



OUTSUKA

OPTICAL MAGNIFIERS

O-LIGHT III L

2



RECTA-PUL



2D(1.4X)



3.5D(1.8X)

The recta-system doubler lens "RECTAPUL" is a dedicated auxiliary lens that amplifies the magnification of the Rectasystem lens 2D(1.4X) and 3.5D(1.8X), installed on top of each lens.

For 2D(1.4X) lens, the magnification will be changed to "4D(2X)", and for 3.5D(1.8X) to "5D(2.2X)".

LENS

Magnification: 2D(1.4X),3.5D(1.8X)
2D AR(1.4X,AR coating) 3.5D AR(1.8X,AR coating)

Lens material: Optical Glass

Working distance: 2D (1.4X)/160mm
3.5D(1.8X)/120mm

Lens dimensions: 144x108mm

Lens type: Interchangeable Lens
"Recta-System" Lens System

LIGHTING

LED Light source :
High Intensity 4600 K temperature color
Color Rendering index: Ra>90
Estimated life time is 40,000 hours.

Input Voltage: 100-125V, 50/60Hz.
Plug type : American type.

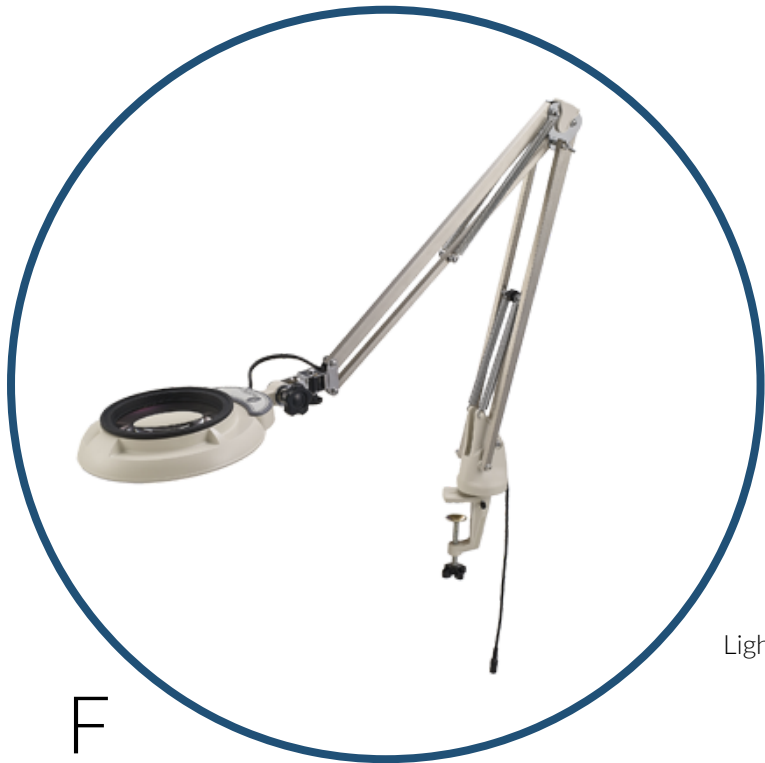
Power consumption: 9W
Dimming function: Available /
adjustment range 100-50%

BODY

Weight: O-LIGHT III-L 2D(1.4X) ~3kg
O-LIGHT III-L 3.5D(1.8X) ~3.2kg

Possible clamping width: 15 - 60mm

Operating temperature range: 5°C - 40°C



F
Long-reach arm
with clamp

LARGE RANGE OF MODELS WITH DIFFERENTS MAGNIFICATIONS

Magnification range of 2D(1.4X) - 15D(3.8X) with the Round Interchangeable Lenses

FANTASTIC VALUE

Competitively priced and a suitable alternative to the SKK Fluorescent Series.
SKK(Fluorescent lamp):23W.
SKKL(LED lamp):7W(Except model CL).
12W(model CL).

TECHNICAL SPECIFICATIONS

Input voltage: 100~125v 50/60Hz.

Plug shape: American type.

Power consumption: 7W (Except model CL).
12w (model CL).

Interchangeable lens:Round Series 2D(1.4X) - 15D(3.8X).

Lighting intensity at the working area equal or higher than that of the Fluorescent Lamp.

Led illumination system with plastic protection.

Dimming : SKKL Not Available.

