



2018

## OMS2350 Dental Microscope

**New**

### INTRODUCING:

- ▶ Single touch to take still images or videos
- ▶ Easy360 Plus Mobile Phone Adapter

We Create Value  
For Our Customers  
With Our Service





Brightness intensity control knob

0° -180° inclinable binocular tube with PD adjusting knob

Inclinable binoculars feature the widest range of any binocular for user comfort.

120° Balancing Arm

Wide Field Eyepieces

Integrated Full HD Video Camera System

6-step magnification changer

Photo & Video Button

VarioDist Objective Lens  
Variable working distance 190-300mm  
Best suited for Dentistry

110mm variable distance

# Micro3D Integrated



## **The Micro3D is the World's First Dental Microscope with integrated 3D Full HD Camera.**

- Teaching or presenting in 3D helps teachers teach, students learn through real time depth perception.

The sharing of Micro3D visual information enhances the learning experience and takes dental education to an unprecedented next level.

- Seeing is Believing and believing is seeing.  
Patients understands procedures clearly and better with 3D videos.
- Dual port beam splitter for digital camera or camcorder and/or other accessories.
- Exporting real 3D streaming while the dentists are operating on microscope live and real time. Recorded 3D videos can be viewed on 3D TV, through 3D projectors and also in economical VR viewers.

# Micro2D Full HD Video System



## Micro2D Full HD system

- Resolution: Full HD 1080/60P output.
- Video record in USB device.
- Image freeze/record in USB device.
- Control by wireless footpedal.
- Via Wifi cast to Mobile phone, iPad.
- Adapters for DSLR camera or camcorder plus mobile phones.



# Easy360/Easy360 **Plus** Mobile Phone Adapter

**Patent Pending**

## Easy360/Easy360 **Plus** Mobile Phone Adapter

- Share Instantly your image under the microscope in Facebook , Instagram , Facetime , Whatsapp or other chat apps live.  
Live broadcast with other colleagues/people on the internet.
- Rotate the image under the microscope complete 360 degrees.
- Record videos and images under the microscope.  
Remote control by wireless pedal (Option), free your hands.
- Output HDMI to Monitor or TV (option).
- Covers to iPhone, Sumsung, Huawei, and a universal Holder for any mobile phones.
- It's easy to communicate with your patients to show them the procedure conducted live to them. It's great to share with your colleagues and peer groups so that you can exchange your experience live...teach and learn in real time live! !
- It's perfect for your assistant to assist in taking pictures or videos and assist the Surgeon during procedures.
- Acts as an assistant microscope and economical too.



Easy360



Easy360 Plus



Easy360 Plus

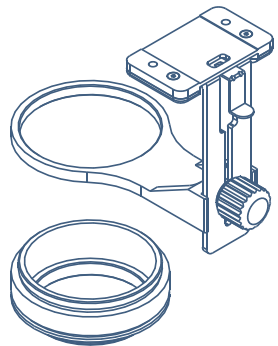


# Flash Adapter for DLSR Camera

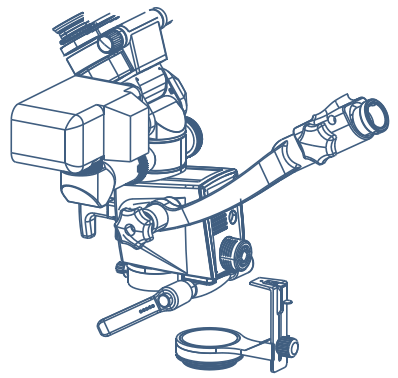
## First Choice for DSD Users Features

- Enhance your photographs and documentation under microscope.
- Coupler easy to adjust.
- Easy removed or installed.
- Twin flash or ring flash unit can be removed and installed easily.

(1)



(2)



(3)



Canon MT-24EX

Nissin MF-18

Nikon R1C1

# HIGH EXCELLENT OPTICAL QUALITY

## High Quality optics, multi coatings

Optics made of imported glass from Germany to reduce the optical aberration. All lenses are multi-coated and anti-reflective and apochromatic.



## VarioDist Lens

Working distance range: 190mm~300mm, best suited for dentistry.



## Wide field eyepieces

The wide field eyepieces are easily pushed into the binocular tube and have integrated eyecups with stepless adjustment. The eyepieces are perfectly suited for surgeons who wish to work with their eyeglasses as eye refraction can easily adjusted with a high range of +/- 7D diopter.



