

Optical Grade Glass Lens avoids stress to user's eyes for long period working

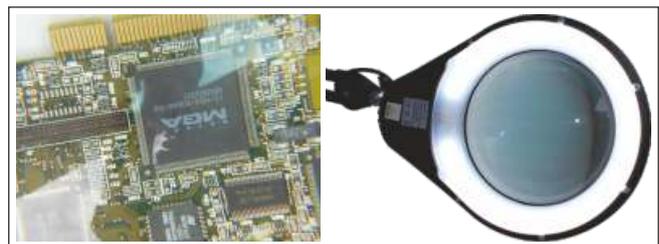
7 inch diameter Extra Wide View Lens
Fully ESD Safe against static charges

Model IML7WLSA-ESD



Features:

- Optical White Glass lens does not strain user's eyes
- Real ESD Safe design for static-free working
- Magnification 5X diopter avoids strain on eyes (higher magnification makes user uncomfortable)
- Very wide view Lens size of 180mm (7 inch) diameter
- LED Light Source is longer lasting (not like CFL Tube type which need replacement periodically)
- Flip Cover protects Lens from dust when not in use
- Operates on Mains input supply of 220~240V, 50 Hz



Non-reflecting LED light cover for inspection of shiny surfaces

Why LED types are preferred over CFL types ?

Type	Lifetime (hours) approx.	Power Consumed	Light Quality	Heat Generation	Toxic Mercury	ON/OFF Switching Cycles	Maintenance Running Cost
LED	>30000	6-8 Watt	Stable and Flicker-free	Virtually zero	Nil	Has No Effect	Virtually zero
CFL	8000	22 Watt	Unstable Flickering	High	Yes	Yes, it can reduce lifespan drastically	Need periodic replacement, also very fragile

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ESD Safe design with 3-wires Mains Supply Table Clamp type

Magnifying Lens with LED Lighting for QC

Model ICNESDO-5

- Magnification: 5 diopter
- Lens size: 125mm (5 inch) dia.
- Lens material: Optical Grade Glass
- Light Source: SMD LEDs
- Input Supply: 220~240 V, 50 Hz
- Body Colour: Black
- Mounting: Table clamp



Long life cool LED light

5X Magnification



Lower priced ESD Safe, Table Clamp type Magnifying Lens with LED Lighting for QC

Model I228L-ESD

- Real ESD Safe design for static-free working
- Magnification: 3 diopter
- Lens size: 125mm (5 inch) dia.
- Light Source: SMD LEDs
 - Lens material: Glass
- Input Supply: 220~240V, 50 Hz
 - Body Colour: Black
- Mounting: Table clamp



Long life cool LED lighting

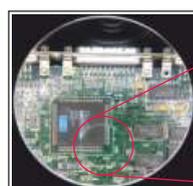


3X Magnification

ESD Safe Portable & Light Weight Magnifying Lens with LED Lighting for QC

Model ITMESD-1706

- Magnification: 3X (normal lens) and 12X (in embedded Lens)
- Lens Material: Glass
- 100mm (4 inch) Lens dia.
- Input Supply: 230V, 50 Hz
- Body Colour: ESD Safe Black
- Light Source: SMD LEDs
- Table Top type



3 diopter



12 diopter



Table Clamp type Magnifying Lens with LED Lighting for QC

Model I228L

- Magnification: 3 diopter
- Lens size: 125mm (5 inch) dia.
- Light Source: SMD LEDs
 - Lens material: Glass
- Input Supply: 220~240 V, 50 Hz
 - Body Colour: White
- Mounting: Table clamp



Long life cool LED light



3X Magnification

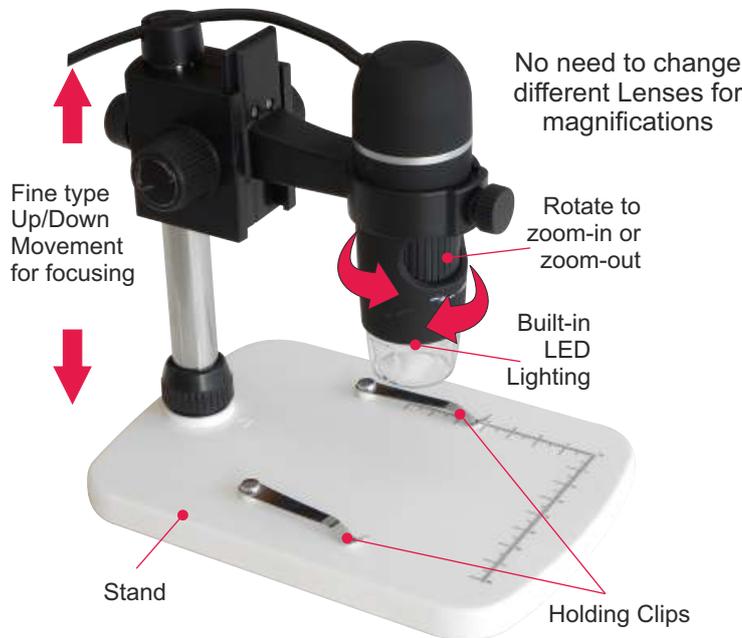
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Measure down to 1/1000 mm • Hi-resolution 5 Mega Pixels high quality images

