



# YZ180

Operation Microscope



OPHTHALMOLOGY / ENT



## Description

The **YZ180** Operation Microscope uses LED light source for coaxial illumination, with 0-180° inclinable binocular and 3-step magnification changer. It has different working distance and magnification. It is featured for flexible handling and easy operation. It is used for micro-operation in dental especially, and can be used for micros-operation in ophthalmology, ear-nose-throat, gynecology and surgery.

## Specifications

Magnification of binocular: 8X

Binocular: 0-180° inclinable

Magnification of eyepiece: 12.5X

Interpupillary distance: 50mm-80mm

Diopter: ±7D

Focal length of objective: F=200mm and F=250mm two objectives

Magnification changer: 3-step: 0.6X, 1X, 1.6X

Total magnification: 4.8X, 8X, 12.8X, 6X, 10X, 16X

Linear field: 50mm, 30mm, 19mm, 40mm, 24mm, 15mm

Fine focusing distance: 10mm

Illumination: Coaxial illumination with 10W LED lamp light source, brightness adjustable, illumination>40000lx

Filter: Build-in green and yellow filters

Balancing arm: 2-part arm with universal joints, counterweight adjustable and can be locked  
Floor stand: 2-part column fitted on the five-star base with casters

Power supply input: AC100V-240V, 50HZ-60HZ

Power supply adapter: DC12V3A, 36W

Optional accessories:

Beamsplitter

Video camera adapter

Demonstrator

Camera

Monitor

Eyepiece 10X, Objective F=300mm & F=400mm, F=200mm-300mm zoom objective,

Table mount clamp,

Wall mount bracket,

Monitor mount

Table of Optical Characteristics

Magnification of eyepiece	12.5X/20mm											
Focal length of objective	F=200mm			F=250mm			F=300mm(optional)			F=400mm(optional)		
Magnification on handwheel	1.6X	1X	0.6X	1.6X	1X	0.6X	1.6X	1X	0.6X	1.6X	1X	0.6X
Total magnification	16X	10X	6X	12.8X	8X	4.8X	10.7X	6.7X	4X	8X	5X	3X
Linear field (mm)	15	24	40	19	30	50	23	37	60	30	48	80

Table of Optical Characteristics

Magnification of eyepiece	10X/23mm (optional)											
Focal length of objective	F=200mm			F=250mm			F=300mm(optional)			F=400mm(optional)		
Magnification on handwheel	1.6X	1X	0.6X	1.6X	1X	0.6X	1.6X	1X	0.6X	1.6X	1X	0.6X
Total magnification	2.8X	8X	4.8X	10.2X	6.4X	3.8X	8.5X	5.3X	3.2X	6.4X	4X	2.4X
Linear field (mm)	16	26.5	43	20	33	53	24.5	39.5	64.5	32	52.5	85.5
Diameter of spot (mm)	57			71			86			113		
Exit pupil distance (mm)	25											



**ESSE3** srl, Via Garibaldi 30  
 14022 Castelnovo D.B. (AT)  
 Tel +39 011 99 27 706  
 Fax +39 011 99 27 506  
 e-mail: [danielec@esse3-medical.com](mailto:danielec@esse3-medical.com)  
 web: [www.esse3-medical.com](http://www.esse3-medical.com)

