



# Industrial Illuminated Magnifiers

- ✓ Designed for industrial applications using renowned Luxo arm technology
- ✓ Large, high quality optics, for comfortable and effective viewing
- ✓ Powerful, controllable light output using the latest LED technology
- ✓ ESD & UV variants available for specialist industry requirements
- ✓ Made in Norway

## WAVE LED ▪ Wave LED ESD Wave LED UV ▪ Wave LED ESD UV

Industrial rectangular lens LED bench magnifier



No knobs to tighten, nothing to adjust. The WAVE LED / LED ESD / LED UV / LED ESD UV has a flexible, self-balancing

head and hands free neck assembly which allows the lamp head to be secured in any position. The fully-enclosed neck design is ideal for mechanical, electronics, dental, jewellery and other precision applications, preventing dust/dirt build up for longer life and easier cleaning.

WAVE LED / LED ESD / LED UV / LED ESD UV offers shadow free magnification and 3 dimensional illumination with selectable left/right light control. Wave LED ESD and Wave LED ESD UV has been designed for industrial applications where electrostatic discharges can damage electronic components.

## Circus LED

Large diameter round bench magnifier



No knobs to tighten, nothing to adjust. Circus LED is specially designed to withstand the rigours of everyday use in industrial and

manufacturing applications where foreign object debris (FOD) is a concern.

Circus LED has a highly flexible, self-balancing head allowing it to be positioned vertically, horizontally and laterally. The fully enclosed neck and internal spring-balanced arm makes the Circus LED ideal for environments where cleanliness is sought.

## KFM ▪ KFM LED KFM LED ESD

Multi-purpose industrial bench magnifier



KFM / KFM LED / KFM LED ESD has a robust all-metal construction with sleek design, a flexible arm and excellent light output.

It is suitable for all industrial and professional applications.

The flexibility of the joint between the head and the arm makes exact positioning very easy. The quality of the LED illumination allows for virtually shadow-free magnification and excellent color rendering. KFM LED ESD is designed to drain away static charges, as they occur, in a controlled manner.

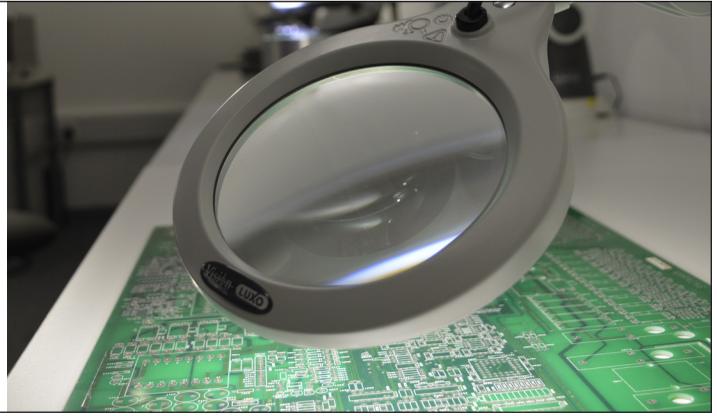
## LFM LED G2

### Lightweight illuminated bench magnifier



LFM LED G2 is a lightweight magnifier with all-metal construction, LED light source and a flexible internal spring-balanced arm. It is suitable for professional and industrial applications where cost effective, detailed magnification is required.

The LFM LED G2 is supplied with a 5" glass lens with either a 3 or 5 diopter primary lens. This bench magnifier is equipped with full circle, flicker-free illumination, resulting in virtually shadow-free viewing.



