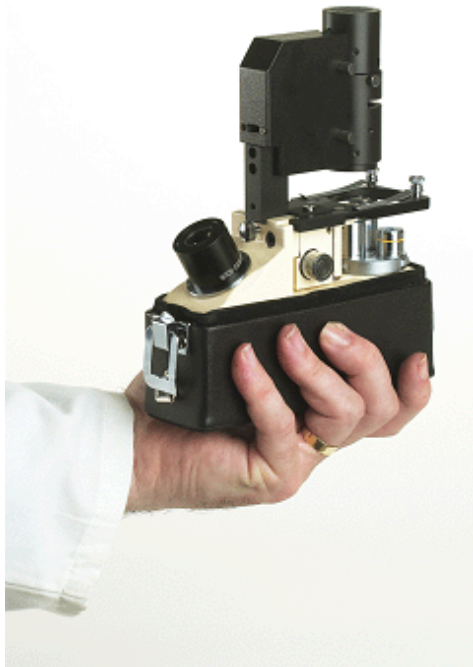


## Pyser-SGI MICROSCOPES

TECHNICAL SPECIFICATION



**Evolution Portable Brightfield Microscope**

Pyser specialises in providing high quality microscope products at competitive prices to a wide range of educational, research and industrial applications.

The XEC series is designed for use in the educational market, from junior schools to higher education, and ranges from simple monoscopes through to full-size multiple objective models.

The XES series provide stereo microscopy at a very competitive price. Interchangeable or zoom lenses, together with high quality optics ensure good image quality throughout the range. There is even a modular zoom system to suit those specific requirements.

The XPC series are professional microscopes for the more discerning user. They feature reflected and transmitted light versions, phase contrast, Koehler illumination and a wide range of advanced features.

The Pyser Microcam can be fitted to the above microscopes to provide digital imaging, analysis and archiving.

**Principal : Pyser-SGI Limited**

<http://www.pyser-sgi.com>



**Distributed by:**

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## **CONTENT**

| <b>SN</b> | <b>DESCRIPTION</b>                           | <b>PAGE</b> |
|-----------|--|-------------|
| 1         | Evolution Microscope                         | 3-4         |
| 2         | Compound Microscope                          | 5-10        |
| 3         | Stereo Microscope                            | 11-21       |
| 4         | Professional Inverted Microscope, Trinocular | 22          |



## Product Information Evolution Microscopes



**Ordering Code: 710-500**

### **Evolution Portable Brightfield Microscope**

#### **Key Features**

Evolution® Portable brightfield microscope with 4x, 10x and 40x objectives, 10x eyepiece, brightfield LED illuminator, white frosted filter and carry case.

#### **Description**

Body - Die cast aluminium in padded protective case.

Head - Monocular.

Eyepiece - Widefield W10x

Objectives - Triple nosepiece with long working distance 4x, 10x, 40x objectives.

Condenser - Illuminator has built-in condenser.

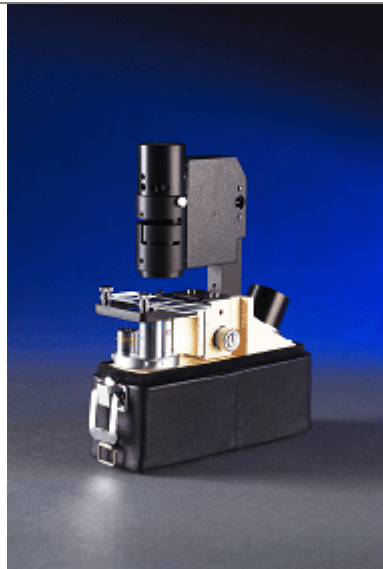
Stage - Open base stage with stage clips.

Focussing - Single precision focussing adjustment.

Illumination - LED battery powered illuminator (2xAA batteries). 3V universal power supply included.