## 6-step Magnification Changer

The magnification changer knobs on both sides of the microscope head allow the user to quickly and conveniently select the optimum magnification, from an overview of an entire arch to high magnification for precise and close examination of each case. 6-steps are best suited for Dentistry as it covers all dental procedures.



example with F=250mm lens and 12.5x eyepiece:

Magnification changer	0.3x	0.5x	0.8x	1.2x	2.0x	3.0x
Magnification	2.8x	4.2x	6.9x	10.4x	17.0x	25.6x
Diameter of Field-of-view (mm)	78	52	32	21	13	9

# LED ILLUMINATION



*More stronger  
more natural  
more healthy*

LEDs present many advantages over Halogen or Xenon light sources including lower energy consumption, longer lifetime, improved robustness and greater durability and reliability. In addition LEDs operate at a safe, low voltage, instead of the 25K volts commonly found in xenon lighting, but also have a light temperature characteristic of natural daylight. Daylight enhances the visualization and allows much better photography and documentation and makes it absolutely natural.



Halogen light



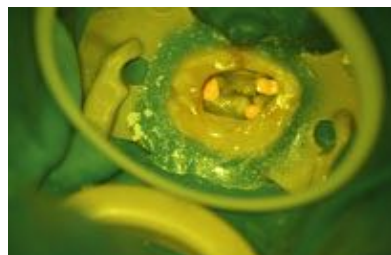
LED light

## Integrated Yellow and Green Filter

Yellow filter: Prevents premature curing of composite.  
Green filter: Improves detail visibility by enhancing the (Red free) contrast of tissue with a strong blood supply.



Without filter



Yellow filter



Green filter (Red free)



# SIMPLE COMFORTABLE OPERABILITY

## 0° -180° inclinable binocular tube

Inclinable binoculars feature the widest range of any binoculars for user comfort and enhanced ergonomics for surgeons of all Heights.



## Eye PD Adjusting Device

Pupillary distance accurate numbers have been marked on the knob, the dentist can conveniently and quickly adjust to their eye PDs.



## Balancing Arm



This Balancing Arm assures a ultra-smooth, fluid and perfect balance during repositioning of the microscope, even when external accessories have been attached, it balances the weight allowing smooth handling.



## Pendulum Function

This function allows the users to remain in an upright viewing position, by changing the direction of the optic pod without changing the direction of the binocular head thereby enhancing user comfort and ergonomics.



Vertical position



25° right inclination



25° left inclination

# BUILT-IN FULL HD IMAGING DEVICE

## Photo & Video Button

The Zumax provides an integrated FULL HD 1080/60P camera and recording system as option that has the ability to take a still image or a video and save all data onto an internal SD memory card.



## Integrated Full HD camera

Zumax introduces you outstanding HD resolution and superior color performance and fidelity and economical too. With outstanding performance, the camera delivers a whopping 1080/60P resolution from HDMI output with increased resolution up to 900 TV lines.



## Integrated Standard Video camera

Output: PAL Number of effective  
pixsls: 752 (H) · 582 (V) approx. 440K pixels  
NTSC Number of effective  
pixsls: 768 (H) · 494 (V) approx. 380K pixels



## External Photo and Video Solutions



Adapter for CANON/SONY/  
NIKON SLR camera



Adapter for SONY Alpha series  
/Canon/Nikon Mirrorless  
cameras



Adapter for CANON/SONY  
digital camcorder



Adapter for BlackMagic Cameras

# MORE OPTIONAL ACCESSORIES



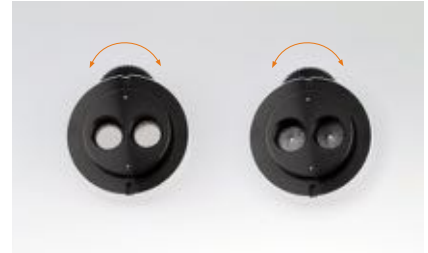
**WirelessST Shutter foot control for SLR Camera**

This wireless WIFI enabled shutter remote control by footpedal for SLR cameras allows shutter release without touching the camera. Therefore, problems of sterility, control and jerky movements and vibration during photography are eliminated.



