

GX Microscopes

product datasheet

GXPZ Series

Parallel Zoom
Microscopes with
Ergonomic Head Option



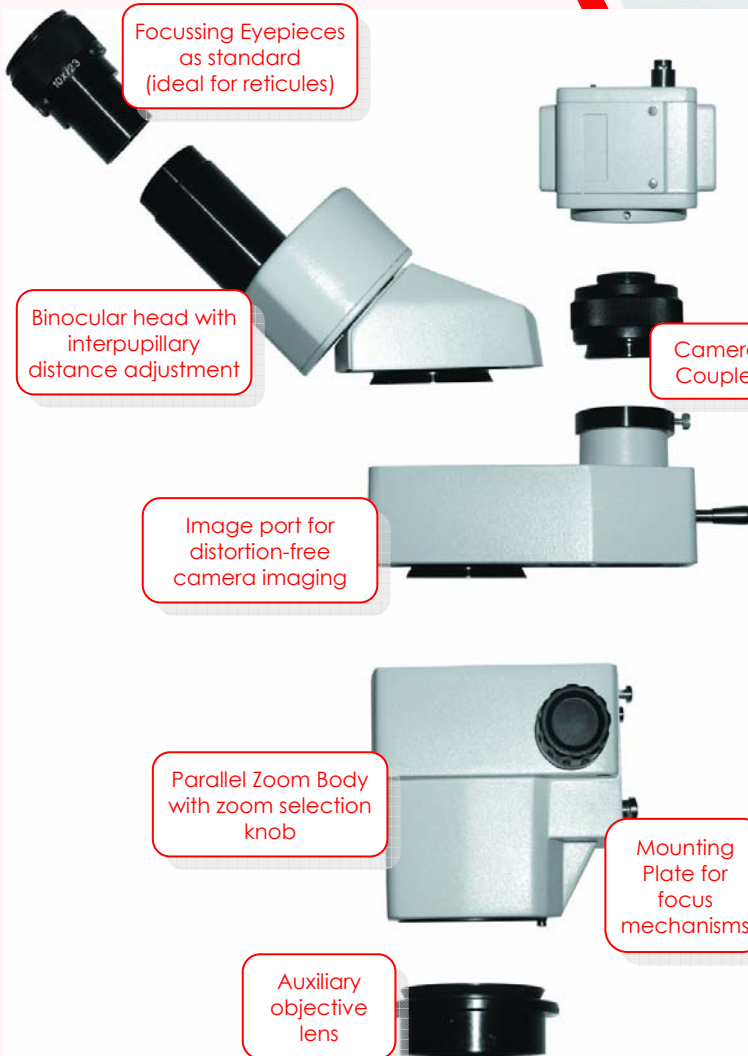
GXPZ2003T with camera, track stand & fibre optic ring illuminator



GXPZT3000 on boom stand with fibre optic ring illuminator



GXPZ2000 on track stand



GXPZ Parallel Zoom Ergonomic Microscopy

ADVANTAGES

The GXPZ series of microscopes employ the very latest parallel optical path design which provides considerable advantages for the user including comfortable viewing over long periods, distortion-free imaging and excellent quality captured images.

MODULAR

The GXPZ microscope system is fully modular allowing you to purchase exactly what you need for your task with full upgrade paths for the future and interchangeability of parts if multiple microscopes are used at the same location.

ERGONOMIC

With the tiltable head version (GXPZ102201) the microscope can be adjusted perfectly for each viewer. This hugely reduces strain and discomfort during prolonged use.

QUALITY

The images presented to the user by this microscope are bright and crisp with perfect stereoscopic vision. The rack and pinions and zoom controls are smooth and simple to use, made from the finest components for long life. Even the eyepieces are supplied with focusable adjustment as standard guaranteeing an in focus image of any reticule placed inside them.

COMPREHENSIVE

The GXPZ series provide an enormous choice of magnifications, illumination systems and stands suitable for almost every purpose.