Dimensions - Including cover: 170mm x 210mm x 50mm

Weight - Including cover: 1.46Kg



**Ordering Code: 700-501**

### **Evolution Phase Contrast Microscope**

#### **Key Features**

Evolution® Phase contrast microscope with 4x, P10x and P20x objectives, 10x eyepiece, phase illuminator, green filter, white frosted filter and carry case

#### **Description**

Body - Die cast aluminium in padded protective case.

Head - Monocular.

Eyepiece - Widefield W10x

Objectives - Triple nosepiece with long working distance, 4x, P10x and P20x.

Condenser - Illuminator has built-in condenser.

Stage - Open base stage with stage clips.

Focussing - Single precision focussing adjustment.

Illumination - LED battery powered illuminator (2xAA batteries). 3V universal power supply included.

Dimensions - Including cover: 170mm x 210mm x 50mm

Weight - Including cover: 1.46Kg



|  |   |
|--|---|
|  <p><b>Ordering Code: 750-005</b></p> | <p><b><u>Accessory - Mechanical X-Y Stage</u></b></p>     |
| <p>W15x eyepiece</p>   | <p><b><u>Accessory</u></b><br/>Ordering Code: 751-225</p> |
| <p>W20x eyepiece</p>   | <p>Ordering Code: 751-226</p>                             |
| <p>White frosted filter</p>  | <p>Ordering Code: 760-310</p>                             |
| <p>Blue frosted filter</p>   | <p>Ordering Code: 760-311</p>                             |
| <p>Blue Clear Filter</p>   | <p>Ordering Code: 760-312</p>                             |
| <p>Green Clear Filter</p>  | <p>Ordering Code: 760-313</p>                             |
| <p>Polarising Attachment (for Brightfield version)</p>   | <p>Ordering Code: 760-315</p>                             |



## Product Information Compound Microscopes



**Ordering Code: XE-M2**

### Compound Microscope

#### Key Features

- Metal die cast body
- 45° inclined 360° rotatable monocular head
- Single 2x objective
- Rack and pinion focusing

#### Description

The XE-M2 is an easy to use monocular microscope for use in schools for use in schools for the study of plants, insects and geology samples and for use by field technicians involved in the study or irradiation of pests. Its small size, good optical quality and the ability to view without the need of additional illumination are a benefit to all users.



**Ordering Code: XEC-M3D**

### Compound Microscope

#### Key Features

- Die cast aluminium body
- W10x eyepiece with pointer
- Triple nose piece with 3 objectives
- Separate coarse and fine focusing

#### Description

The XEC-M3D is a three -quarter-size microscope for use by age groups up to and including 16 and can also be used by field technicians where a simple compound microscope is needed. Its small size, good optical quality and the ability to view without need of additional illumination are a benefit to all users.

ALSO AVAILABLE IN THIS RANGE OF BASIC MICROSCOPES

XEC-M3DC compound student microscope with mirror illumination and single control focusing.



**Ordering Code: XEC-M10D**

## **Compound Microscope**

### **Key Features**

- Die cast aluminium body
- 45° inclined 360° rotatable monocular head
- Disc diaphragm
- W10x eyepiece with pointer
- Triple nosepiece with 3 objectives

### **Description**

These instruments are full sized student microscopes designed for use in ordinary and advanced level biology studies (age 16-18). The high quality optics used also make the instruments suitable for basic microscopy activities in laboratories. All models feature DIN standard optics, separate coarse and fine rack and pinion focusing, large stage with spring clips and a 45° inclined 360° rotatable monocular head. There are four models in the range to suit your exact needs.



**Ordering Code: XEC-M10A**

## **Compound Microscope**

### **Key Features**

- Die cast aluminium body
- 45° inclined 360° rotatable monocular head
- Abbe condenser & diaphragm
- W10x eyepiece with pointer
- Triple nosepiece with 3 objectives

### **Description**

Compound student microscope with halogen illumination, 1.25 NA Abbe condenser and adjustable diaphragm. 4x, 10x and 40xR DIN achromatic objectives and W10x eyepiece with pointer. 45° inclined monocular head, rotatable through 360°.



