

GX Microscopes

Stereo Microscopes Range



How We Classify Stereo Microscopes

Stereo microscopes, also known as low magnification and dissecting microscopes share a number of common, fundamental components. Examples of all these components can be found in this range datasheet.

Pair of Angled Objectives, by definition all stereo microscopes have these, they are typically hidden in the end/nose of the microscope, each objective connects to its own eyepiece. Because they are angled they give a '3D' or 'Stereo' view of the subject.

Microscope Head, sometimes called the 'body' this accommodates all optical components and any magnification changing mechanism. There are several types of microscope head, **this is the main way that different types of stereo microscopes are classified**, and priced, examples of all these types are included in this product range datasheet.

The head types are:

- o **Single Magnification** (to change magnification you have to remove and insert different objectives and eyepieces) these are the lowest priced microscope heads, the low price does not necessarily mean that the image quality is less good. This type of head typically has a rectangular objective holder.
- o **Dual Magnification** sometimes called 'Turret' microscope heads. In this type of microscope head there are 2 pairs of objectives in the 'nose' of the microscope head. Each pair has a different magnification eg 1x and 3X or 2x and 4X (total mags 10X/30X or 20X/40X with the std 10X eyepieces), to engage the magnification required you rotate the nosepiece. Additional magnifications can be obtained by also changing the eyepieces. This class of microscope costs roughly 2X more than single magnification microscopes.
- o **Zoom Magnification** this is the most commonly purchased type of stereo microscope. They are popular because you have a continuous range of magnifications controlled by a zoom knob eg 0.7X to 4.5X (total mags 7X to 45X with the std 10X eyepieces) and because you can also add auxiliary objectives eg 0.5X, 0.75X, 1.5X or 2X which change the zoom magnification range proportionately and also alter the working distance. This type of microscope can also have the largest range of illumination accessories attached such as ring lights. You can also obtain zoom microscopes with 'trinocular heads' (T suffix) which gives the user an additional vertical photoport onto which a camera can be attached with the appropriate camera adapter. These microscopes roughly cost 2X more than dual magnification microscopes. In summary zoom microscopes give the greatest range of magnifications, working distances, photo options, accessories and are the most convenient to use – no wonder they are popular!



Microscope Stand, the head attaches to the stand, some stands include built-in illumination, most include a focus mechanism. Sometimes the stand is divided into 2 two further components:

- 1) the **Focussing Ring** – this **holds the dual magnification and zoom heads** and has a rack & pinion focus mechanism, the focussing ring attaches to the stand by either sliding onto a pole (or arbour) or by fitting into an 'E-Arm' socket
- 2) The **Microscope Stand** onto which the focussing ring will connect, there are numerous different types of stand such as long reach stands, pillar stands, track stands, wall mounted stands and floor stands.



Microscope Accessories such as:

- Illumination sources
 - Additional eyepieces & objectives
 - Attachable XY mechanical stages
 - Camera adapters
 - Cameras
- Fibre Optics
Dual Gooseneck
Halogen/LED
 - Fibre Optics
Ring Light
Halogen/LED
 - Spot Lights
Halogen/LED
 - Ring Lights
LED
 - Ring Lights
Fluorescent
 - Light Panels
Fluorescent/LED



GX Microscopes

GX Microscopes Stereo Microscope Product Range Summary

Type	Model	Total Magnification (+ accessories)	Working Distance mm (+ accessories)	Illumination Direction Lamp Type Adjustability	Illumination options	Stand type	Stand options					
Single Mag	GXMXTX-1C	10X (10x-120X)	53 (53-22)	Top & Bottom Halogen On/Off	- Fibre Optics - Spot Lights	Pillar	None					
	GXMXTX-1D	20X-40X (10x-120X)	53-32 (53-22)									
	GXMXTX-1E	10X-30X (10x-120X)	53-44 (53-22)									
	GXMXTX-1F	10x-60X (10x-120X)	53-22 (53-22)									
	GXMC2-D	10X (2.5X-20X)	230 (250-230)	Top Incandescent On/Off	- Fibre Optics - Spot Lights - Bottom Light Panel	Boom Arm	None					
Dual Mag	GXMXTC-2A	10X-30X (10X-60X)	88	Top Halogen/LED Adjustable	- Fibre Optics - Spot Lights	Arm	Head will also fit to boom arm & articulated arm stands					
	GXMXTC-2A1					Pillar						
	GXMXTC-2B	20X-40X (20X-80X)				Arm						
	GXMXTC-2B1	Pillar										
	GXMXTC-3A	10X-30X (10X-60X)		Arm								
	GXMXTC-3A1	Pillar										
	GXMXTC-3B	20X-40X (20X-80X)		Arm								
	GXMXTC-3B1	Pillar										
	GXMXTC3AV1	10X-30X (10X-60X)		None	- Fibre Optics - Spot Lights (necessary)	Boom Arm	Head will also fit to Pillar and Arm stands					
	GXMXTC3AV6					Boom Arm						
GXMXTC3AV7	Articulat ed Arm											
Zoom Mag	GXMXTL101	7X-45X (3.5X-220X)	88 (137-25)	Top & Bottom Halogen/LED Adjustable	- Fibre Optics - Spot Lights - Ring Lights	Pillar	Head will also fit to boom arm & articulated arm Stands					
	GXMXTL101T (Trinocular)			Top Halogen/LED Adjustable								
	GXMXTL102			- Fibre Optics - Spot Lights - Ring Lights (necessary)								
	GXMXTL102 (Trinocular)											
	GXMXTL103A							None				
	GXMXTL103AT (Trinocular)											
	GXMXTL103B											
	GXMXTL103BT (Trinocular)											
	GXMXTL103C											
	GXMXTL103CT (Trinocular)											
	GXMXTL3V1			Boom Arm	Head will also fit to Pillar and Arm stands							
	GXMXTL3TV1 (Trinocular)											
	GXMXTL3V6			Articulat ed Arm								
	GXMXTL3TV6 (Trinocular)											
	GXMXTL3V7											
	GXMXTL3TV7 (Trinocular)											
	GXMMZS0745 (T models – Trinocular)	7X-45x (3.5X-270X)	118 (200-35)	Base models– None L models – Top & Bottom, Halogen/ Adjustable	- Fibre Optics - Spot Lights - Ring Lights	Base models - Arm R models - Pillar	Head will also fit to boom arm & articulated arm Stands					
	GXMYSX & LZJ	2.4X-12X	200-400	Integral Coaxial halogen fibre Optic	None	Floor and bench Clamp	None					

