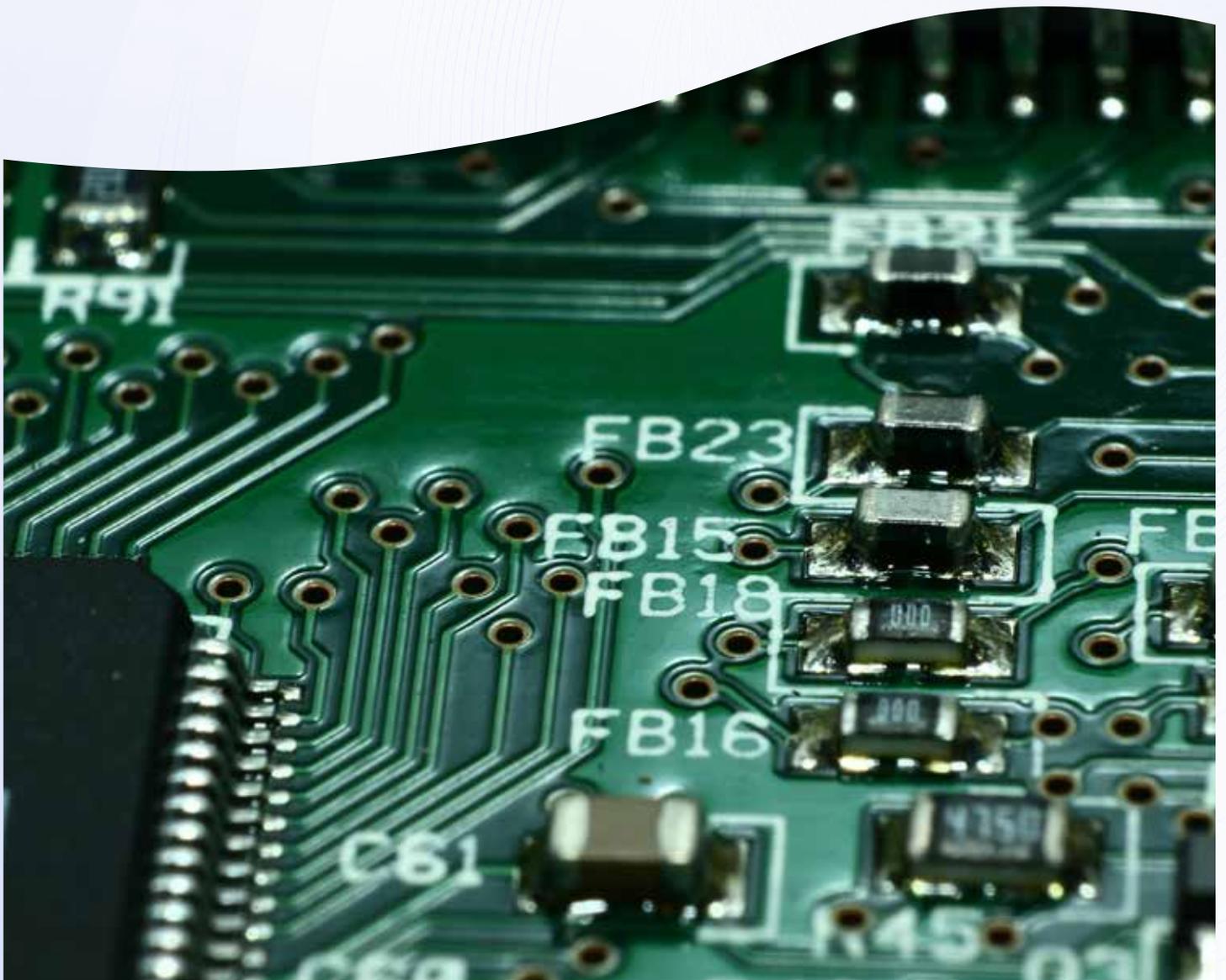




# TOKI VISION

SEE THE BIGGER PICTURE



## radOPTIC Microscopy

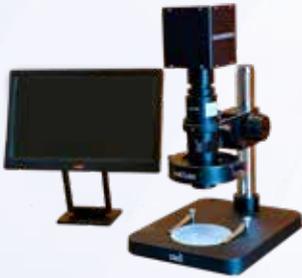


**RAD-SZ SERIES**



**RAD-SZJ SERIES**

## radVIS Visual Inspection System



**RAD-HDMI XDS SERIES**



**RAD-SZJ-TR SERIES**

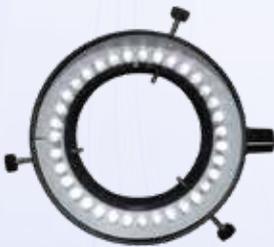


**RAD-DM8 SERIES**

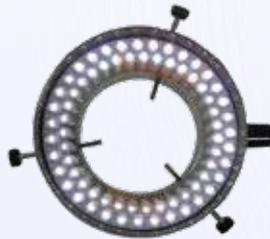


**RAD-AFL SERIES**

## radLUX Lighting



**RAD-MIL-30-1WP  
SINGLE ROW LED**



**RAD-MIL-30-2WP  
DOUBLE ROW LED**



**RAD-MIL-RBL  
BACK LIGHT**

## radCAM Industrial Camera



**RAD-HDMI-PRO-IVS**



**RAD-HDMI-PRO-M  
MEASUREMENT FUNCTION**

# MICROSCOPY

RAD-7045



**7045 - 1WP / 2WP**



**7045-TR - IVS / M**



**7045-TR - IVS / M with screen**

## HIGH RESOLUTION STEREO ZOOM MICROSCOPE WITH LED RING ILLUMINATION FOR MICROSCOPY

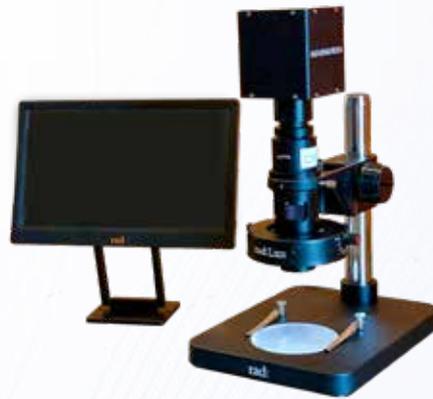
The Radiant 7045 Stereo Zoom Microscopes produce sharp and crystal clear images with excellent flatness and contrast. With their large zoom range and long-working distance, they are ideal for high-magnification and high-resolution observation.

The binocular headpiece comes with a pair of 10x lens and can be further enhanced into a trinocular headpiece with an additional 3rd lens attached to the radCam.

Model	7045 - 1WP	7045 - 2WP	7045-TR - IVS	7045-TR - M
<b>Display</b>	No Display	No Display	11.6" Retina Display	11.6" Retina Display
<b>Camera</b>	No Camera	No Camera	RAD-HDMI-PRO-IVS (Standard Camera)	RAD-HDMI-PRO-M (With Measurement function)
<b>LED Illumination</b>	Single Row with dimmer control	Double Row with dimmer control	Double Row with dimmer control	Double Row with dimmer control
<b>Viewing head</b>	45° inclined, 360° rotatable head			
<b>Headpiece</b>	Binocular	Binocular	Trinocular	Trinocular
<b>Eyepiece</b>	Wide field, high-eyepoint eyepiece			