**Ordering Code:**

**XEC-M10AA**

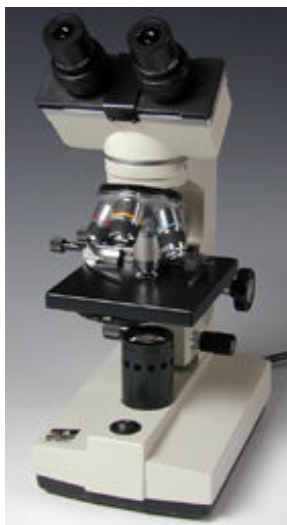
### **Compound Microscope**

#### **Key Features**

- Die cast aluminium body
- 45° inclined 360° rotatable monocular head
- Abbe condenser & diaphragm
- W10x eyepiece with pointer
- Quadruple nosepiece with 3 objectives (1 spare port)

#### **Description**

Compound student microscope with halogen illumination, 1.25 NA Abbe condenser and adjustable diaphragm. Quadruple nosepiece with 4x, 10x and 40xR DIN achromatic objectives (1 spare port for 100x oil objective part number 750-100 not supplied) and W10x eyepiece with pointer. 45° inclined monocular head, rotatable through 360



**Ordering Code:**

**XEC-B10AQ**

### **Compound Microscope**

#### **Key Features**

- Die cast aluminium body
- 45° inclined 360° rotatable binocular head
- Abbe condenser & diaphragm
- Mechanical stage
- W10x eyepiece with pointer
- Quadruple nosepiece with 3 objectives (1 spare port)

#### **Description**

The XEC-B10AQ has the same features as the XEC-M10AQ but is fitted with a binocular viewing head and built in mechanical X-Y stage, with 30mm x 60mm movement.



**Ordering Code: XEC-T20**

### **Compound Microscope**

#### **Key Features**

- Die cast aluminium body
- 30° inclined binocular head with adjustable interpupillary distance from 55mm to 75mm. 360° rotatable.
- Paired W10x eyepiece with  $\pm 5$  diopter
- Quadruple nosepiece with objectives

#### **Description**

The XEC-20 series laboratory microscopes are full sized instruments with modern design and providing high levels of optical performance. They are ideal for use in schools, colleges and professional laboratories in a wide range of biological, medical, bacteriological and agricultural applications.



**Ordering Code: XPC-T25**

### **Compound Microscope**

#### **Key Features**

- Aluminum die cast with reversed quintuple nosepiece
- Paired W10x with  $\pm 5$  diopter adjustment on one eyepiece with eyecups
- DIN plan objectives x4(0.10), x10(0.25), x40R(0.65), x100RD(oil)

#### **Description**

The XP series is a range of professional microscopes for use in both general and research laboratories. All of the models are fitted with a Siedentopf 30° inclined binocular head, reversed quintuple nosepiece, variable Koehler halogen illumination and large travel mechanical stage. The Plan objectives provide a wide clear and flat image viewed through 10x/18 widefield eyepieces. All models are upgradeable to darkfield and phase contrast microscopy and a trinocular version is available for photo microscopy.



**Ordering Code: XPC-25RT**

## **Compound Microscope**

### **Key Features**

- Aluminum die cast body with reversed quintuple nosepiece
- Paired W10x eyepiece with  $\pm 5$  diopter adjustment on one eyepiece with eyecups
- A Siedentopf 30 degree inclined trinocular head
- Reversed quintuple nosepiece

### **Description**

The XPC-25RT microscope is suitable for use in applications or laboratories that require the use of both reflected and transmitted light microscopy. Based on the standard XPC-T25 the instrument features a Siedentopf 30 inclined trinocular head, reversed quintuple nosepiece, variable Koehler halogen illumination and large travel mechanical stage. The Plan objectives provide a wide clear and flat image viewd through 10x/18 widefield eyepieces.

All models are upgradable to darkfield and phase contrast microscopy.