GX Microscopes



**Single Magnification
Microscopes**

GX Microscopes

product datasheet

XTX Series

Stereo Microscopes



Specifications:				
Model:	XTX-1C	XTX-1D	XTX-1E	XTX-1F
Total Magnification	10X	20/40X	10/30X	10-60X
Objectives All objectives can be supplied as accessories so, for instance you can make a XTX-1F from a XTX-1C by adding 1X, 4X, and 6X accessory objectives.	1X	2X & 4X	1X & 3X	1X, 2X, 4X & 6X
Eyepieces	Pair WF10X (optional 15X, 20X)			
Effective Working Distance	53mm			
Illumination	Transmitted light halogen lamp, halogen lamp top light			
Stand	Metal Stand with Vertical Pillar Focus mechanism with rack and pinion gears Interpupillary distance adjustment			
Options	15X and 20x eyepieces to give a maximum achievable magnification of 120X (20x with 6X objective) Objectives 1X, 2X, 3X, 4X, 6X Eyepiece microscope cameras Additional illumination sources			

The XTX series stereo microscopes provide great value for such high performance. These are classed as single magnification microscopes which can have a range of auxiliary objectives and eyepieces inserted to achieve different magnifications.

Each microscope is equipped with high quality glass optics, a sturdy metal stand and built-in top and bottom halogen lamp illumination.

The microscopes are designed for observations of small objects such as entomological collections, pond dipping, plant material, microfossils, rocks and industrial inspection.

The simplicity of design and robustness of build makes it particularly suitable for use by the young enthusiast and in schools and colleges.

Every microscope is equipped with a pair of objectives mounted in a removable, rectangular objective cartridge and a pair of wide-field eyepieces.

The binocular head is mounted on the focus mechanism which, in turn is mounted on a vertical pillar.

The head can be moved up the pillar to accommodate larger specimens.

The head has interpupillary distance adjustment and the left eyepiece has diopter adjustment. This makes the microscope suitable for prolonged use without undue eyestrain.

A highly popular choice for schools, colleges, industry and research.

Due to our policy of continuous development specifications may change without notice

GX Microscopes

C-2D

Ultra-long
working distance
stereo microscope

product datasheet



Specifications								
Model:	C-2D							
Head	Binocular with: <ul style="list-style-type: none"> • adjustable interocular distance 55 - 75mm • tiltable • includes incident illumination • long working distance objectives • rack and pinion focus mechanism 							
Eyepieces	Two X10WF, left ocular has adjustable dioptre +/-5dp							
Stand	<ul style="list-style-type: none"> • Heavy base for optimum stability • High quality vertical and horizontal poles with adjustable clamps • Power supply in base with on/off switch 							
Objectives (Working Distance)	Eyepieces							
	5X		10X (Std)		15X		20X	
	Mag	FOV	Mag	FOV	Mag	FOV	Mag	FOV
0.5X (250mm)	2.5X	40mm	5X	40mm	7.5X	30mm	10X	20mm
1X (Std) (230mm)	5X	20mm	10X	20mm	15X	15mm	20X	10mm
Options								
Objective	0.5X							
Eyepieces	5X, 15X, 15X, 20X							
Stands	Contact GX Microscopes for the latest options							
Extra Light sources	L1 Fibre Optic Lamphouse L2 Single flexible fibre optic illuminator stalk L3 Dual flexible fibre optic illuminator stalk (see separate GX Microscopes L Series Datasheet)							

FOV = field of view diameter (max)
Mag = magnification to the observer

The C-2D microscope is ideal for those inspection tasks requiring plenty of room between the microscope and the object under observation. This microscope includes a set of remarkable objectives that can give 230 – 250 mm working distance.

The image presented to the observer is clear, bright and sharp. For maximum comfort the interocular distance is adjustable and the left eyepiece allows dioptre adjustment of up to +/-5dp. In addition, the basic stand (included in the price) allows you to adjust not only the position but also the tilt angle of the head. This means that the widest number of people can use this microscope comfortably over prolonged viewing periods. The microscopes include a 12V 10W lamp built into the head.

This microscope is compatible with GX Microscopes' L1, L2 and L3 illumination systems for those requiring the greatest flexibility in microscope positioning and object illumination.