<b>Objectives</b>	Zoom objective magnification 0.7X - 4.5X			
<b>Total Magnification range</b>	Between 3.5X - 180X			
<b>Working distance</b>	100mm Special maximum working distance: 30mm-165mm			

# VISUAL INSPECTION

RAD-XDS



XDS

## MONOCULAR ZOOM STEREO VIDEO MICROSCOPE FOR OBSERVATION, INSPECTION AND MEASUREMENT

The Rad-XDS stereo video microscope is used in electronic equipment, semiconductor, laser, LED, industrial online testing, biological research and many other industries for observation, inspection, and measurement. The high quality and fully coated optical system integrates to form clear and sharp images.

Model	XDS - IVS	XDS - M
Display	11.6" Retina Display	
Camera	RAD-HDMI-PRO-IVS (Standard Camera)	RAD-HDMI-PRO-M (With Measurement function)
Objective	Zoom objective magnification 0.7X - 5.0X	
Working Distance	105 mm	
Illumination	Double row LED with dimmer control	
Base	Standard base with Focusing Arm	

Magnification of Zoom Lens	Auxiliary Objective	Magnification of TV tube	Total Magnification	Resolution (um)	Depth of Field (mm)
0.7 x - 5 x	0.5x (WD - 170 mm)	0.4x	0.14x - 1.00x	33.55 - 9.32	34.07 - 1.54
0.7 x - 5 x	1.0x (WD - 105 mm)	0.4x	0.28x - 2.00x	16.78 - 4.79	8.52 - 0.40
0.7 x - 5 x	1.4x (WD - 100 mm)	0.4x	0.39x - 2.80x	11.98 - 3.33	4.35 - 0.20
0.7 x - 5 x	0.5x (WD - 170 mm)	0.7x	0.25x - 1.75x	33.55 - 9.32	21.83 - 1.06
0.7 x - 5 x	1.0x (WD - 105 mm)	0.7x	0.49x - 3.50x	16.78 - 4.66	5.46 - 0.26
0.7 x - 5 x	1.4x (WD - 100 mm)	0.7x	0.69x - 4.90x	11.98 - 3.33	2.78 - 0.14

# VISUAL INSPECTION

RAD-AFL



AFL

## BUILT-IN AUTO FOCUS SYSTEM FOR FAST, ACCURATE AND SMOOTH FOCUS

The Rad-AFL with integrated lens is easily operated and auto-focuses quickly. The optional and adjustable lighting fixtures ensure that the workpiece is lit up, while the large field of view enables inspection of a larger area of the board.