**Ordering Code: XEC-M3DC**

## **Compound Microscope**

### **Key Features**

- Die cast aluminium body
- W10x eyepiece with pointer
- Triple nose piece with 3 objectives
- Single control focusing

### **Description**

The XEC-M3D is a three-quarter-size microscope for use by age groups up to and including 16 and can also be used by field technicians where a simple compound microscope is needed. Its small size, good optical quality and the ability to view without need of additional illumination are a benefit to all users. The XEC-M3DC has a simple single focussing control.



**Ordering Code: XEC-B20**

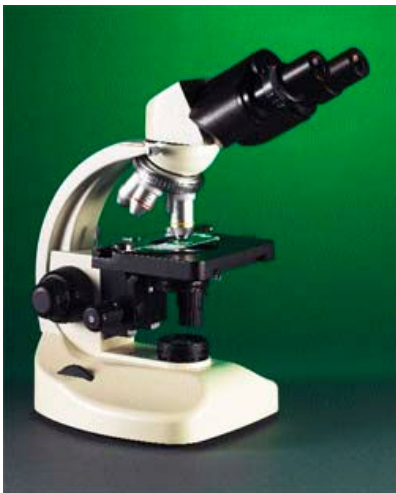
## **Compound Microscope**

### **Key Features**

- Die cast aluminium body
- 30° inclined binocular head with adjustable interpupillary distance from 55mm to 75mm. 360° rotatable.
- Paired W10x eyepiece with  $\pm 5$  diopter
- Quadruple nosepiece with 4 objectives

### **Description**

The XEC-20 series laboratory microscopes are full sized instruments with modern design and providing high levels of optical performance. They are ideal for use in schools, colleges and professional laboratories in a wide range of biological, medical, bacteriological and agricultural applications. Various models are available to suit all budgets and applications. The instruments are upgradeable to allow darkfield and phase contrast microscopy



**Ordering Code: XEC-14**

## **Compound Microscope**

### **Key Features**

- Diecast Aluminium body
- 30° inclined 360° eyepiece tube(s). Choice of 3 types; monocular, binocular or monocular with photo-tube.
- Binocular version has adjustable interpupillary distance from 55mm to 75mm.
- Photo tube version has C-mount for camera.
- W10x eyepiece with  $\pm 5$  diopter adjustment (bino versions)
- Quadruple nosepiece, reverse facing with 4x/0.1, 10x/0.25, 40x/0.65 and 100x oil/1.25 Es plan achromatic objectives.

### **Description**

The XEC-14 series of microscopes are professional quality instruments at a very competitive price. The high precision optics combined with robust precision mechanics give superb image quality. Reversed nosepiece and large area stage give easier access to manipulate specimens, and low level stage controls make for comfortable long-term use. Available with monocular, binocular or monocular with photo-tube heads, and with phase contrast or polarisation.



**Product Information Stereo Microscopes**



**Ordering Code: XES-50-P1**

**Stereo Microscope**

**Key Features**

- Die cast aluminium body
- Upright binocular head with adjustable interpupillary distance from 55mm to 75mm
- Paired W10x eyepiece with  $\pm 5$  diopter adjustment on one eyepiece

**Description**

The XES-50P is a simple stereo microscope for use in schools, field study and industry for routine inspection of components. Two versions of this instrument are available with a choice of total magnification of 10x (XES-50-P1) or 20x (XES-50-P2). Although small, this instrument has excellent optical quality providing ease of use and clarity of images.

|              |   |
|--------------|---|
| Body:        | Die cast aluminium  |
| Head:        | Upright binocular head with adjustable interpupillary distance from 55mm to 75mm            |
| Eyepiece:    | Paired W10x with $\pm 5$ diopter adjustment on one eyepiece                                 |
| Objective:   | Single slide-in 1x  |
| Stage/Stand: | 110mm x 120mm plain stand with removable White/black plate 94.5mm diameter and spring clips |
| Focusing:    | Rack and pinion   |



**Ordering Code: XES-50-P2**

## **Stereo Microscope**

### **Key Features**

- Die cast aluminium body
- Upright binocular head with adjustable interpupillary distance from 55mm to 75mm
- Paired W10x eyepiece with  $\pm 5$  diopter adjustment on one eyepiece

