distance (VD)
- Flexible bendable ear pieces
- Anatomically shaped nose piece
- Height- and depth adjustable nose bridge
- Delivery content includes two additional nose pieces
  - Thumb wheel for inclination adjustment
- Adjustable arm length
- Made of light metal/plastic

#### 42500 Universal Trial Frame UB 4

45886 Polarizing filter linear for UB 4 (45°/135°), pivotable and reversible (V-/A-position), large viewing area for distance and near vision, full rim, for lateral mount
45881 Polarizing filter linear for UB 4 (90°/180°), pivotable and reversible, click into place for height adjustment for distance or near examination, semi-rimless, for lateral mount
45883 Polarizing filter circular for UB 4, pivotable, large viewing area for distance and near vision, full rim, for lateral mount





## OCULUS UB 3+

### Highlights

- Five slots for each side: three in front, two behind
- 5° gradation for easy legibility
- PD adjustment R/L: 48 80 mm
- Parallax-free reading of the set vertex distance (VD)
- Anatomically shaped ear pieces
- Height- and depth-adjustable nose bridge
- Delivery content includes one additional nose piece
- Thumb wheel for inclination adjustment
- Adjustable arm length
- Made of light metal/plastic

#### 42100 Universal Trial Frame UB 3+

45851 Slip-on rotary polarizer linear (45°/135°) by Hegener for UB 3/UB 3+, reversible

## Half-eye Trial Frames

Approved half-eye frames for small heads and children



### Half-eye Trial Frames

### Highlights

- Three slots for each side
- 5° gradation for easy legibility
- PD adjustment R/L: 59 67 mm
- Anatomically shaped ear pieces
- Adjustable arm length
- Fixed nose bridge
- Made of light metal/plastic

42580 Half-eye Trial Frame, rigid nose bridge

42588 Half-eye Trial Frame, adjustable nose bridge



## Half-eye Trial Frames for children

#### Highlights

- Three slots for each side
- 5° gradation for easy legibility
- PD adjustment R/L: 54 58 mm
- Anatomically shaped ear pieces
- Adjustable arm length
- Fixed nose bridge
- Made of light metal/plastic

42480 Half-eye Trial Frame for children, rigid nose bridge

42488 Half-eye Trial Frame for children, adjustable nose bridge



### Note

All half-rim and full-rim trial frames are suitable for trial lenses conforming to **DIN EN ISO 9801** with a rim diameter of 38 mm, e.g. an OCULUS "tl" trial lens

## Trial Lens Coating

- Super-broadband antireflection coating with residual green reflection
- Hard coating: quartz-titanium coating for optimal resistance and longevity

# Trial Lens Cases (BK Lines)

Unsurpassed quality made by OCULUS





## OCULUS BK 1/T

- Large-set trial lens case in table version containing 228 trial lenses
- 35 pairs each +/- sph 0.12 to 20 D
- 17 pairs each +/- cyl 0.25 to 6 D
- 10 prism trial lenses
- 10 special lenses:
  - 1 coloured lens red, 1 coloured lens green,
  - 2 cross hair (centering cross), 1 occluder, 1 plano lens,
  - 1 pinhole disc (1.25 mm), 1 stenopaic slit (1.25 mm),
  - 1 Maddox cylinder red, 1 frosted lens

33180	Trial Lens Case BK 1/T, table version in grey-white with roll top
331801	Same as 33180, coated
33181	Same as 33180, without convex cylinders
331811	Same as 33181, coated
33184	Trial Lens Case BK 1/T, without trial lenses, with lens tray

### Trial Lens Sets BK 1

33182 Trial Ler	ns Set BK 1, without lens tray, without case
331821 Same as	s 33182, coated
33183 Same as	s 33182, without convex cylinder
331831 Same as	s 33183, coated
33185 Lens tra	y for BK 1

### OCULUS BK 1/W

- Large-set trial lens case in wall version containing 228 trial lenses
- 35 pairs each +/- sph 0.12 to 20 D
- 17 pairs each +/- cyl 0.25 to 6 D
- 10 prism trial lenses
- 10 special lenses:
  - 1 coloured lens red, 1 coloured lens green,
  - 2 cross hair (centering cross), 1 occluder, 1 plano lens,
  - 1 pinhole disc (1.25 mm), 1 stenopaic slit (1.25 mm),
  - 1 Maddox cylinder red, 1 frosted lens

33280	Trial Lens Case BK 1/W, wall version in grey-white with roll top
332801	Same as 33280, coated
33281	Same as 33280, without convex cylinders
332811	Same as 33281, coated

33284 Trial Lens Case BK 1/W, without trial lenses, with lens tray

🛞 The tl trial lenses of the BK line have a rim diameter of 38 mm (21 mm lens diameter).

They are suited for, e.g. OCULUS Universal Trial Frames UB 3, UB 3+, UB 4, UB 4 height-adjustable, UB 6 and the half-eye trial frames.