## Comparison Chart

Model	Light Source	Body Material & Color	Mounting	Optics	Arm Technology & Movement	Timer & Dimming
<b>Wave LED</b> <b>Wave LED ESD</b> <b>Wave LED UV</b> <b>Wave LED ESD UV</b>	2 x 6W dimmable LED modules. Brightness 4600 lux at 11" (279mm) focal length. 4000°K correlated color temperature (CCT). 80 color rendition index (CRI).	Steel arm, aluminium head in light grey. WAVE LED ESD steel arm, aluminium head, black only.	Edge clamp as standard. Weighted base and other clamps and mounts available.	3.5 (1.88x) or 5 (2.25x) diopter, 6.7" x 4.4" rectangular crown glass lens. (171mm x 114mm)	Heavy duty internal spring 45" or 30" (1143mm or 762mm) parallel, three-pivot K-arm.	Step dimming 0-50-100%. Selectable left / right illumination. Auto shut-off function.
<b>Circus LED</b>	10W total energy consumption. Brightness 3830 lux at 11" (279mm) focal length. 4000°K correlated color temperature (CCT). 90 color rendition index (CRI).	Steel arm with aluminium head. Fully enclosed neck design. White with black accents.	Edge clamp as standard.	3.5 (1.88x) or 5 (2.25x) diopter, 6.5" (165mm) diameter crown glass lens.	Heavy duty internal spring 45" (1143mm) parallel, three-pivot arm with 0.75" (19mm) diameter of steel tubing.	Dimming 10-100%. Auto shut-off function.
<b>KFM</b> <b>KFM LED</b> <b>KFM LED ESD</b>	2 x semi-circular 9W LED modules. Brightness 3000 lux at 13" (330mm) focal length. 4000°K correlated color temperature (CCT). 80 color rendition index (CRI). KFM, 22W cool white, circular fluorescent. Built-in starter switch.	KFM LED steel arm, aluminium head in light grey. KFM LED ESD steel arm, aluminium head, black only.	Edge clamp as standard. Weighted base and other clamps and mounts available.	3 (1.75x) or 5 (2.25x) diopter, 5" (127mm) white crown glass lens.	Heavy duty internal spring 45" or 30" (1143mm or 762mm) parallel, three-pivot K-arm.	LED light modules are dimmable 1-100%. Auto shut-off function.
<b>LFM LED G2</b>	9W dimmable LED modules. 1750 lux at focal length 13". 4000°K correlated color temperature (CCT). 80 color rendition index (CRI).	Die-cast aluminium housing in light grey.	Edge clamp as standard. Other mounts available.	Optics: 3 (1.75x) or 5 (2.25x) diopter, 5" (127mm) diameter lens.	Internal-spring 30" or 45" parallel, 3 pivot K-arm.	Step dimming 0-50-100%. 9/4 hour shut-off function.

NOTE: Secondary lenses are available for all models: 4, 6 or 10 diopter STAYS lens can be attached to the primary lens. Weighted base is available for 30" arm models only.

## Our Full Inspection Range

We offer a range of inspection microscopes to take your magnification to the next level. Our patented eyepiece-less optical microscopes offer superb 3 Dimensional images with ergonomic benefits to users. All systems can be fitted with a camera, making it ideal for image capture, training and reporting.

Our digital inspection microscope, EVO Cam, offers stunning image quality, live video streaming and a large field of view and working distance. Visit our website for more information.