To record or display an image from this microscope GX Microscopes' DCE-1 digital eyepiece camera can be easily attached.

This microscope has been specifically designed for workplace environments such as electronics assembly, jewellery work, component checking and inspection and precious stone examination.

GX Microscopes



**Dual Magnification
Microscopes**

GX Microscopes

product datasheet

XTC Series Stereo Microscopes



XTC-3A1
With 'pillar' stand



XTC-2B
With 'arm' stand

The XTC series of stereo microscopes are one of GX Microscopes most popular ranges, they provide all-round extremely high quality images at great value prices.

Each microscope in the range is equipped with 2 pairs of angled objectives mounted in a revolving nosepiece and a pair of wide-field eyepieces. Each objective links directly to one of the angled objectives, this gives a stunning 3 dimensional image of your specimen. The optical quality is very high giving a very bright, crisp 3D image of the specimen.

The binocular head is inclined at a comfortable 45°, can be easily rotated through 360°, has interpupillary distance adjustment and the left eyepiece has diopter adjustment. This makes these microscopes suitable for ergonomic use by the greatest number of people.

The illumination can be incident or transmitted or both dependent on the model selected.

The main body can be supported by an arm or column type stand. The arm stand is suitable for constant viewing of subjects of a known height.

The pillar stand is ideal for subjects that may vary significantly in height as it allows you to reposition the head of the microscope up the pillar. You can also reverse the head away from the base (requires counterbalancing weights on the base).

**A great choice for
schools, colleges,
industry and research.**

Specifications:				
Model:	XTC-2A XTC-2A1	XTC-2B XTC-2B1	XTC-3A XTC-3A1	XTC-3B XTC-3B1
Total Magnification	10-30X	20-40X	10-30X	20-40X
Objectives	1X/3X	2X/4X	1X/3X	2X/4X
Eyepieces (FOV=field of view)	WF10X 20mm FOV (WF15X & 20X optional)			
Effective Working Distance	88mm			
Illumination	6V/8W halogen Lamp, reflected light		6V/8W halogen lamp, reflected light also transmitted light (or both)	
Support Pillars	Column have '1' suffix e.g. XTC-2B1 All others have arm			

Optional

- ✓ **Cameras**
- ✓ **Camera Adapters**
- ✓ **Long Reach Stands**
- ✓ **Additional illumination**



See cameras
datasheet



See long reach
microscopes
datasheet

GX Microscopes



**Zoom Magnification
Microscopes**

GX Microscopes

product datasheet

XTL-101, 102 & 103 Series

Stereo Zoom
Microscopes



XTL-103B with large base



XTL-101 & 102 with built-in lights



XTL-103A with flat base and insert



XTL-101 with built-in lights



XTL-101 head and focus ring mounted on a V7 articulated arm stand

Wide Choice of Stands

Choose from:

- ✓ stands with illumination built-in (XTL-101 & XTL-102)
- ✓ stands with flat bases (XTL-103 & XTL-103B)
- ✓ stand with mechanical XY stage built-in (XTL-103C)



(XTL-103C with XY stage)

The XTL head also fits our range of long reach stands:

- ✓ V6 dual arm boom
- ✓ V1 boom arm with rack and pinion end extender
- ✓ V7 articulated spring-counterbalanced arm
- ✓ V Flexarm G-Clamp counterbalanced
- ✓ The V7 stands can be wall mounted



V Flexarm

Representing the very latest design in stereo microscopy.

The XTL – 101, 102 & 103 microscopes provide the highest quality stereo imaging at exceptionally low prices. These ergonomic microscopes include high quality objectives whose clarity and brightness produce outstanding results.

They include a zoom range encompassing 0.7x - 4.5x magnifications. With the standard 10x widefield eyepieces this gives a total magnification range of 7X - 45X. This range can be enhanced with optional auxiliary objectives and different eyepieces to give a total range spanning 3.5X – 210X.

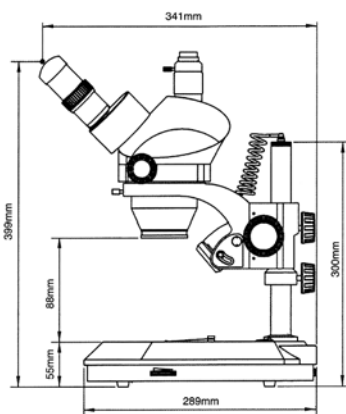
The microscope is equipped with conveniently positioned zoom and focus control knobs.

On the XTL-101 models illumination is integrated into the base and head providing both incident and transmitted light making this microscope a versatile tool for all types of biological and materials studies.

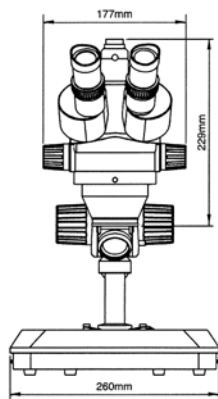
The XTL-102 models include incident illumination only and the XTL-103 models are equipped with flat bases suitable for robust industrial materials inspection and require external illumination sources such as GX Microscope's L Series.

This series of microscopes can be supplied with a very wide range of accessories including cameras, stands, illumination systems and even digital depth probes.