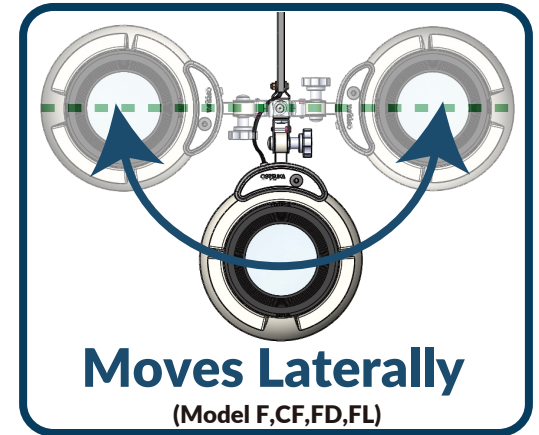
Equipped with a swing mechanism (model F,CF,FD,FL).

LONG LIFE-TIME

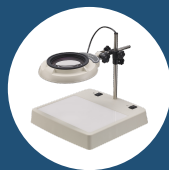
Led Light source estimated life time 40.000 hours*.

MAGNIFICATION

2D (1.4X), 3D(1.7X), 4D(2.0X), 6D(2.4 X)
8D(2.8 X),10D(3.1X),12D(3.4 X),15D(3.8 X)



CF
Short-reach arm
with clamp



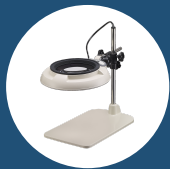
CL
Light box width
transmission
illumination



FD
Long-reach arm
with Flange base



MS
Magnetic stand



B
With bench
stand



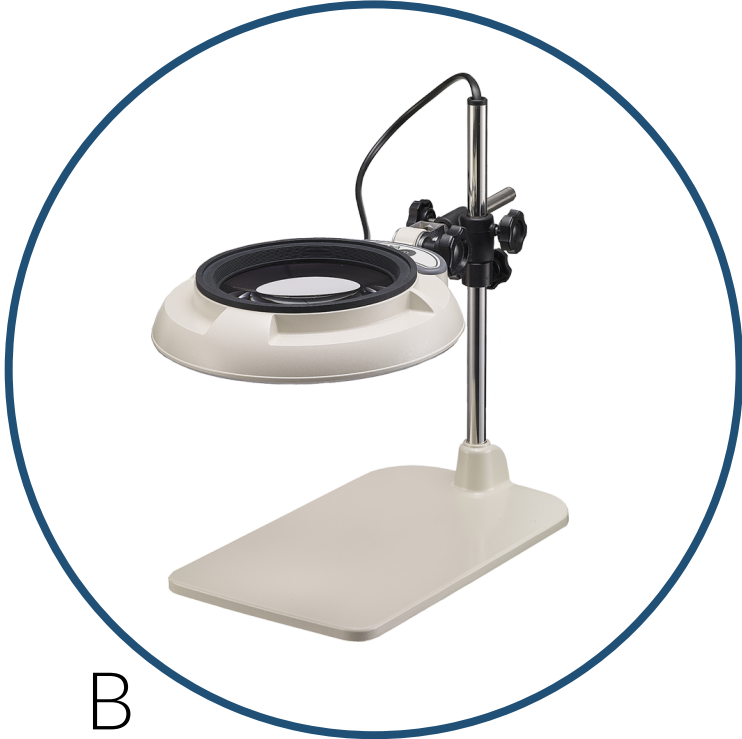
D
Fixed-type
Flange base



FL
Floor stand
with casters



ST
Pillar style arm
with clamp



B
With bench stand

LARGE RANGE OF MODELS WITH DIFFERENTS MAGNIFICATIONS

Magnification range of 2D(1.4X) - 15D(3.8X) with the Round Interchangeable Lenses

FANTASTIC VALUE

Competitively priced and a suitable alternative to the ENV Fluorescent Series.

ENV(Fluorescent lamp):25W.

ENVL(LED lamp):10W(Except model CL).
19W(model CL).

TECHNICAL SPECIFICATIONS

Input voltage: 100~125V50/60Hz.

Plug shape: American type

Power consumption: 10W (Input 200~240v AC except for CL).
19W (input 100~240v AC, model CL).

Interchangeable lens:Round Series 2D(1.4X) - 15D(3.8X).

Lighting intensity at the working area equal or higher than that of the Fluorescent Lamp.

Led illumination system with plastic protection.