Single Lens zooms to 300x magnification



Laptop shown is not a part of supply



5 Megapixel with fast image capturing gives high quality fine real time images

This USB high resolution Digital Video Microscope is a low cost solution when LED magnifying lens is not sufficient for QC Inspection. LED magnifying Lens is normally not recommended beyond 5x magnification for QC inspection to avoid strain on the eyes of QC Inspector. In those cases Model IDM-5MP provides right solution economically.

Salient features:

- No need for any external or internal interface card, plugs directly to USB Port of Computer.
- Brightness can be control manually

Model IUSB-5PS includes:

- Digital USB Microscope
- High quality fine UP/DOWN adjustment durable metallic Stand
- PC Interface Software
- Calibration Scale

Specifications:

Image sensor	:	5 Mega Pixels
Still capture resolution	:	2592x1944, 2048x1536, 1600x1200, 1280x960
Video capture resolution	:	1280x960
Focus Range	:	Manual focus from 0 mm to 150 mm (with Stand)
Frame Rate	:	30 fps @ VGA
Magnification Ratio	:	10x~300x
Video format	:	AVI
Photo format	:	JPEG or BMP
Light source	:	8 LEDs (adjustable by control wheel)
PC interface	:	USB 2.0
Power source	:	5V DC from USB port
Operation system	:	Windows 10, 8 and 7
Bundle software	:	MicroCapture Pro with measurement & calibration function
Measurement	:	By Software
Size Microscope	:	110mm (L) x 33mm (R) approx.
Professional Stand:	:	165mm(L) x118mm(W)x12mm (H) approx.

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ITDM-3015 combo Microscope innovates the traditional way of binocular viewing by adding modern digital imaging. It makes continuous production line QC inspection much easier and also fatigue-free by capturing/storing images as well provides instant viewing on the LCD Display Monitor besides providing real time optical binocular viewing.



Switch between Video and Eyepiece View

You can alternate the eyepiece observation and video capture by pushing or pulling the pole.



Independent Diopter Adjustment for each ocular

provided on both ocular to correct for specific eye-vision of users



Adjustable Interpupillary Distance

Interpupillary distance can be adjusted for each user as per his requirement

Features:

- Zoom Microscope allows continuous magnification with clear images throughout the zoom range.
- Clear stereo images, wide field of view, long working distance
- Ease of use: Load the software, use the PC interface into USB port of Computer and start taking high magnification images upto 1024 x 768 pixel and videos.
- Camera with features like auto gain control, auto exposure, control, auto white balance control
- Fully packaged solution: It is a complete system with all elements configured to work with each other including stereo zoom microscope, camera, illumination, cables (user only needs to provide PC)

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Specifications of Binocular Viewing with LCD Display Combo Microscope ITDM-3015

Display	: 8" (200mm) High Resolution LCD, Color
Device Dimension	: 1/3"
Horizontal Resolution	: 700TVline
Pixels	: 976(H)X582(V)
Scanning System	: 525 lines, 60 Frames/sec
Back Light Compensation	: Auto
Signal-to-Noise	: More than 46db
Gamma Characteristics	: 0.45
Minimum illumination	: 3.1 Lux
Input Voltage	: 12V DC (9V-14V) thru supplied Adaptor
Power Consumption	: Less than 1.85W
Pixel Space Between	: 0.213mm
Visual Angle	: 170/170(H/V)
Horizontal	: 30-61KHz
Vertical	: 60-75Hz
Colour	: 16,777,216 colours
Highest Mode	: 1024X768@75Hz
Sync. Video Signal	: H/V Separate, TTL,P or N.0.7Vp-p@75ohm
Colour System	: PAL/NTSC4.43/NTSC3.58/SECAM
Sound System	: BG/DK/I/M
Video Input	: 1.0Vp-p@75ohm
Audio Input	: 500mVrms
Power Consumption	: 9W
Energy-saving	: <1.0W
Head	: Trinocular Head, Interpupillary Distance 55-75mm, 45° Inclined, 360° Rotatable, Diopter Adjustable on both Eyepiece Tubes
Eyepiece	: W10x/22mm
Total Magnification	: 7x ~ 135x
Objective	: 0.7x ~ 4.5x
Work Distance	: 100mm (max.)
Light Source	: LED Light
C-mount	: 1 x
Large Base	: 250 x 350 mm (approx.)
Focus	: Rack and Pinion Focusing, with hand wheels for fine focus adjustment Focusing Range:75mm

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LCDScopePRO20 Video Microscope incorporates state-of-art technology and offers crystal clear picture quality under high magnification. It makes observations comfortable and eliminates fatigue for long duration viewing. This Microscope incorporates high performance CCD imaging, high resolution LCD Screen, Zoom Lens and Fine Optics in an ergonomic design. It is a powerful and complete visual QC inspection system.