**Laser Filter**

This filter can be used for the following laser wavelengths:  
 Diode Laser: 780-830nm;  
 Nd-YAG: 1064nm;  
 Er-YAG: 2940nm



**Dual Iris Diaphragm**

Dual iris diaphragm is used to increase the depth of field.



**Beam Splitter**  
(20% : 80% or 50% : 50%)



**Extender & Beam Splitter**  
(20% : 80% or 50% : 50%)



**Binocular Rotation Ring**



**Camera Adapter**



**Camcorder Adapter**



**Flash adapter**



**VarioDist Lens**



**Binocular Extender**

# DOCUMENTATION



## ZUM Station

Apple iMac	2.7GHz quad-core Intel Core i5 processor 1TB hard drive 8GB DDR3 memory NVIDIA GeForce GT 640M graphics processor
Display Spec	21.5-inch LED-backlit display with IPS technology; 1920-by-1080 resolution with support for millions of colors
Operating system	Mac OS X Lion
Software Version	V1.0
Software function	Display/Record/Edit Full HD 1080P Format of the video
Video compatibility	1080p (60Hz/50Hz/30Hz/25Hz) 1080i (60Hz/50Hz/30Hz/25Hz) 720p
Output	DVI, HDMI, HD SDI

# RECOMMEND KITS

## A. Entry-level Kit

- OMS2350 Basic configuration  
(Please find details from Technical Data)



## B. Mid-level Kit

OMS2350 Basic configuration with following upgrading or accessories

- 0° -180° inclinable binocular tube with PD adjusting knob
- VarioDist Objective Lens
- Balancing Arm
- 30° binocular extender and beam splitter
- Adapter for digital camera or Camcorder
- Inner Power Supply for Camera or Camcorder
- Wireless Foot Control Kit (option)

# RECOMMEND KITS

## C. Professional level Kit

OMS2350 Basic configuration with following upgrading or accessories

- 0° – 180° inclinable binocular tube with PD adjusting knob
- Balancing Arm
- VarioDist Objective Lens
- Integrated Full HD video camera
- 30° binocular extender and beam splitter
- Rotation Ring
- Adapter for digital camera or camcorder
- Inner power supply for digital camera or camcorder
- Wireless Foot Control Kit (option)



## D. Micro3D Kit

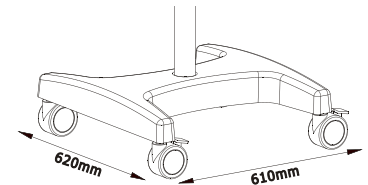
OMS2350 Basic configuration with following upgrading or accessories

- 0° – 180° inclinable binocular tube with PD adjusting knob
- Balancing Arm
- Integrated Micro3D Full HD Camera
- VarioDist Objective Lens

# TECHNICAL DATA

## Basic configuration

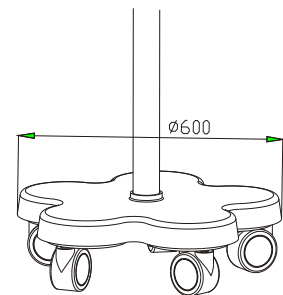
Magnification system	6-step manual magnification changer $\gamma = 0.3\times, 0.5\times, 0.8\times, 1.2\times, 2\times, 3\times$
Tubes	0° - 180° inclinable binocular tube, $f=170\text{mm}$
Eyepieces	12.5x wide-field eyepieces; also suitable for eyeglass wearers
Focus	F=250mm with fine focus fine focusing range 12mm
Illumination System	Integrated LED illumination >70,000Lx Light spot diameter: $\phi 86\text{mm}$ at $f=250\text{mm}$ objective lens Yellow and green integrated filter
Handgrip	Rotatable Handgrip and T-Handgrip
Mount mobility	120° coupler
Construction	Floor Stand with "H" shaped base



"H" shaped base

## Optional configuration

Tubes	0° - 180° inclinable binocular tube with PD adjusting knob, $f=170\text{mm}$
Eyepieces	10x/16x/20x wide-field eyepieces; also suitable for eyeglass wearers
Focus	F=300mm, $f=350\text{mm}$ , $f=400\text{mm}$ without fine focus VarioDist Objective Lens, Variable working distance 190-300mm
Mount mobility	Balancing Arm
Integrated Video System	Full HD1080p Standard Video Camera WirelessHM full HD Video transmission
External Video Solutions	Adapter for CANON/SONY/NIKON SLR camera Adapter for SONY Alpha series/Canon/Nikon Mirrorless cameras Adapter for CANON/SONY Digital Camcorders 30° binocular extender and beam Splitter 20%:80% or 50%:50% WirelessST Shutter foot control for SLR Camera
Optics	Double Iris Diaphragm Laser Filter
Construction	Floor Stand with "Star" shaped base Ceiling Mount, Wall Mount, Fixed Ground Mount or Tabletop Clip