EVO Cam II  
Digital Microscope



Camβ  
Handheld Digital Magnifier



Lynx EVO, Mantis Compact & Mantis Elite/HD Cam  
Eyepiece-less Stereo Microscope



SX Series  
Stereo Microscope

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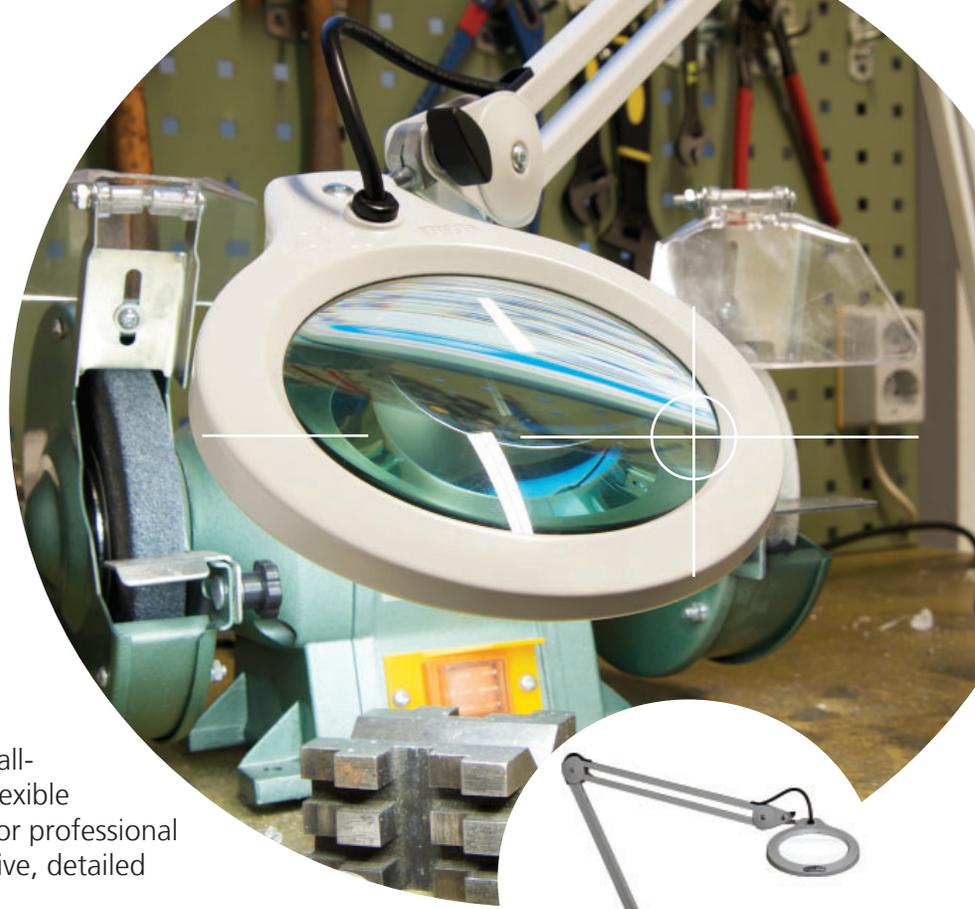
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## Bench Magnifiers

### LFM LED G2

#### Lightweight illuminated bench magnifier



#### LFM LED G2

LFM LED G2 is a lightweight magnifier with all-metal construction, LED light source and a flexible internal spring-balanced arm. It is suitable for professional and industrial applications where cost effective, detailed magnification is required.

The LFM LED G2 is supplied with a 5" glass lens with either a 3 or 5 diopter primary lens. This bench magnifier is equipped with full circle, flicker-free illumination, resulting in virtually shadow-free viewing.

Magnification Specification			
Primary lens diopter	Secondary lens diopter	Total magnification	Focal length
3.5	-	1.75x	13.0"
	4.0	2.75x	5.5"
	6.0	3.25x	4.3"
	10.0	4.25x	2.8"
5.0	-	2.25x	8"
	4.0	3.25x	4.3"
	6.0	3.75x	3.5"
	10.0	4.75x	2"

Technical Details	
Light Source	9W dimmable LED modules. 1750 lux at focal length 13" 4000°K correlated color temperature (CCT). 80 color rendition index (CRI).
Body Material & Color	Die-cast aluminium housing in light grey.
Mounting	Edge clamp as standard. Other mounts available.
Optics	3 (1.75x) or 5 (2.25x) diopter, 5" (127mm) diameter lens.
Arm Technology & Movement	Internal-spring 30" or 45" parallel, 3 pivot K-arm.
Timer & Dimming	Step dimming 0-50-100%. 9/4 hour shut-off function.

NOTE: Secondary lenses are available for all models: 4, 6 or 10 diopter STAYS lens can be attached to the primary lens.

Part Number	Description
LFG028214	LFM LED 45" arm, 3D lens and clamp
LFG028215	LFM LED 45" arm, 5D lens and clamp
LFG028216	LFM LED 30" arm, 3D lens and clamp
LFG028217	LFM LED 30" arm, 5D lens and clamp



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## Bench Magnifiers

### KFM LED

#### Heavy-duty round lens LED magnifier



KFM LED ■ KFM LED ESD

KFM LED and KFM LED ESD have a robust all-metal construction with sleek design, a flexible arm and excellent light output. It is suitable for all industrial and professional applications.

The flexibility of the joint between the head and the arm makes exact positioning very easy. The quality of the LED illumination allows for virtually shadow-free magnification and excellent color rendering. KFM LED ESD is designed to drain away static charges, as they occur, in a controlled manner.