<b>Sensor Type</b>	Colour CMOS
<b>Pixel</b>	2MP
<b>Pixel Size</b>	1/2.8"
<b>Menu</b>	Full digital UI design
<b>Method of Operation</b>	Key control
<b>Power</b>	DC12V
<b>Output Method</b>	HDMI
<b>Display Frame Rate</b>	1080P @ 60 fps
<b>Scanning Method</b>	Line by line scanning
<b>White Balance</b>	Auto / Manual / One-push control
<b>Exposure</b>	Auto / Manual
<b>Electronic Shutter Speed</b>	1/50s (1/60s) ~ 1/10,000s
<b>Optical Magnification</b>	1~14
<b>Digital Magnification</b>	1~6
<b>Working Distance</b>	100 mm

Magnification (Zoom ratio)	FOV (100 mm Working Distance)	FOV (300 mm Working Distance)
1X	171 x 92 mm	420 x 230 mm
2X	89 x 50 mm	196 x 110 mm
3X	71 x 40 mm	150 x 84 mm
4X	60 x 33 mm	116 x 65 mm
5X	52 x 29 mm	101 x 57 mm
14X	24.3 x 13.5 mm	45.5 x 25 mm



# VISUAL INSPECTION

RAD-DM8



DM8

## FUSS-FREE HD DIGITAL MICROSCOPE FOR VISUAL INSPECTION AND MEASUREMENT

The Radiant DM8 is a seamless and easy-to-use digital microscope with minimal assembly required. It features a 12" display with user-friendly software that makes visual inspection and measurement simple and efficient.

<b>Display</b>	12" High Definition LCD, 1920 x 1080 resolution ~5-15 degrees tilting angle
<b>Zoom Lenses</b>	0.7X - 5.0X
<b>Camera</b>	2.0 Mega Pixels Built-In CMOS camera and measuring software
<b>Sensor Size</b>	1/2"
<b>Storage</b>	USB port available (USB not included)
<b>Output Interface</b>	HDMI, USB 2.0, with support for wireless mouse
<b>Objective</b>	1X, working distance: 105mm
<b>Illumination</b>	LED ring lamp with 56 bulbs and adjustable intensity. Colour temperature: 5000 - 5500 K
<b>Base</b>	Big plane base, lifting range 225mm
<b>Accessories</b>	0.2m HDMI cable, Wireless Mouse

Optical Zoom	Digital Zoom	Diagonal line of true field
0.7X	9.88X	29.82
1X	14.11X	28.88
1.5X	21.17X	13.92
2X	28.23X	10.44
3X	42.34X	6.96
4X	56.46X	5.22
5X	70.57X	4.18



**RAD-HDMI-PRO-M  
MEASUREMENT FUNCTION**

Model	RAD-HDMI-PRO-IVS	RAD-HDMI-PRO-M
Measurement Function	No	Yes
Sensor Size	1/2.8"	
Resolution	1920 x 1080	
Frame Rate	60fps	
Pixel Size	2.9um x 2.9um	
Sensor Size	2MP	
Storage	USB	
Interface	HDMI	
Power	12V DC	



**RAD-MIL-30-2WP  
DOUBLE ROW LED**

Model	RAD-1WP	RAD-2WP
LED	Japan Type, Single Row	Japan Type, Double Row
LED Colour	Pure White	
Power Input	110 - 240 VAC	
Current	75mA	100mA
Watt	1.8W Max	2.4W Max
Life Rating	50,000 hours	
ID Dimension	66 mm	
Casing Material	Aluminium with Powder Coat	
Light Control	Turning knob with dimmer control	
Working Distance	60 - 100 mm	

Model	RAD-RBL
Input	90 - 240 VAC
Watt	4W Max
Diameter	95 mm
Backlight Coverage	72 or 50 mm
Thickness	4.8 mm



**RAD-MIL-RBL  
BACK LIGHT**

Model	RAD-HDMI-RS11 (ST)
Screen Size	11.6"
Screen Ratio	16:9
Resolution	1920 x 1080
Display Mode	IPS-PRO
Contrast	1000 : 1
Interface	HDMI
Dot Pitch	0.1338mm
Brightness	320cd/m



**RAD-HDMI-RS11 (ST)  
11.6" Display**



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