The 35° angled Rotational Lens provides depth viewing in complete 360° area. The built-in LED Ring Light provides clarity in viewing. The built-in Laser Pointer is used to focus the inspection area. Supplied various Adapter Lenses provide wide range of magnifications from 8x to 198x to meet different requirements of different QC inspections.

Features

- 10" LCD Screen, rotatable vertically by 150°
- Magnification : 8x - 198x (with various lenses)
- Hi-resolution 1024x768 pixel digital image
- Built-in LED Ring Light with intensity control
- Laser Pointer for locating observation point
- Video output for external LCD/Plasma TV
- Heavy Duty Stand with precise movement
- Precision rack & pinion steel gears for fine focus
- Zoom allows continuous magnification with clear images throughout the zoom range.
- Wide field of view, working distance upto 200 mm
- Ease of use: load the software, plug the cable of Microscope into USB Port of Computer - It is now ready to capture high quality images and videos.
- PC Interface for computer connection
- Live full motion digital video capturing
- Complete packaged solution: it is a complete system with all elements configured to work with each other, including Zoom Microscope, CCD Camera, Measurement Software, Illumination, Cables (user only needs to provide PC)
- Stores images in JPEG & Video in AVI formats

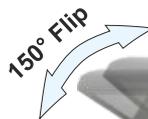
10" LCD Display (1024x768) with 150° UP/DOWN vertical viewing

Output for PC Interface & TV/LCD



Scope of Supply

- 10" LCD Zoom Microscope Body
- X-Y Adjustable Stage
- Laser Pointer
- 35° Angled View Rotational Lens
- PC Interface Module with Software
- 76mm LED High Track Stand
- 0.5X, 1X, 1.5X, 2X Lenses
- Ultra Mag Digital Video Microscope
- Head Mount Magnifier
- Calibration and Measurement Software (to use with Ultra mag Digital Microscope)
- 15 inch external LCD Monitor (Optional)



LCD Screen Rotation allows adjustment of the angle of viewing as per user's requirement

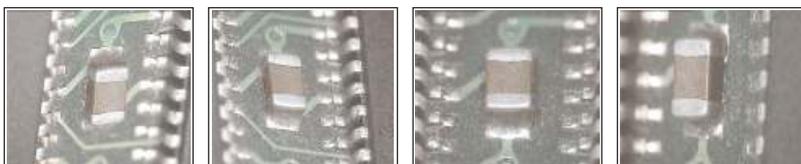
Various Lenses



Rotational inspection lens

35° 35°

Unique 35 degree Angled Lens for depth viewing as well for full circle rotational inspection



view from start view after 1/4 rotation view after 1/2 rotation view after 3/4 rotation

views of an object from various angles with rotational lens

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Rotational Angled Lens (35°) for 3-D viewing • 8x~198x Magnification



Software for PC Interface

Software is provided for PC interface with Computer. User can save images and videos in external Computer for QC analysis. User can also email saved images by using this software.

Magnification, Working Distance & Field of View (FOV) Specifications

Lens	Working Distance	Magnification	FOV
2x	50mm	30.8x ~ 198.1x	8.6 ~ 1.3 mm
1.5x	65mm	23.1x ~ 148.6x	11.4 ~ 1.8mm
1x	95mm	15.4x ~ 99.1x	17.1 ~ 2.7mm
0.5x	200mm	7.7x ~ 49.5x	34.3 ~ 5.3mm
Rotational Lens	50mm	12x ~ 80x	18 ~ 2.75mm



Track Stand with lighting

- Track Length: 500mm
- Travel Distance: 460mm
- Coaxial Focus: 23mm/circle
- Fine Focus: 0.56mm/circle
- Base Size: 320×316×21mm
- With a 95×5mm Glass Plate
- Voltage Input: AC 90-240V, 50/60Hz