### **Description**

The XES-50P is a simple stereo microscope for use in schools, field study and industry for routine inspection of components. Two versions of this instrument are available with a choice of total magnification of 10x (XES-50-P1) or 20x (XES-50-P2). Although small, this instrument has excellent optical quality providing ease of use and clarity of images

|              |   |
|--------------|---|
| Body:        | Die cast aluminium  |
| Head:        | Upright binocular head with adjustable interpupillary distance from 55mm to 75mm            |
| Eyepiece:    | Paired W10x with $\pm 5$ diopter adjustment on one eyepiece                                 |
| Objective:   | Single slide-in 2x  |
| Stage/Stand: | 110mm x 120mm plain stand with removable White/black plate 94.5mm diameter and spring clips |
| Focusing:    | Rack and pinion   |



**Ordering Code: XES-60-2L**

## **Stereo Microscope**

### **Key Features**

- Die cast aluminium body
- 45° binocular head with adjustable interpupillary distance from 55mm to 75mm
- Paired W10x eyepiece with  $\pm 5$  diopter adjustment on one eyepiece

### **Description**

This instrument has an inclined binocular head and is designed for all areas of education and also industry where component inspection is a requirement. Each version is fitted with independent incident and transmitted lighting. Two versions of this instrument are available with a choice of total magnification of 10x (XES-60B-2L1) or 20x (XES-60B-2L2).

|               |  |
|---------------|--|
| Body:         | Die cast aluminium   |
| Head:         | 45° binocular head with adjustable interpupillary distance from 55mm to 75mm   |
| Eyepiece:     | Paired W10x with $\pm 5$ diopter adjustment on one eyepiece  |
| Objective:    | Single slide-in 1x   |
| Stage/Stand:  | illuminated with removable and interchangeable white/black and frosted glass plate 94.5mm diameter with spring clips |
| Focusing:     | Rack and pinion  |
| Illumination: | Incident and transmitted separately switchable   |



**Ordering Code:**

**XES-60-2L2**

## **Stereo Microscope**

### **Key Features**

- Die cast aluminium body
- 45° binocular head with adjustable interpupillary distance from 55mm to 75mm
- Paired W10x eyepiece with  $\pm 5$  diopter adjustment on one eyepiece

### **Description**

This instrument has an inclined binocular head and is designed for all areas of education and also industry where component inspection is a requirement. Each version is fitted with independent incident and transmitted lighting. Two versions of this instrument are available with a choice of total magnification of 10x (XES-60B-2L1) or 20x (XES-60B-2L2).

|               |  |
|---------------|--|
| Body:         | Die cast aluminium   |
| Head:         | 45° binocular head with adjustable interpupillary distance from 55mm to 75mm   |
| Eyepiece      | Paired W10x with $\pm 5$ diopter adjustment on one eyepiece  |
| Objective:    | Single slide-in 2x   |
| Stage/Stand:  | Illuminated with removable and interchangeable white/black and frosted glass plate 94.5mm diameter with spring clips |
| Focusing:     | Rack and pinion  |
| Illumination: | Incident and transmitted separately switchable   |



**Ordering Code:**

**XES-70B-2L**

## **Stereo Microscope**

### **Key Features**

- Die cast aluminium body
- 45° binocular head with adjustable interpupillary distance from 55mm to 75mm
- Paired W10x eyepiece with  $\pm 5$  diopter adjustment on one eyepiece

### **Description**

This stereo microscope is a more advanced instrument with rotatable turret objective sets providing 2-step magnification of 10x and 30x or 40x. These instruments have uses in both education and industry. High optical quality allows for extended use in inspection environments.