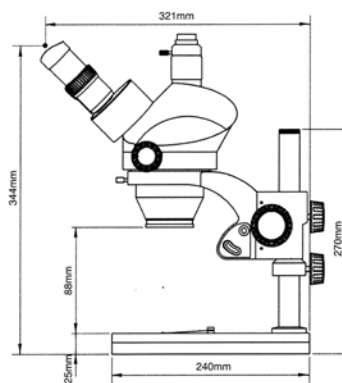
Specifications	Model:	XTL-101	XTL-101T	XTL-102	XTL-102T	XTL-103	XTL-103T
Zoom Magnification	Graduated continuous zoom control knob 7X – 45X with standard 10X WF eyepieces						
Head 45 deg inclined binoculars. Rotatable through 360 degrees	Eyepieces (Std)	10X Widefield/20mm					
	Working Distance	88mm as standard with no auxiliary objective fitted					
	Type	Binocular	Trinocular	Binocular	Trinocular	Binocular	Trinocular
	Eyepiece tube	Diopter settings on both eyepieces. Adjustable interocular distance					
	Camera port Requires specific camera adapter	None	Adjustable parfocality	None	Adjustable parfocality	None	Adjustable parfocality
Focusing Ring Mount	Head support ring	Inner diameter 83 mm					
	Focus	High precision rack and pinion mechanism					
	Integral incident light	Adjustable intensity Adjustable angle halogen spot				None, requires GX Microscopes L-Series illuminator	
Support Pillar	Polished high grade steel	Height adjustment locking clamp Power socket for incident lamp allowing easy head removal 24.5cm height (plus base height)					
Base		Adjustable intensity halogen illumination on XTL-101 versions only Opaque white insert (92mm diam) Base dimensions (working surface): W26cm(23cm) x D30cm(20cm) x H57mm				Available in 2 versions with no base illumination. Made of tough, scratch resistant painted steel: 103(T)A : 240 x 148mm with white insert and specimen clips. 103(T)B : 300 x 240mm large base.	
Power	Separate power adaptor	Mains 110/220V input DC output				None	
Accessories	See accessories section						



XTL-101T and XTL102T



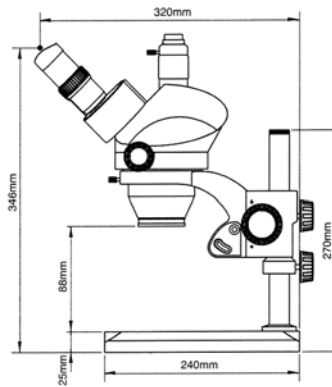
XTL-103AT



XTL-103BT

Options for use with Long Reach Stands for larger specimen examination

Model:	Binocular Head Only:	Trinocular (T) Head Only
Part Number	XTL101-BHEAD	XTL101-THEAD
Requires Focussing Ring	XTL-101FR	
Requires Stand	V1, V2, V3, V6 or V7	
Requires Illumination	Fibre Optics: L1 lamphouse with L1 or L2 or L4 Fluorescent ring light: RFL-8	



GX Microscopes

XTL-101/2/3 Series Accessories

Specification of auxiliary objectives and eyepieces – XTL-101/2/3						
Eyepiece \ Objective		Main body	0.5X objective	0.75X objective	1.5X objective	2X objective
		0.7x-4.5x	0.35x-2.10x	0.49x-3.15x	1.05x-6.3x	1.4x-8.4x
10x (std)	Total magnification	7x-45x	3.5x-22.5x	5.3x-31.5x	10.6x-63x	14x-90x
	Diameter of visual field(mm)	31-5.2	62x-9.6x	38-6.4	19-3.2	14.3-2.4
15x	Total magnification	10.5x-63x	5.3x-31.5x	7.9x-47.5x	15.8x-94.6x	21x-126x
	Diameter of visual field(mm)	21.4-3.6	42.8-7.2	28.5-4.8	14.2-2.4	10.7-1.8
20x	Total magnification	14x-84x	7x-42x	10.6x-33x	21.2x-126x	28x-168x
	Diameter of visual field(mm)	17.1-2.9	34.3-5.7	22.9-3.8	11.4-1.9	8.6-1.4
25x	Total magnification	17.5x-105x	8.8x-52.5x	13.1x-78.8x	26.3x-157.5x	35x-220x
	Diameter of visual field(mm)	12.9-2.1	25.7-4	17.1-2.9	8.6-1.4	6.4-1.1
Working Distance(mm)		88	137	103	48	25



Auxiliary Objectives
See above



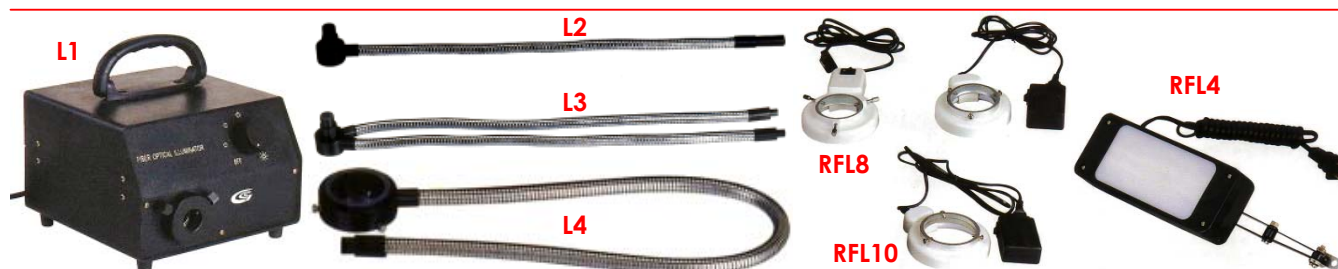
CCTV and Photo Adaptors
C-mount camera adaptor