Magnification Specification			
Primary lens diopter	Secondary lens diopter	Total magnification	Focal length
3.5	-	1.75x	13.0"
	4.0	2.75x	5.5"
	6.0	3.25x	4.3"
	10.0	4.25x	2.8"
5.0	-	2.25x	8"
	4.0	3.25x	4.3"
	6.0	3.75x	3.5"
	10.0	4.75x	2"

Technical Details	
Light Source	2 x semi-circular 9W dimmable LED modules 3000 lux at focal length 13" 4000°K correlated color temperature (CCT). 80 color rendition index (CRI)
Body Material & Color	KFM LED steel arm, aluminum head in light grey. KFM LED-ESD steel arm, aluminum head, black only.
Mounting	Edge clamp as standard. Other mounts available.
Optics	3 (1.75x) or 5 (2.25x) diopter, 5" (127mm) diameter white crown glass lens.
Arm Technology & Movement	Internal-spring, 30" or 45" parallel, 3 pivot K-arm.
Timer & Dimming	Dimming 1-100%. 4 or 9 hour auto shut-off function.

Part Number	Description
KFL026022	KFM LED, 45" arm, 3-D lens & clamp
KFL026024	KFM LED, 45" arm, 5-D lens & clamp
KFL026028	KFM LED, 30" arm, 3-D lens & clamp
KFL026029	KFM LED, 30" arm, 5-D lens & clamp
KFL026093	KFM LED-ESD, 45" arm, 3-D lens & clamp
KFL026027	KFM LED-ESD, 45" arm, 5-D lens & clamp

NOTE: Secondary lenses are available for all models: 4, 6 or 10 diopter STAYS lens can be attached to the primary lens.



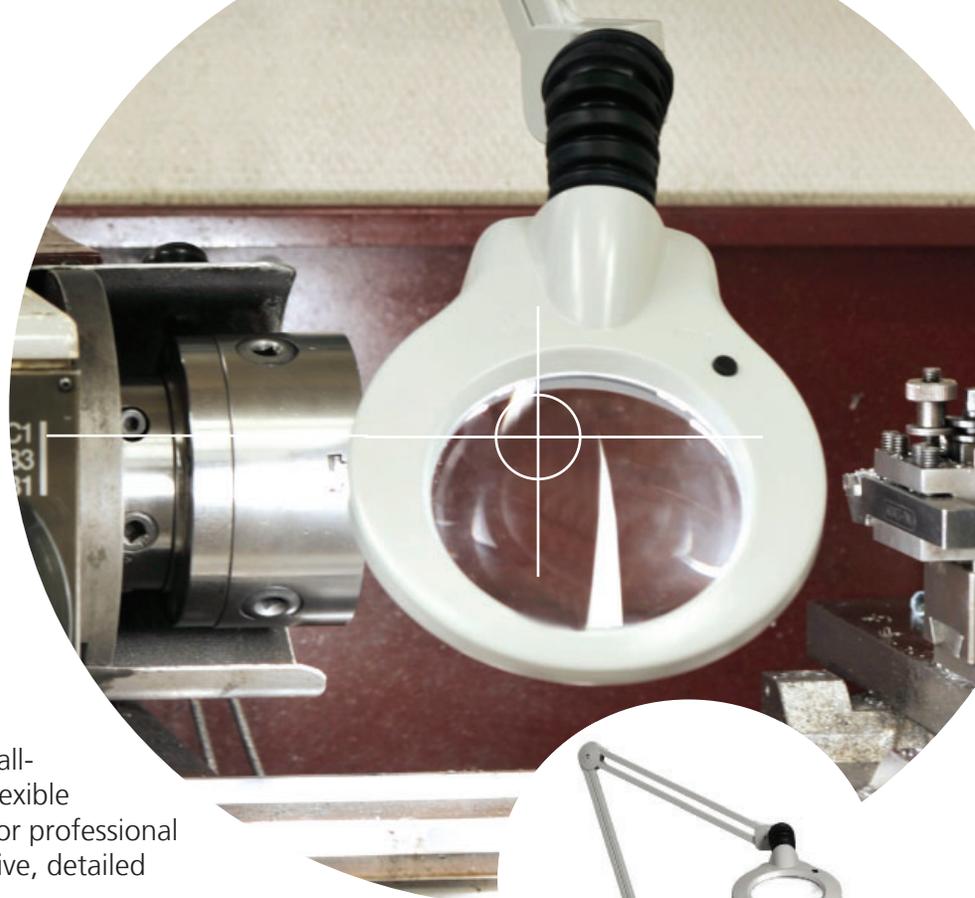
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## Bench Magnifiers

### KFM LED

#### Heavy-duty round lens LED magnifier



### LFM LED G2

LFM LED G2 is a lightweight magnifier with all-metal construction, LED light source and a flexible internal spring-balanced arm. It is suitable for professional and industrial applications where cost effective, detailed magnification is required.