|               |   |
|---------------|---|
| Body:         | Die cast aluminium  |
| Head:         | 45° binocular head with adjustable interpupillary distance from 55mm to 75mm                        |
| Eyepiece:     | Paired W10x with $\pm 5$ diopter adjustment on one eyepiece   |
| Objective:    | Turret with 1x and 3x objective   |
| Stage/Stand:  | Removable and interchangeable white/black and frosted glass plate 94.5mm diameter with spring clips |
| Focusing:     | Rack and pinion   |
| Illumination: | Incident and transmitted separately switchable  |



**Ordering Code:**

**XES-70C-2L**

## **Stereo Microscope**

### **Key Features**

- Die cast aluminium body
- 45° binocular head with adjustable interpupillary distance from 55mm to 75mm
- Paired W10x eyepiece with  $\pm 5$  diopter adjustment on one eyepiece

### **Description**

This stereo microscope is a more advanced instrument with rotatable turret objective sets providing 2-step magnification of 10x and 30x or 40x. These instruments have uses in both education and industry. High optical quality allows for extended use in inspection environments.

|               |   |
|---------------|---|
|               | Die cast aluminium  |
| Head:         | 45° binocular head with adjustable interpupillary distance from 55mm to 75mm                        |
| Eyepiece:     | Paired W10x with $\pm 5$ diopter adjustment on one eyepiece   |
| Objective:    | Turret with 2x and 4x objective   |
| Stage/Stand   | Removable and interchangeable white/black and frosted glass plate 94.5mm diameter with spring clips |
| Focusing      | Rack and pinion   |
| Illumination: | Incident and transmitted separately switchable  |



**Ordering Code:**

**XES-40-HB**

## **Stereo Microscope**

### **Key Features**

- 45° binocular head with adjustable interpupillary distance from 55mm to 75mm
- Paired W10x eyepiec with±5 diopter adjustment on one eyepiece with eye-cups

### **Description**

The XES-40-HB long arm stereo microscope with long working distance objectives mounted on a long arm and heavy base stand. The built in electrical illumination enables items to be viewed when placed on a work bench top. The eyepieces are inclined at 45° for ease of operator use.

|              |   |
|--------------|---|
| Head:        | 45° binocular head with adjustable interpupillary distance from 55mm to 75mm            |
| Eyepiece:    | Paired W10x with±5 diopter adjustment on one eyepiece with eye-cups                     |
| Objective:   | Choice of slide-in interchangeable 1.0x, 2.0x and 3.5x long working distance objectives |
| Stage/Stand  | Heavy metal base with transformer switching for illumination                            |
| Focusing:    | Rack and pinion   |
| Illumination | Incident halogen illumination with condenser  |



**Ordering Code:**

**XES-80B-2L**

## **Stereo Microscope**

### **Key Features**

- Die cast aluminium body
- 45° inclined binocular head
- Paired WF 10x/20 with  $\pm 5$  diopter adjustment
- Zoom optics

### **Description**

The XES-80 binocular stereo microscope has a 1:4 zoom range and flexibility to suit all types of application. All models feature adjustable independent transmitted and incident lighting.

|               |  |
|---------------|--|
| Body:         | Die cast aluminium                                       |
| Head:         | 45° inclined binocular head                              |
| Eyepiece:     | Paired WF 10x/20 with $\pm 5$ diopter adjustment         |
| Objective:    | Zoom range 1:4 (7.5x, 35x, 70x with optional objectives) |
| Stage/Stand   | 110mm x 120mm with sprung clips                          |
| Focusing:     | Rack and pinion  |
| Illumination: | Halogen incident and transmitted lighting                |



**Ordering Code:**

**XES-80T-2L**

## **Stereo Microscope**

### **Key Features**

- Die cast aluminium body
- 45° inclined binocular head
- Paired WF 10x/20 with  $\pm 5$  diopter adjustment
- Zoom optics

### **Description**

The XES-80 trinocular stereo microscope has a 1:4 zoom range and flexibility to suit all types of application. All models feature adjustable independent transmitted and incident lighting.