Specifications		GXPZ Series Parallel Optics Zoom Microscopes
Overall	Total optical magnification range (requires range of eyepieces and auxiliary objectives): 2.04X – 281.25X Total magnification range to 1/3" chip CCD camera and 15" monitor: 4.5X – 1428.75X	
Head	Eyepieces	Choice of: Focussing, Widefield, 10X, 12.5X, 16X, 20X, 25X, 30X
	Working Distance	22.5mm – 333mm dependant on auxiliary objective selected
	Type	GXPZ102101 Binocular 45 deg inclined Or GXPZ102201 Tilting ergonomic head 0-30 deg
	Image Port	GXPZ105101 Parallel Optics
	Image Port Camera Adaptors	Range of C-Mount and Nikon Coolpix Adaptors
Parallel Zoom Body	Zoom Knob	Graduated continuous zoom control knob with optional detents
	Zoom Range	6.8X – 45X with standard 10X WF eyepieces and no auxiliary objective
	Zoom Ratio	1:6.6
Auxilliary Objectives	Screw onto Zoom Body	0.3X, 0.5X, 0.75X, 1X, 1.5X, 2X, 2.5X
Stands	Choice of Post, Articulated or Track stands	GXMA231101 Standard Boom Stand (requires GXPZ-E-arm) GXMA232101 Dual Arm Boom Stand (requires GXPZ-E-arm) GXMA242101 Flexible Articulated Arm (with clamp for table – no base) (requires GXPZ-E-arm) GXMA255101 Heavy Base for Flexible Articulated Arm (provides base for flexible articulated arm) GXMA211102/TI Post Stand, Base and Top Illuminated GXMA211102 Post Stand, no illumination GXMA221102/TI Track Stand, Base and Top Illuminated GXMA221102 Track Stand, no illumination
Stand Power	Only for illuminated post or Track Stands	Mains 110/220V input for DC halogen Lamps
Stage option	GXMA261101 Manual Stage for use with Post or Track stand (LxWxH mm) 180x155x27 Glass insert 116x96mm specimen clips	
External Illumination	LED	GXMAPZ343101 Ring Light, 54mm ID, 104mm OD, H 26mm, 78 LEDs, Adjustable Intensity Controller GXMAPZ344101 Base Light, (LxWxH mm) 86x52x16, Adjustable Intensity Controller
	Fibre Optic	L1 Lamphouse with choice of fibre optics: L2, single goose neck, L3 dual goose necks, L4 ring light, R series ring lights
	Fluorescent	RFL-8 Fluorescent lamp ring light



GXPZ102201 Tiltable Ergonomic Head



GXPZ Focussing Eyepieces WF10X



GXPZ Camera Adaptors



GXPZ Auxilliary Objectives



GXMA231101 Standard Boom Stand



GXMA232101 Dual Arm Boom Stand



GXMA221102 Track Stand



Illuminated Base and LED ring



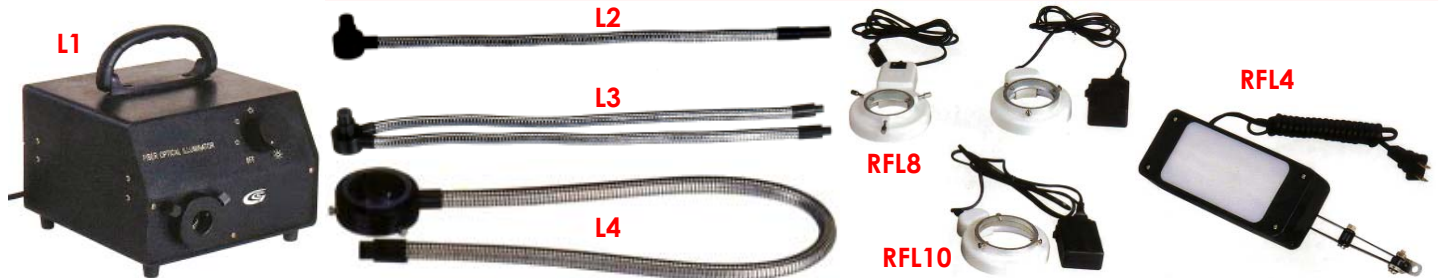
GXMA242101 Flexible Articulated Arm Stand