The LFM LED G2 is supplied with a 5" glass lens with either a 3 or 5 diopter primary lens. This bench magnifier is equipped with full circle, flicker-free illumination, resulting in virtually shadow-free viewing.



Magnification Specification			
Primary lens diopter	Secondary lens diopter	Total magnification	Focal length
3.5	-	1.75x	13.0"
	4.0	2.75x	5.5"
	6.0	3.25x	4.3"
	10.0	4.25x	2.8"
5.0	-	2.25x	8"
	4.0	3.25x	4.3"
	6.0	3.75x	3.5"
	10.0	4.75x	2"

Technical Details	
Light Source	9W dimmable LED modules. 1750 lux at focal length 13" 4000°K correlated color temperature (CCT). 80 color rendition index (CRI).
Body Material & Color	Die-cast aluminium housing in light grey.
Mounting	Edge clamp as standard. Other mounts available.
Optics	3 (1.75x) or 5 (2.25x) diopter, 5" (127mm) diameter lens.
Arm Technology & Movement	Internal-spring 30" or 45" parallel, 3 pivot K-arm.
Timer & Dimming	Step dimming 0-50-100%. 9/4 hour shut-off function.

Part Number	Description
LFG028214	LFM LED 45" arm, 3D lens and clamp
LFG028215	LFM LED 45" arm, 5D lens and clamp
LFG028216	LFM LED 30" arm, 3D lens and clamp
LFG028217	LFM LED 30" arm, 5D lens and clamp

NOTE: Secondary lenses are available for all models: 4, 6 or 10 diopter STAYS lens can be attached to the primary lens.



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## Bench Magnifiers

### Wave®

#### Rectangular lens LED magnifier

WAVE LED ▪ Wave LED ESD  
Wave LED UV ▪ Wave LED ESD UV

No knobs to tighten, nothing to adjust. The WAVE LED / LED ESD / LED UV / LED ESD UV has a flexible, self-balancing head and hands free neck assembly which allows the lamp head to be secured in any position. The fully-enclosed neck design is ideal for mechanical, electronics, dental, jewelry and other precision applications, preventing dust/dirt build up for longer life and easier cleaning.

WAVE LED / LED ESD / LED UV / LED ESD UV offers shadow free magnification and 3 dimensional illumination with selectable left/ right light control. Wave LED ESD and Wave LED ESD UV has been designed for industrial applications where electrostatic discharges can damage electronic components.



Magnification Specification			
Primary lens diopter	Secondary lens diopter	Total Magnification	Focal length
3.5	-	1.88x	13"
	4.0	2.88x	5.5"
	6.0	3.38x	4.3"
	10.0	4.38x	2.8"
5.0	-	2.25x	8"
	4.0	3.25x	4.3"
	6.0	3.75x	3.5"
	10.0	4.75x	2"



Technical Details	
Light Source	2 x 6W dimmable LED modules 4600 lux at focal length 11" 4000°K correlated color temperature (CCT). 80 color rendition index (CRI)
Body Material & Color	WAVE LED steel arm, aluminum head in light grey; WAVE LED-ESD and WAVE LED ESD UV steel arm, aluminum head, black only.
Mounting	Edge clamp as standard. Other mounts available.
Optics	3.5 (1.88x) or 5 (2.25x) diopter, 6.7" x 4.4" (171mm x 114mm)) rectangular crown glass lens.
Arm Technology & Movement	Internal-spring, 30" or 45" parallel, 3 pivot K-arm.
Timer & Dimming	Step dimming 0-50-100%. Selectable left/right illumination. 4 or 9 hour auto shut-off function.

NOTE: Secondary lenses are available for all models: 4, 6 or 10 diopter STAYS lens can be attached to the primary lens.