Widefield Eyepieces
See above



Darkfield Attachment and Gem Holder
DF – Darkfield
GH – Gem Holder



Additional Illumination Options - L Series



Additional Stand Options – V Series

GX Microscopes

product datasheet



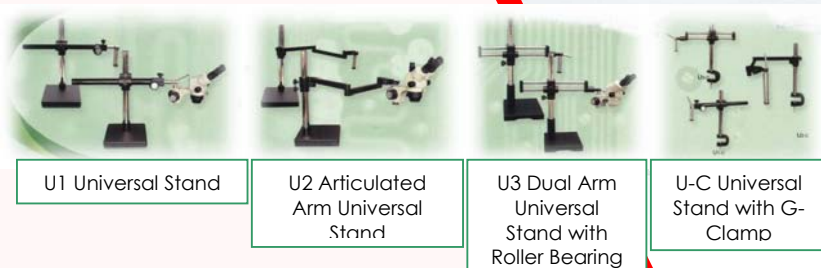
MZS0745 Series

Professional long
working distance
stereo zoom
microscopes

This range of high quality zoom stereo microscopes are capable of handling almost any inspection task with convenience and comfort. With a diverse range of models and a host of stands, illumination, magnification and viewing options, this versatile range represents great value for money.

The magnification ranges from 1.75X to 270X dependant on eyepieces and objective used. The working distance is up to 200mm, ideal for manipulation work.

The range of conventional and boom arm stands allows these microscopes to be conveniently used in any area. The illumination and darkfield attachments ensure the best possible viewing conditions.



U1 Universal Stand

U2 Articulated
Arm Universal
Stand

U3 Dual Arm
Universal
Stand with
Roller Bearing

U-C Universal
Stand with G-
Clamp

MZS0745 Specifications

Model:	MZS0745	L	R	L-R	T	TL	T-R	TL-R
Head Type	Binocular, inclined 45deg, dioptre adjustment, interpupillary adjustment				Trinocular, inclined 45deg, dioptre adjustment, interpupillary adjustment			
Eyepieces	High Eyepoint Widefield 10X/23mm							
Stand Type	Arm-type		Pillar -type		Arm-type		Pillar -type	
Illumination	None built-in	Built-in upper and base illumination	None built-in	Built-in upper and base illumination	None built-in	Built-in upper and base illumination	None built-in	Built-in upper and base illumination
Zoom Magnification Range	0.7X-4.5X							
Working Distance	118mm (up to 200mm with auxiliary objectives)							

Supplied to you by:

www.gxmicroscopes.com

Due to our policy of continuous development specifications may change without notice

June 08

MZS0745 Series Accessories



Auxiliary Objectives and Eyepieces

See below



Darkfield Attachment and Gem Holder

MZ-DF – Darkfield
MZ-GH – Gem Holder



CCTV and Photo Adaptors

MZ-CCD1X
1X c-mount camera adaptor
MZ-CCD0.5X
0.5X c-mount camera adaptor



Illumination Options

MZ-FS – Lamphouse and single fibre optic guide
MZ-FD – Lamphouse and dual fibre optic guide
MZ-FR – Lamphouse and fibre optic ring light

Specification of auxiliary large objectives and eyepieces

Eyepiece \ Objective		Main body	0.5X objective	0.75X objective	1.5X objective	2X objective
		0.7x-4.5x	0.35x-2.25x	0.49x-3.15x	1.05x-6.75x	1.4x-9x
5x	Total magnification	3.5x-22.5x	1.75x-11.3x	2.5x-15.8x	5.3x-33.8x	7x-45x
	Diameter of visual field(mm)	32.8-5.1	65.7-10.2	46.9-7.3	21.9-34	16.4-2.6
10x	Total magnification	7x-45x	3.5x-22.5x	4.9x-31.5x	10.5x-67.5x	14x-90x
	Diameter of visual field(mm)	32.8-5.1	65.7x-10.2x	46.9-7.3	21.9-3.4	16.4-2.6
15x	Total magnification	10.5x-67.5x	5.3x-33.8x	7.4x-47.2x	15.8x-101.3x	21x-135x
	Diameter of visual field(mm)	24.3-3.8	48.6-7.6	34.7-5.4	16.2-2.5	12.1-1.9
20x	Total magnification	14x-90x	7x-45x	9.8x-63x	21x-135x	28x-180x
	Diameter of visual field(mm)	20-3.1	40-6.2	28.6-4.4	13.3-2.1	10-1.6
30x	Total magnification	21x-135x	10.5x-67.5x	14.7x-94.5x	31.5x-202.5x	42x-270x
	Diameter of visual field(mm)	12.9-2	25.7-4	18.4-2.9	8.6-1.6	6.4-1
Working Distance(mm)		118	200	145	50	35

GX Microscopes



**Long Reach Dual & Zoom
Magnification Microscopes**

GX Microscopes

product datasheet

Long Reach Stereo Microscopes

Articulated Arm Microscopes	Dual Arm Boom Microscopes	Boom Arm Microscopes
 <p>GXMXTL3TV7 with LED Ring Light & Camera</p>	 <p>GXMXTL3TV6 with LED Ring Light & Camera</p>	 <p>GXMXTL3TV1 with LED Ring Light & Camera</p>
 <p>GXMXTC3AV7</p>	 <p>GXMXTC3AV6</p>	 <p>GXMXTC3AV1</p>

GX Microscopes specialise in the supply of the widest range of long reach microscope solutions for industry, research, education and hobbyists.