## OCULUS BK 1 SE

- Large-set trial lens case in optionally table or wall version containing 240 trial lenses
- All trial lenses coated
- 37 pairs each +/- sph 0.12 to 20 D
- 18 pairs each cyl 0.25 to 6 D
- 12 pairs prism trial lenses
- 11 pairs of near-vision addition trial lenses (+ sph 0.5 to 3.0 D)
- 10 special lenses:
  - 1 coloured lens red, 1 coloured lens green,
  - 2 cross hair (centering cross), 1 occluder, 1 plano lens,
  - 1 pinhole disc (1.25 mm), 1 stenopaic slit (1.25 mm),
  - 1 Maddox cylinder red, 1 frosted lens

## 331871 Trial Lens Case BK 1 SE/T, table version in dark grey with roll top, coated trial lenses

- 33187 Trial Lens Case BK 1 SE/T, without trial lenses, with lens tray
- 332861 Trial Lens Case BK 1 SE/W, wall version in dark grey with roll top, coated trial lenses
- 33188 Trial Lens Case BK 1 SE/W, without trial lenses, with lens tray

### Trial Lens Set BK 1 SE

- 331881 Trial Lens Set BK 1 SE, coated, without lens tray, without case
- 33186 Lens tray for BK 1 SE

## OCULUS BK X/O

- All-in trial lens case (according to Kochniss) in table version containing 422 trial lenses
- All trial lenses coated
- 45 pairs each +/- sph 0.25 to 20 D
- 60 pairs each cyl 0.25 to 6 D
- 44 pairs prism trial lenses
- 11 pairs of near-vision addition trial lenses (+ sph 0.5 to 3.0 D)
- 6 special lenses:
  - 1 occluder, 2 plano lenses,
  - 2 pinhole discs (1.25 / 2.0 mm), 1 frosted lens
- 1x +/- sph 0.25 D, 1x +/- sph 0.5 D, 2x + sph 0.37 D

**33101** Trial Lens Case BK X/O, table version in grey-white with roll top, without convex cylinders, coated trial lenses

33104 Trial Lens Case BK X/O without trial lenses, with lens tray

### Trial Lens Set BK X/O

33103 Trial Lens Set X/O, without convex cylinders, without lens tray, without case

# Trial Lens Cases (BK Lines)

Unsurpassed quality made by OCULUS





## **OCULUS BK 2**

- Practical wooden trial lens case containing 130 trial lenses
- 20 pairs each +/- sph 0.25 to 12 D
- 10 pairs each +/- cyl 0.25 to 3 D
- 5 prism trial lenses
- 5 special lenses:
  - 1 coloured lens red, 1 coloured lens green,
  - 1 occluder, 1 pinhole disc (1.25 mm),
  - 1 Maddox cylinder red

33480	Trial Lens Case BK 2, beechwood case with lens tray and handle
334801	Same as 33480, coated
33481	Same as 33480, without convex cylinder
334811	Same as 33481, coated
33484	Trial Lens Case BK 2, without trial lenses, with lens tray
Trial I	ens Sets BK 2

#### Irial Lens Sets BK 2

33482 Trial Lens Set BK 2, without lens tray, without case
334821 Same as 33482, coated
33483 Same as 33482, without convex cylinder
334831 Same as 33483, coated
33485 Lens tray for BK 2

## **OCULUS Prism Lens Case**

- Practical wooden trial lens case containing 72 prismatic trial lenses
- All trial lenses coated
- 36 pairs prism trial lenses
- 33106 Prism Lens Case, beechwood case with lens tray and handle, with coated trial lenses
- 33109 Prism Lens Case, without trial lenses, with lens tray

#### Prism Lens Set

33107	Prism Lens Set, coated, without lens tray, without case
33108	Lens tray for prism lens set

🚱 The tl trial lenses of the BK line have a rim diameter of 38 mm (21 mm lens diameter).

They are suited for, e.g. OCULUS Universal Trial Frames UB 3, UB 3+, UB 4, UB 4 height-adjustable, UB 6 and the half-eye trial frames.



## OCULUS Trial Lens Case BK F

- Practical add-on case containing 12 trial lenses for spherical and cylindrical fine adjustment
- All trial lenses coated
- 1 pair each +/- sph 0.12 D
- 4 pairs each cyl 0.12 D

33120 Trial Lens Case BK F, beechwood case with lens tray, with coated trial lenses



## Pair of Polarizing Filters Circular

34085 Pair of polarizing filters (tl) circular, ø 38 mm

# Refraction Accessories



36730 Vario cross cylinder (by Reiner), with effect changes +/- cyl 0.25 D and 0.50 D, coated
36710 Jackson cross cylinder, +/- cyl 0.12 D, coated
36720 Jackson cross cylinder, +/- cyl 0.25 D, coated
36740 Jackson cross cylinder, +/- cyl 0.50 D, coated
36780 Jackson cross cylinder, +/- cyl 1.00 D, coated