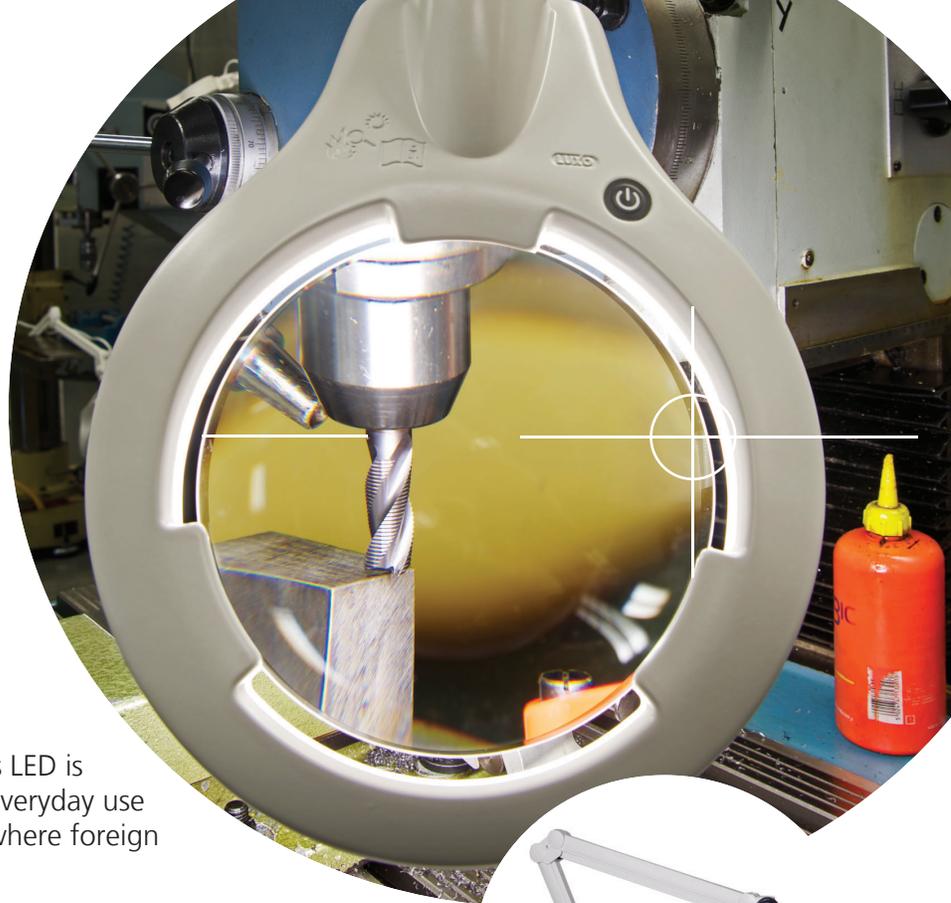
Part Number	Description
WAL025968	WAVE LED, 45" arm, 3.5-D lens and clamp
WAL025969	WAVE LED, 45" arm, 5-D lens and clamp
WAL025970	WAVE LED, 30" arm, 3.5-D lens and clamp
WAL025971	WAVE LED, 30" arm, 5-D lens and clamp
WAL025972	WAVE LED-ESD, 45" arm, 3.5-D lens and clamp
WAL025973	WAVE LED-ESD, 45" arm, 5-D lens and clamp
WAL025974	WAVE LED-ESD, 30" arm, 3.5-D lens and clamp
WAL025975	WAVE LED-ESD, 30" arm, 5-D lens and clamp
WAL026408	WAVE LED UV, 45" arm, 3.5-D lens and clamp
WAL026409	WAVE LED UV, 45" arm, 5-D lens and clamp
WAL026780	WAVE LED-ESD UV, 45" arm, 3.5-D lens and clamp
WAL026781	WAVE LED-ESD UV, 45" arm, 5-D lens and clamp



## Bench Magnifiers

### Circus LED®

#### Large diameter round LED bench magnifier



#### Circus LED

No knobs to tighten, nothing to adjust. Circus LED is specially designed to withstand the rigors of everyday use in industrial and manufacturing applications where foreign object debris (FOD) is a concern.

Circus LED has a highly flexible, self-balancing head allowing it to be positioned vertically, horizontally and laterally. The fully enclosed neck and internal spring-balanced arm makes the Circus LED ideal for environments where cleanliness is sought.