The microscopes shown in this datasheet are based on the GX Microscopes V-series of stands with either the XTL3* zoom stereo microscope head or the XTC3A dual magnification stereo microscope head. Each microscope can be supplied with a number of useful accessories such as LED ring lights and digital microscope cameras. The systems shown here include the most popular long reach microscope configurations in our range. The microscopes have extremely high quality optics in tough metal cases and are proven workhorses in numerous industrial applications. As with all GX Microscopes products the prices represent amazing value for money making these microscopes suitable for almost any use where long reach is required.

CHOICE OF THREE MICROSCOPE HEADS (a pair of WF10X eyepieces is supplied as standard):

XTL3* Stereo Zoom Magnification Microscope Head

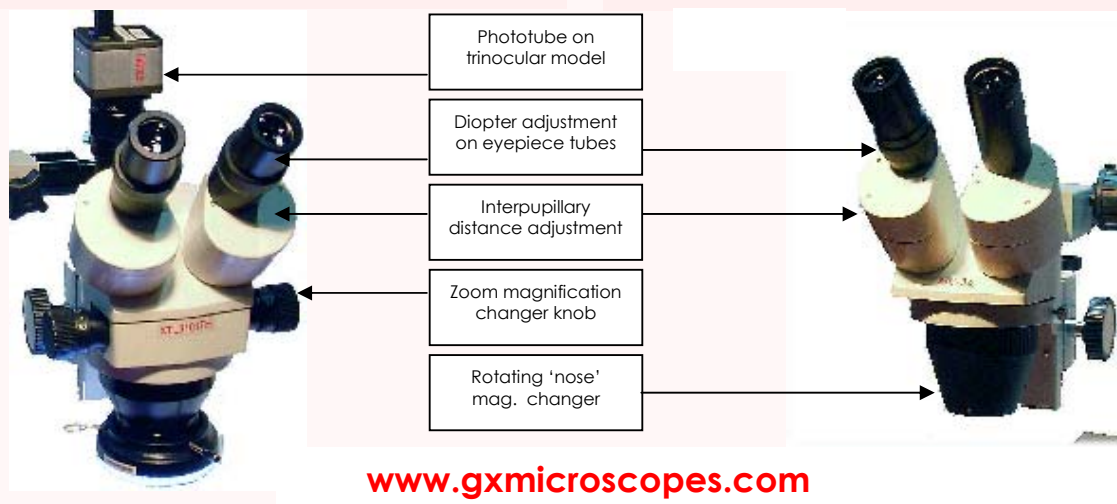
available in two versions:

- 1) **XTL3** (binocular)
- 2) **XTL3T** (trinocular)

shown with a GXCAM-3 camera & a LED ring light (GXMNORMA341103) attached. Magnification: 7X-45X expandable to 3.5X-210X with optional objectives & additional eyepieces

XTC3A Stereo Dual Magnification Microscope Head

Magnification: **10x and 30X** expandable to 20X - 60X with additional eyepieces





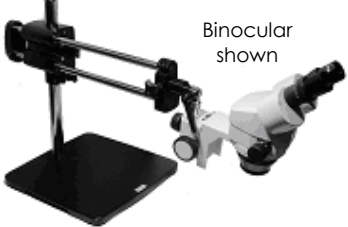



www.gxmicroscopes.com

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product datasheet

Long Reach Stereo Microscopes

Product Code	Microscope Head	Stand	Illumination	Camera & Adapter	
GXMTC3AV1	XTC3A Binocular 10x/30X Dual Mag	GXMV1 Boom Arm Reach: 573mm plus focussing ring	Option free standing illuminators	Optional for eyepiece	
GXMTC3AV6	XTC3A Binocular 10x/30X Dual Mag	GXMV6 Boom Arm Reach: 370mm plus focussing ring	Option free standing illuminators	Optional for eyepiece	
GXMTC3AV7	XTC3A Binocular 10x/30X Dual Mag	GXMV7 Articulated Arm Reach: 846mm plus focussing ring	Option free standing illuminators	Optional for eyepiece	
GXMXTL3V1	XTL3 Binocular 7X-45X Zoom Mag	GXMV1 Boom Arm Reach: 573mm plus focussing ring	Optional LED Ring Light & free standing illuminators	Optional for eyepiece	 Trinocular shown
GXMXTL3TV1	XTL3T Trinocular 7X-45X Zoom Mag			Optional for Phototube	
GXMXTL3V6	XTL3 Binocular 7X-45X Zoom Mag	GXMV6 Boom Arm Reach: 370mm plus focussing ring	Optional LED Ring Light & free standing illuminators	Optional for eyepiece	 Binocular shown
GXMXTL3TV6	XTL3T Trinocular 7X-45X Zoom Mag			Optional for Phototube	
GXMXTL3V7	XTL3 Binocular 7X-45X Zoom Mag	GXMV7 Articulated Arm Reach: 846mm plus focussing ring	Optional LED Ring Light & free standing illuminators	Optional for eyepiece	
GXMXTL3TV7	XTL3T Trinocular 7X-45X Zoom Mag			Optional for Phototube	