GXPZ Performance Table

Specification of auxiliary objectives and eyepieces – GXPZ

Eyepiece \ Objective:		0.3X obj	0.5X obj	0.75X obj	1.5X obj	2X obj	2.5X obj
10x	Total magnification	2x-13.5x	3.4x-22.5x	5.1x-33.8x	10.2x-67.5x	13.9x-90x	17x-112.5x
	Diameter of visual field(mm)	112-75.17	67.65x-10.23x	45-6.8	22.5-3.41	16.92-2.56	13.53-2.05
12.5x	Total magnification	2.55x-16.88x	4.25x-28.13x	7.9x-42.2x	12.75x-84.38x	17x-112.5x	21.25x-140.63x
	Diameter of visual field(mm)	91.67-13.85	55-8.31	36.67-5.54	18.3-2.77	13.75-2.08	11-1.66
16x	Total magnification	3.2x-21.6x	5.44x-36x	8.2x-54x	16.32x-108x	21.76x-144x	27.2x-180x
	Diameter of visual field(mm)	77.94-11.78	46.76-7.07	31.18-4.72	15.59-2.36	11.69-1.77	9.35-1.44
20x	Total magnification	4.08x-27x	6.8x-45x	10.2x-67.5x	20.4x-135x	27.2x-180x	34x-225x
	Diameter of visual field(mm)	61.27-9.26	36.67-5.56	23.53-3.56	12.25-1.85	9.19-1.39	7.35-1.11
25X	Total magnification	5.1x-33.75x	8.5x-56.25x	12.75x-84.4x	25.5x-168.75x	34x-225x	42.5x-281.25x
	Diameter of visual field(mm)	44.12-6.67	26.47-4.0	17.65-2.67	8.28-1.33	6.62-1.0	5.29-0.8
Working Distance(mm)		328.93	197.19	148	46.69	34.04	22.53

Additional Illumination Options - L Series (see separate datasheet)



Additional Illumination Options - LED Series (see separate datasheet)



GXMA261101
Mechanical Stage



E-Arm connector for
GXPZ Stand



Coarse/fine focus
coaxial knobs

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This table shows just a few sample configurations, for a full list of the options available please contact GX Microscopes direct or your local dealer.

GXPZ Microscope Example Configurations					
GXM Part No.	Head & Body type	Stand	Mag range	Illumination	Options
GXPZ3004	45deg Inclined Binocular Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Boom Stand with E-arm	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives
GXPZT3004	0-30deg Ergo-Tiltable Binocular Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Boom Stand with E-arm	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives
GXPZ3004T	45deg Inclined Binocular Image port and 0.5X coupler Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Boom Stand with E-arm	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives • Camera
GXPZT3004T	0-30deg Ergo-Tiltable Binocular Image port and 0.5X coupler Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Boom Stand with E-arm	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives • Camera
GXPZ5104	45deg Inclined Binocular Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Flexible Arm with E-arm	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives
GXPZT5104	0-30deg Ergo-Tiltable Binocular Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Flexible Arm with E-arm	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives
GXPZ5104T	45deg Inclined Binocular Image port and 0.5X coupler Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Flexible Arm with E-arm	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives • Camera
GXPZT5104T	0-30deg Ergo-Tiltable Binocular Image port and 0.5X coupler Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Flexible Arm with E-arm	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives • Camera
GXPZ2004	45deg Inclined Binocular Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Track Stand	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives • XY stage • Coarse/fine focus knob • Base illumination
GXPZT2004	0-30deg Ergo-Tiltable Binocular Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Track Stand	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives • XY stage • Coarse/fine focus knob • Base illumination
GXPZ2004T	45deg Inclined Binocular Image port and 0.5X coupler Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Track Stand	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives • XY stage • Camera • Coarse/fine focus knob • Base illumination
GXPZT2004T	0-30deg Ergo-Tiltable Binocular Image port and 0.5X coupler Zoom body 0.68x-4.5x 1X Plan achromatic Objective 10X WF Adjustable Eyepieces	Track Stand	6.8x-45x	LED Ring Light Adjustable Intensity	<ul style="list-style-type: none"> • Extra eyepieces • Auxiliary objectives • XY stage • Camera • Coarse/fine focus knob • Base illumination



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