Dimming : ENVL Available

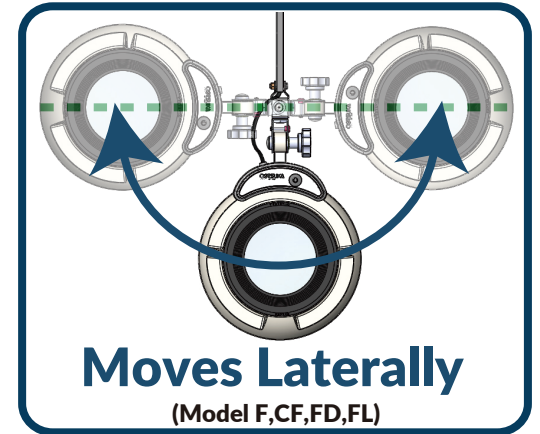
Equipped with a swing mechanism (model F,CF,FD,FL).

LONG LIFE-TIME

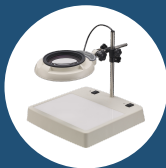
Led Light source estimated life time 40.000 hours*.

MAGNIFICATION

2D (1.4X), 3D(1.7X), 4D(2.0X), 6D(2.4 X)
8D(2.8 X),10D(3.1X),12D(3.4 X),15D(3.8 X)



CF
Short-reach arm with clamp



CL
Light box width transmission illumination



FD
Long-reach arm with Flange base



MS
Magnetic stand



F
Long-reach arm with clamp



D
Fixed-type Flange base



FL
Floor stand with casters



ST
Pillar style arm with clamp

BORELOUPE

5



LENS

Magnification: 4D(2X)
9D(3X)

Lens material: Optical Glass

Working distance: 4D(2X)/147mm
9D(3X)/55mm

Lens type: Fixed

LIGHTING

AC adapter input voltage:
100~240V:50/60 Hz:Plug Type A

Power consumption: 1.2W

Dimming function: Not available

BODY

Weight: 2.0 Kg

Possible clamping width: 15 ~ 60mm

Operating temperature range: 0°C ~ 35°C

Magnification lineup of Round Series interchangeable lens system

Area magnification (approximate)	2Diopter (1.4x) (Ø130)	3Diopter (1.7x) (Ø130)	4Diopter (2.0x) (Ø130)	6Diopter (2.4x) (Ø105)
Images of models				
Lens diameter (lens composition)	Ø 130 (single piece lens)	Ø 130 (single piece lens)	Ø 130 (doublet lens)	Ø 105 (doublet lens)
Images of models				
Area magnification (approximate)	8Diopter (2.8x) (Ø90)	10Diopter (3.1x) (Ø90)	12Diopter (3.4x) (Ø90)	15Diopter (3.7x) (Ø90)
Images of models				
Lens diameter (lens composition)	Ø 90 (quadruplet lens)	Ø 90 (quadruplet lens)	Ø 90 (3 groups, quintuple lens) with polarizing filter as standard	Ø 90 (3 groups, sextuple lens) with polarizing filter as standard
Images of models				

Lens	Eye point (mm)	Lens diameter (mm)	Working distance (mm)	View (mm)	Weight (g)	Optional multi-coated lens
2Diopter (1.4X)	150	Ø130	160	Ø170	400	○
3Diopter (1.7X)	150	Ø130	130	Ø140	500	○
4Diopter (2.0X)	150	Ø130	110	Ø120	700	○
6Diopter (2.4 X)	100	Ø105	82	Ø70	570	○
8Diopter (2.8 X)	105	Ø90	54	Ø40	1300	×
10Diopter (3.1X)	80	Ø90	43	Ø40	1350	×
12Diopter (3.4 X)	80	Ø90	35	Ø40	1350	×
15Diopter (3.8 X)	65	Ø90	30	Ø30	1560	×



JAPAN

OTSUKA OPTICS CO, Ltd.
1-4, Koyama 1-choume, Shinagawaku Tokyo 142-0062, Japan
Tel: +81-3-3491-4126 Fax: +81-3-3491-4120
<https://www.otsuka-op.com/>
info@otsuka-op.com

USA

HIROX-USA, inc.
100 Commerce Way, Hackensack, NJ 07601
Tel : (201)342-2600 Fax : (201)342-7322
<https://www.hirox-usa.com/>
info@hirox-usa.com