We can also supply wall-mounted articulated arms, floor stand articulated arms, pneumatic arms, bench clamp arms and motorised, height-adjustable microscope tables. Ask eurosales@gxoptical.com

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product datasheet

Accessories for XTL & XTC Stereo Microscopes

Product Code	Description	Suitable for use with	Specification	
Optional Auxiliary Objectives (for XTL* stereo zoom microscopes only)				
XTLOBJ0.5X	0.5X Objective	XTL3*	Mag range: 3.5X -22.5X WD 137mm	
XTLOBJ 0.75X	0.75X Objective	XTL3*	Mag range: 5.25X -3.75X WD 103mm	
XTLOBJ 1.5X	1.5X Objective	XTL3*	Mag range: 10.5X -67.5X WD 48	
XTLOBJ 2X	2X Objective	XTL3*	Mag range: 14X -90X WD 25	
Optional Eyepieces for XTC* and XTL3* microscopes				
GXMXTLEY15X2	Pair eyepieces	All microscopes	15x magnification	
GXMXTLEY20X2	Pair eyepieces	All microscopes	20x magnification	
GXMXTLEY25X2	Pair eyepieces	All microscopes		
GXMXTLEY10XRET	Reticle Eyepiece	All microscopes	WF 10X focusing Eyepiece with 10mm/100divs Reticule	

Effect of adding of auxiliary objectives and eyepieces to XTL* Microscope Heads

Eyepiece \ Objective		Main body	0.5X objective	0.75X objective	1.5X objective	2X objective
		0.7x-4.5x	0.35x-2.25x	0.49x-3.4x	1.05x-6.8x	1.4x-9x
10x (std)	Total magnification	7x-45x	3.5x-22x	5.3x-34x	10.5x-68x	14x-90x
	Diameter of visual field(mm)	31-5.2	62x-9.6x	38-6.4	19-3.2	14.3-2.4
15x	Total magnification	10.5x-68x	5.3x-33	7.9x-51x	15.8x-102x	21x-148x
	Diameter of visual field(mm)	21.4-3.6	42.8-7.2	28.5-4.8	14.2-2.4	10.7-1.8
20x	Total magnification	14x-90x	7x-45x	10.6x-68x	21.2x-136x	28x-180x
	Diameter of visual field(mm)	17.1-2.9	34.3-5.7	22.9-3.8	11.4-1.9	8.6-1.4
25x	Total magnification	17.5x-112.5x	8.8x-56x	13.1x-85x	26.3x-169x	35x-225x
	Diameter of visual field(mm)	12.9-2.1	25.7-4	17.1-2.9	8.6-1.4	6.4-1.1
Working Distance(mm)		88	137	103	48	25

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Ultra-Long Reach Microscope Range

The GX Microscopes range of ultra-long reach microscopes provide outstanding versatility at great value prices. This makes them ideal for the inspection of large specimens and those specimens that cannot be mounted on a bench.

The microscopes are all supplied with integral, high intensity, coaxial illumination systems and articulated microscope head mounts with click-stop zoom optics for comfortable, prolonged viewing. The stands are very stable with integral counterbalancing and locking systems.

The range includes multiple viewing ports, camera attachments, motorisation with foot pedal control and, of course a range of optical magnifications. Some models include motorised zoom and motorised focusing systems. The illumination systems are cold light sources.

These microscopes are commonly used in operating theatres, clinics, dentists, veterinary practices and research laboratories.



YSX-101



YSX-102



YSX-120



YSX-107



SOM-2000C



YZ-20P5



YSX-104



LZJ-11

Specifications and Descriptions:

YSX Series

The YSX range includes 12 models of high quality ultra-long reach, coaxially illuminated microscopes, a selection of the most popular models are featured in this datasheet. The models come with a variety of mounting, viewing and working distance facilities to suit different applications.

All models are equipped with halogen-tungsten lamps and cold-light fibre-optic coaxial illumination. They are ideally suited to meet the needs of scientists, inspection teams and medical staff.

They are widely used in industry where ultimate image quality, illumination quality, comfort and long reach are required.

Observation Unit for 101, 102, 120 models

Binocular straight observation unit	f'=87mm
Binocular tilted observation unit	f'=87mm, f'=174mm
Focal length of objective assembly	f'=200mm, f'=250mm, f'=300mm, f'=400mm
Magnifications	0.6X, 1X, 1.6X
Stand	both floor type and table type available
Movable arm	both long and short arms available

Model	Description
YSX-101	Binocular straight observation, long arm and floor type
YSX-102	Binocular tilted observation, long arm and floor type
YSX-120	Binocular straight observation, long arm and floor type. Camera or secondary observation tube attachable.
YSX-104	Binocular straight observation, long arm and table type

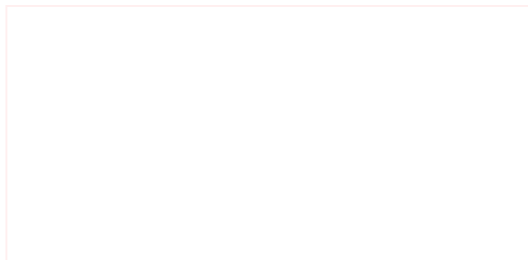
YSX-107 (Multi-Function)

1. Straight binocular observation unit (F=87mm)	6x
F=200mm	200mm working distance
F=250mm	250mm working distance
F=300mm	300mm working distance
F=400mm	400mm working distance
3. Magnifications	0.6x, 1x, 1.6x
4. Total magnification	2.4x-12X
5. Fine focusing range	10mm