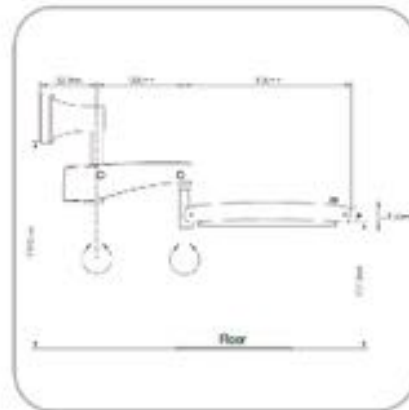
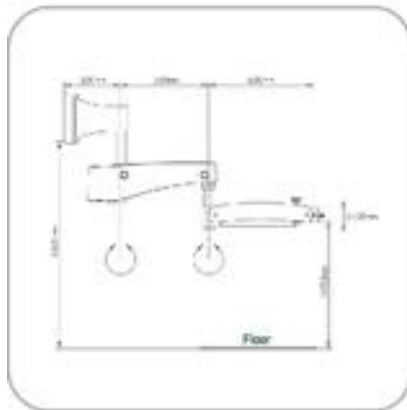
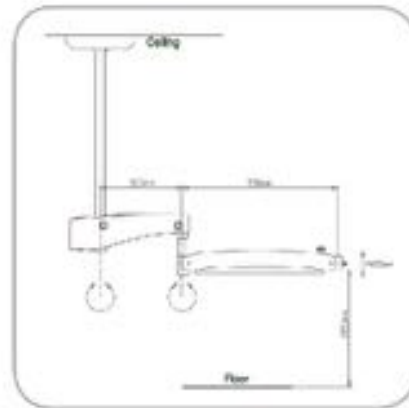
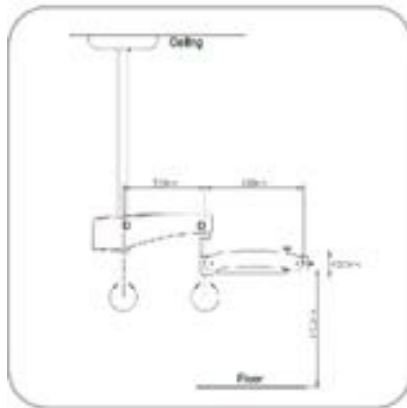
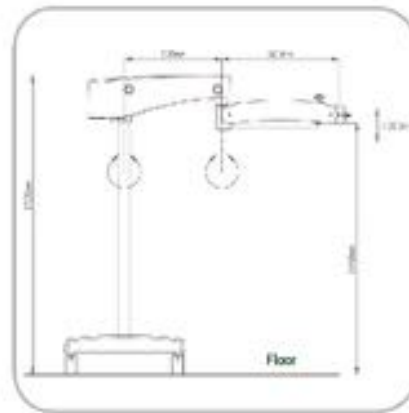
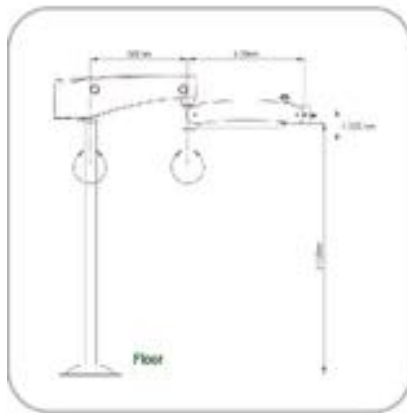
"Star" shaped base

## Micro3D configuration

Resolution	Full HD 1920x1080p pixels for each eye
Aspect Ratio	16:9
Output Video Format	3D HDMI
3D Format	Side-by-Side
Build-in Beam Splitter	For digital Camera or Camcorder

## Suggestion 3D Monitor configuration

Resolution	>1920x1080p
3D Format	Side-by-Side
3D Polarization	Passive



[www.zumaxmedical.com](http://www.zumaxmedical.com)

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