Magnification Specification			
Primary lens diopter	Secondary lens diopter	Total Magnification	Focal length
3.5	-	1.88x	13"
	4.0	2.88x	5.5"
	6.0	3.38x	4.3"
	10.0	4.38x	2.8"
5.0	-	2.25x	8"
	4.0	3.25x	4.3"
	6.0	3.75x	3.5"
	10.0	4.75x	2"

Technical Details	
Light Source	10W total energy consumption 3830 lux at focal length 11" 4000°K correlated color temperature (CCT). 90 color rendition index (CRI)
Body Material & Color	Steel arm with aluminum head. Fully enclosed neck design. White with black accents.
Mounting	Edge clamp as standard.
Optics	3.5 (1.88x) or 5 (2.25x) diopter, 6.5" (165mm) diameter crown glass lens.
Arm Technology & Movement	Internal-spring, 45" parallel, 3 pivot K-arm with 0.75" (19mm) diameter of steel tubing.
Timer & Dimming	Dimming 10-100%. 4 or 9 hour auto shut-off function.

NOTE: Secondary lenses are available for all models: 4, 6 or 10 diopter STAYS lens can be attached to the primary lens.

Part Number	Description
CIL026698	Circus LED 45" arm, 3.5-D lens and clamp
CIL026699	Circus LED 45" arm, 5-D lens and clamp



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## BenchKam for Bench Magnifiers

BenchKam is unique to Vision Engineering and adds the option to capture and share images for users of Vision-Luxo Wave LED and Circus LED magnifiers. With the demand for image capture and sharing increasing users of Vision -Luxo Wave LED and Circus LED magnifiers can stay ahead of the trend.

### Key Features:

- ✓ Exclusive to Vision Engineering
- ✓ Easy image capture
- ✓ Maintains 3D view available through the magnifier
- ✓ Image capture, sharing and streaming available through the supplied software
- ✓ Available in HD and Full HD versions

BenchKam can be used in conjunction with Vision-Luxo models Wave LED and Circus LED magnifiers, both of which boast K-arm technology, spring balanced arms. Lamp heads can be secured in any position without drifting. The Wave LED comes in specialist UV and ESD variants and both models offer controllable 3D or ring lighting.

BenchKam is ideal for mechanical, electronics, plastics, dental, jewellery and other precision applications.

### Key Benefits:

**Quick & Convenient Image Capture** - Can be used for documentation, reporting and sharing with customers, suppliers and colleagues. Ultimately helping with multi-tier supply chain management.

**Clear Workspace** - Fitting neatly onto both the Vision-Luxo Wave LED and Circus LED magnifiers; BenchKam can be conveniently left on the units, so there is no need for storing the camera separately.

**Training** - A useful tool that can be used to share a live stream with colleagues and customers. When inspecting samples, BenchKam can add new capabilities and collaboration by allowing multiple people to view the subject at the same time.



# BenchKam

## for Bench Magnifiers

### Cameras:

Designed to work with HD or Full HD webcams, BenchKam adapters are easily fitted to any Vision-Luxo Wave LED or Circus LED magnifiers. Compatible with Windows 7, 8, 8.1 and 10, BenchKam is easy and convenient to use and does not take away valuable workspace for storage.

	Full HD Camera	HD Camera
		
<b>Resolution</b>	Full HD 1080p 1920 x 1080	HD 1280 x 720
<b>Focus</b>	Autofocus Lens	Autofocus Lens
<b>Lens</b>	Glass	Plastic
<b>Cable</b>	91cm (3 ft)	183cm (6 ft)
<b>Connection</b>	USB 2.0	USB 2.0

Part Number	Description
VLA002	BenchKam bracket for Wave LED
VLA003	BenchKam bracket for Circus LED
VLA006	BenchKam Wave HD Camera Kit
VLA007	BenchKam Wave Full HD Camera Kit
VLA008	BenchKam Circus HD Camera Kit
VLA009	BenchKam Circus Full HD Camera Kit

### Software:

Logitech cameras are supplied with dedicated software. This software can be downloaded from the links below. Once the Logitech drivers have been installed the cameras can also be used with a range of third party software to meet the customers requirements.

[https://support.logitech.com/en\\_us/product/hd-webcam-c615/downloads](https://support.logitech.com/en_us/product/hd-webcam-c615/downloads)

[https://support.logitech.com/en\\_us/product/hd-webcam-c525/downloads](https://support.logitech.com/en_us/product/hd-webcam-c525/downloads)



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