SOM-2000C (advanced zoom microscope)	
Magnification of eyepiece	12.5X
Visual angle of eyepieces	60°-90°continuously adjustable
Working Distance	170mm
Magnification	4.5X-25X ZOOM
Diameter of Visual Field	Ø50- Ø9(mm)
Illumination	6°+0°coaxial illumination, 26°oblique illumination
Light source	12V 100W halogen lamp
Illumination control	continuously digital adjustable
Lux on objective plane	100,000LX
Focusing range and speed	40mm,speed continuously adjustable
X-Y range and speed	50mmx50mm,speed continuously adjustable
YZ-20P5 (light weight 33Kgs)	
<p>This binocular operating microscope provides 3 levels of magnification, very high definition images and a large field of view. The cold light source provides bright, comfortable and even illumination of the subject.</p> <p>The arm is finely balanced with tensioned springs allowing great freedom of movement and comfortable positioning at any position.</p> <p>This instrument provides control of position, magnification, focusing (can be controlled with footswitch) and inclination.</p>	
Focus Length of Objective lens	f200, 250, 300, 350(mm)
Magnification of Eyepiece	12.5X/16B
Working Distance	190 – 240mm
Inclination of binocular eyepiece tubes	45°
Dioptre adjustment range of eyepiece	+/- 6D
Interpupillary distance of eyepieces	50 – 70mm
Height of eyepiece eyecups	18mm
Magnification(f200)	5.3X,8X,12X
Diameter of Visual Field(f200)	Ø38&-Ø25,Ø17 (mm)
Illumination	6°+0°coaxial illumination
Light source	12V/100W halogen lamp
Illumination control	continuously adjustable
Lux on objective plane	30,000 - 80,000Lx
Range and speed of focusing	30mm(2mm/s)
Maximum reach of arm	870mm
Vertical movement range (from floor to front of objective)	700 – 1100mm

LZJ-11 (Multi-function, Advanced)	
Features:	
This advanced operating microscope is suitable for almost any operating procedure.	
Tiltable binocular tube system with a continuous tilting range of 0-90 deg.	
Parallel optical path for the additional binocular and monocular viewing ports including full synchronisation of movement, focus, light path, magnification, field of view and orientation.	
Motorized focusing system with a zoom rate of 1:5	
Coaxial internal illumination system	
Six degrees of freedom of movement	
Range of stand's vertical movement	500mm
Fine focusing range	50mm Aiming speed @ 2mm/s
Microscope's range of movement - up and down and from side to side	180°
Motorised zoom speed	2r/m
Interpupillary distance of main and assistant' binocular heads	55 – 72mm
The head can be equipped with X-Y coupling, movement range	40mm
Cold light source illumination	24V150W
Maximum reach of stand's horizontal arm	1030mm
Swing angle of the carrier arm	240°
Working Distance	Diameter of Visual Field
f'=200	5-25X, 42.5 – 8.5mm
f'=250	4-20X, 53 – 10.6mm
f'=300	3.3-16.7X, 64 – 12.6mm
f'=350	3-14.3X, 74 – 15mm
f'=400	2.5-125X, 85 – 17mm

Supplied to you by:



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Due to our policy of continuous development specifications may change without notice

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product datasheet

Accessories for Stereo Microscopes

Illumination Options: (see separate illuminators datasheet for full range of options)				
Product Code	Description	Suitable for use with	Specification	
GXMNORMA341103	LED Ring Light	XTL* microscopes	60 LEDs, separate adjustable intensity power supply	
GXMLEDYK-B144T		XTL* microscopes	144 LEDs, separate adjustable intensity power supply and segment control	
GXML1 with GXML3	Fibre Optic Illuminator	All microscopes	GXML1 150W fibre optic lamphouse with GXML3 dual fibre optic goosenecks	
GXML1 with GXML4		XTL* microscopes	GXML1 150W fibre optic lamphouse with GXML4 fibre optic ringlight	
GXMRF-8	Fluorescent Ring Light	XTL* microscopes	8W low temperature diffuse ring light	
Camera Options: (see cameras range on www.gxoptical.com website for full range of options)				
GXCAM-1.3 GXCAM-3 GXCAM-5	Digital USB Microscope Cameras	Fits XTX, XTC, XTL Binocular Heads Requires eyepiece adapter (included with the camera kits) Fits XTL Trinocular Heads Requires C-mount camera adapter (option - below) GXMADCM0.5XXTLPLAN	Choice of 1.3MP, 3MP & 5MP Live Image Cameras Colour, USB Connection to PC Image processing, camera control and measurement s/w included	 
GXMADCM0.5XXTLPLAN	C-Mount Camera Adapter	XTL3T Trinocular Head	0.5X Plan	

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Within the GX Microscopes range there are many additional optional stand types such as G-clamp articulated arms or floor standing boom arms and illumination sources such as fibre optics - please ask your local GX Microscopes supplier or visit our website if you cannot find what you need in this range. Examples of items available but not detailed in this datasheet are shown below:



GX Microscopes is a division of **GT Vision Ltd** specialising in the design and manufacture of the **GX Microscopes** brand of microscopes.

GT Vision Ltd is the largest independent supplier of microscopes and microscopy imaging and automation systems in the UK.

If you wish to obtain more details of these products please call or e-mail us:

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