|               |  |
|---------------|--|
| Body:         | Die cast aluminium                                       |
| Head:         | Trinocular head and C-Mount CCTV adaptor                 |
| Eyepiece:     | Paired WF 10x/20 with $\pm 5$ diopter adjustment         |
| Objective:    | Zoom range 1:4 (7.5x, 35x, 70x with optional objectives) |
| Stage/Stand:  | 110mm x 120mm with sprung clips                          |
| Focusing:     | Rack and pinion  |
| Illumination: | Halogen incident and transmitted lighting                |



**Ordering Code:**

**XES-81B-2L**

### **Stereo Microscope**

#### **Key Features**

- 9:1 zoom ratio
- Greenough design
- 10x eyepieces and 1x objective
- Magnification range from 6.5x to 60x
- Alternative eyepieces and objective lenses are available to give magnifications from 3.3x to a massive 240x

#### **Description**

The XES-81 is a professional stereo zoom microscope with a large 9:1 zoom ratio. The Greenough design has two identical objectives arranged with their optical axes at a small angle, generating two separate images. Observed through separate eyepieces, they are combined to form a 3-dimensional image with true colour and superb optical quality.

The XES-81 features a large 9:1 zoom ratio, extending from 0.65x to 6x magnification. With the 10x eyepieces and 1x objective this gives a magnification range from 6.5x to 60x. Alternative eyepieces and objective lenses are available to give magnifications from 3.3x to a massive 240x.



**Ordering Code:**

**XES-81B-P**

### **Stereo Microscope**

#### **Key Features**

- 9:1 zoom ratio
- Greenough design
- 10x eyepieces and 1x objective
- Magnification range from 6.5x to 60x
- Alternative eyepieces and objective lenses are available to give magnifications from 3.3x to a massive 240x

#### **Description**

The XES-81 is a professional stereo zoom microscope. The Greenough design has two identical objectives arranged with their optical axes at a small angle, generating two separate images. Observed through separate eyepieces, they are combined to form a 3-dimensional image with true colour and superb optical quality.

The XES-81 features a large 9:1 zoom ratio, extending from 0.65x to 6x magnification. With the 10x eyepieces and 1x objective this gives a magnification range from 6.5x to 60x. Alternative eyepieces and objective lenses are available to give magnifications from 3.3x to a massive 240x



**Ordering Code: XES-81B-L**

## **Stereo Microscope**

### **Key Features**

- 9:1 zoom ratio
- Greenough design
- 10x eyepieces and 1x objective
- Magnification range from 6.5x to 60x
- Alternative eyepieces and objective lenses are available to give magnifications from 3.3x to a massive 240x

### **Description**

The XES-81 is a professional stereo zoom microscope. The Greenough design has two identical objectives arranged with their optical axes at a small angle, generating two separate images. Observed through separate eyepieces, they are combined to form a 3-dimensional image with true colour and superb optical quality.

The XES-81 features a large 9:1 zoom ratio, extending from 0.65x to 6x magnification. With the 10x eyepieces and 1x objective this gives a magnification range from 6.5x to 60x. Alternative eyepieces and objective lenses are available to give magnifications from 3.3x to a massive 240x.



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## Product Information Professional Inverted Microscopes, Trino



**Ordering Code: XPC-T30I**

### Stereo Microscope

#### Key Features

- Full-sized instrument
- Modern design
- High levels of optical performance
- Ideal for use in colleges, universities and professional laboratories
- Easily upgradeable for phase contrast and fluorescence microscopy

#### Description

The XPC-T30I Professional inverted microscope is a full-sized instrument with a modern design, providing high levels of optical performance. It is ideal for identifying and analysing biological substances including laboratory cultures and is ideal for use in colleges, universities and professional laboratories. The microscope is easily upgradeable for phase contrast and fluorescence microscopy and can be supplied with a variety of cameras and imaging accessories; thus extending its scope of function. The benefits of the XPC-T30I include its operational simplicity, easy, fatigue-free observation over extended periods and full application flexibility.

## For More Information

For more information on our products and services, kindly send an email to [sales@pinnacletech.biz](mailto:sales@pinnacletech.biz)  
Tel: +(65) 6364 0626 Fax: +(65) 6894 9646