36600

- 36610 Spherical balance lenses with handle, +/- sph 0.12 D, coated
  36620 Spherical balance lenses with handle, +/- sph 0.25 D, coated
  36640 Spherical balance lenses with handle, +/- sph 0.50 D, coated
  36600 Refraction bar, +/- sph 0.25 und 0.50 D
  36605 Refraction bar, +/- sph 0.25 und 0.50 D, coated
- 49700 Retinoscopy mirror, ø 45 mm48110 Retinoscopy bars with slider (by Trousseau)

# Trial Lens Cases

Overview of trial lenses contained in each Trial Lens Case (not including special lenses)

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OCULUS Prismengläserkasten																										

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## **OCULUS** Trial Lenses

Clever detail solutions that make sense



Tab with aperture and reading mark for precise alignment



Clear colour coding of concave and convex trial lenses



Clear indication of the axis position of cylindrical lenses



Clear indication of the base position of prism trial lenses

## Occluder with PD Meter

### and addtional features

- For the cover test
- For visual acuity testing with Tumbling E optotype for testing at 40 cm distance and numerals for testing at 70 cm distance
- For measuring monocular and binocular pupillary
- For determining the near point of accommodation using Duane's test image
- For measuring pupil and corneal diameter
- As a fixation target (fixation star)
- Includes a ruler for measuring palpebral fissure width
- Material: resistant, nonabrasive polystyrene
- Dimensions (W x D x H): approx. 220 x 60 x 2 mm (8.66 x 2.36 x 0.08 in)

The inscriptions are in German and English.

35100 Occluder with PD Meter



# Trial Lens Sets & Trial Frames Technical Data

DIV 4	
BK 1	
Dimensions (W x D x H)	Table version: 578 x 476 x 153 mm (22.8 x 18.7 x 6.0 in)
	Wall version: 578 x 153 x 476 mm (22.8 x 6.0 x 18.7 in)
Weight	approx. 6.9 kg (15.2 lbs)
BK 1 SE	
Dimensions (W x D x H)	Table version: 578 x 476 x 153 mm (22.8 x 18.7 x 6.0 in)
	Wall version: 578 x 153 x 476 mm (22.8 x 6.0 x 18.7 in)
Weight	Table version: approx. 6.5 kg (14.3 lbs)
	Wall version: approx. 7 kg (15.4 lbs)
BK X/O	
Dimensions (W x D x H)	595 x 485 x 389 mm (23.4 x 19.1 x 15.3 in)
Weight	approx. 20.3 kg (44.8 lbs)
BK 2	
Dimensions (W x D x H)	378 x 255 x 55 mm (14.9 x 10.0 x 2.2 in)
Weight	approx. 1.9 kg (4.2 lbs)
BK F	
Dimensions (W x D x H)	137 x 79 x 59 mm (5.4 x 3.1 x 2.3 in)
Weight	approx. 349 g (12.3 oz)
Lens tray - Dimensions (W x D x H)*	
BK 1	545 x 401 x 36 mm (21.5 x 15.8 x 1.4 in)
BK 1 SE	545 x 401 x 36 mm (21.5 x 15.8 x 1.4 in)
ВК 2	357 x 234 x 23 mm (14.1 x 9.2 x 0.9 in)
Prism Lens Set	357 x 234 x 23 mm (14.1 x 9.2 x 0.9 in)

\* Note: A drawer for keeping the lens tray requires a minimum height of 60 mm (2.36 in).

Trial Frames	Weight	PD adjustment range	Arm length
UB 6	62 g (2.19 oz)	46 - 80 mm	92 - 130 mm (3.6 x 5.1 in)
→Polarizing filter linear (45°/135°)	12 g (0.42 oz)		
→Polarizing filter circular	11 g (0.39 oz)		
UB 4 höhenverstellbar	73 g (2.58 oz)	48 - 80 mm	88 - 124 mm (3.5 x 4.9 in)
UB 4	64 g (2.26 oz)	46 - 78 mm	88 - 124 mm (3.5 x 4.9 in)
→Polarizing filter linear (45°/135°) or (90°/180°)	14 g (0.49 oz)		
→Polarizing filter circular	14 g (0.49 oz)		
UB 3+	52 g (1.83 oz)	50 - 80 mm	96 - 132 mm (3.8 x 5.2 in)
→Slip-on rotary polarizer linear (45°/135°)	14 g (0.49 oz)		
by Hegener for UB 3/UB 3+			
Half-eye trial frame	25 g (0.88 oz)	59 - 67 mm	94 - 129 mm (3.7 x 5.1 in)
Half-eye trial frame with adjustable nose bridge	29 g (1.02 oz)	59 - 67 mm	94 - 129 mm (3.7 x 5.1 in)
Half-eye trial frames for children	25 g (0.88 oz)	54 - 58 mm	94 - 129 mm (3.7 x 5.1 in)
Half-eye trial frame for children	29 g (1.02 oz)	54 - 58 mm	94 - 129 mm (3.7 x 5.1 in)
with adjustable nose bridge			

**C** in accordance with Medical Device Directive 93/42/EEC



OCULUS is certified by TÜV according to DIN EN ISO 13485 MDSAP

OC/1895/WZ/EN