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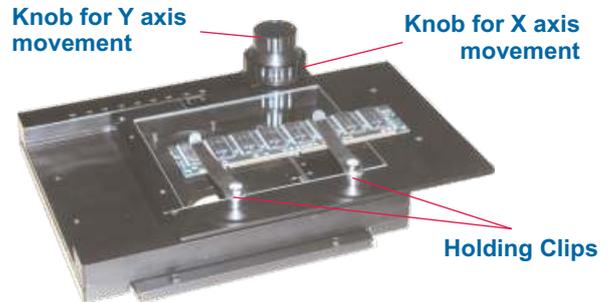
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Optional 15inch Monitor



Optional Laptop*



Choice of different Models available

- LCDScopePro20-Deluxe (no Laptop & no monitor)
- LCDScopePro20-Deluxe-Lap (with Laptop, no monitor)
- LCDScopePro20-Deluxe-Mon (no Laptop, with monitor)
- LCDScopePro20-Deluxe-LapMon (with Laptop & monitor)

* Laptop Computer supplied will be of any reputed make, with minimum or higher configuration: Dual Core Processor, 500 GB HDD, 1GB RAM, Windows Operating System. We will not be responsible for any after-sales-services or support both for hardware and software. Customer will have to contact the respective Computer Vendor's Service Centre directly.

Adjustable X-Y Stage for Object Positioning

- 75×56mm travel in X-Y
- 116×96mm back light window
- 95mm adapter is for stand base
- Easy to use knobs for X-Y adjustment

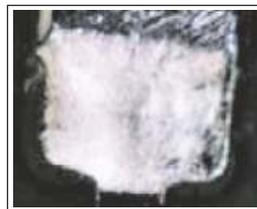
Various examples of QC inspection images for different objects with LCDScopePRO20



Microwave Bare Chip Bonding Inspection



SMD Pas Solder Lift-off Inspection



Leadfree Solder Joint Inspection



QFP SMD Pad Soldering Inspection



Gear Inspection



Metal Surface Inspection



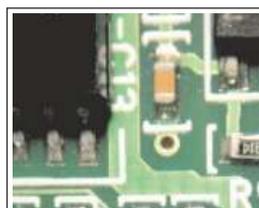
Rivet Inspection



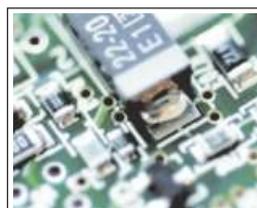
Metal Parts Inspection



SMD Inductor Inspection



SMD PCB Inspection



PCB Inspection



SMD Chip Inspection

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Magnification, Working Distance and Field of View (FOV) Specifications

Lens	Working Distance	Magnification	FOV	Lens	Working Distance	Magnification	FOV
2x	50mm	30.8x ~ 198.1x	8.6 ~ 1.3 mm	0.5x	200mm	7.7x ~ 49.5x	34.3~ 5.3mm
1.5x	65mm	23.1x ~ 148.6x	11.4 ~ 1.8mm	Rotational Lens	50mm	12x ~ 80x	18 ~ 2.75mm
1x	95mm	15.4x ~ 99.1x	17.1 ~ 2.7mm				

Technical Specifications for Hi-Performance & Hi-End Video Microscope for inspection

Display	10 inch LCD Monitor, 16ms High Definition Colour
Zoom Body	0.7x ~ 4.5x with reticle function
Zoom Ratio	1 : 6.5
Magnification Range	8x ~ 198x
Focusing Adjustment	90 mm (Max. Head Travel Distance)
Sensor	CCD
Resolution	1024 x 768
illumination Unit	Built-in LED Ring Light
Brightness Control	LED Array, can be controlled using Push Buttons
LCD Screen Rotation	150 degree
White Balance	Adjustable from Control Panel
Laser Pointer	650nm Laser Pointer for locating the point of observation
Video Output	BNC Connector and S-Video Connector for output to TV or LCD
Power Supply	230 VAC, 50Hz
Lenses types	Included 0.5x, 0.75x, 1x, 1.5x, 2x
Rotational Lens	Semi-Plan achromatic with special optics for rotational view
Bottom Lighting	LED with intensity control
Track Length of Stand	500mm
Travel Distance of Stand	460mm
Coaxial Focus	23mm/circle
Fine Focus	0.56mm/circle
Focus Movement	Using rack and pinion steel gears
Base Size	320×316×21mm
Glass Plate	95x5mm
X-Axis Travel of Stage	75mm
Y-Axis Travel of Stage	56mm
Backlight Window in XY Stage	116 x 96mm
Adaptor for Base	94mm
Software	Software for image & video capture, save, recall
Image Storage Format	JPG
Video Storage Format	AVI
Camera Control	Sharpness, Gamma, White Balance and Gain can be controlled
Camera Control	Brightness, Contrast, Hue, Saturation can be controlled

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