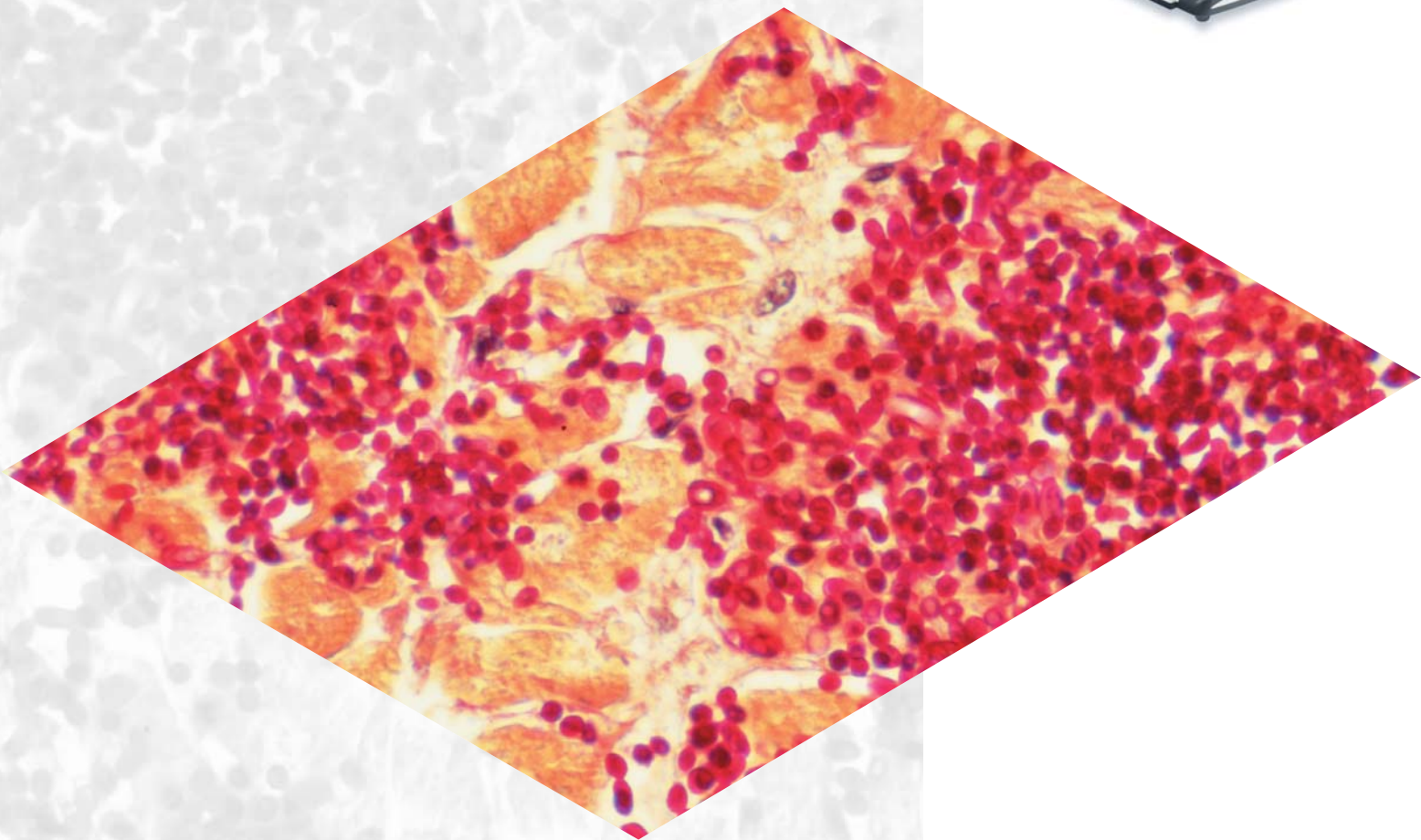


PriorLux™

PRIOR
Scientific

**Infinity Corrected
Laboratory Microscope**



PriorLux™

Laboratory Microscope

The PriorLux Microscope offers excellent image clarity with the advantages of infinity corrected optics for transmitted light applications. High quality infinity corrected objectives provide sharp, crisp images while Köhler illumination offers an image resolution usually found on more expensive microscopes. A modern design ensures a comfortable and ergonomic viewing position with all controls easily to hand, yet robust enough to withstand daily use in a busy laboratory.

Viewing Heads

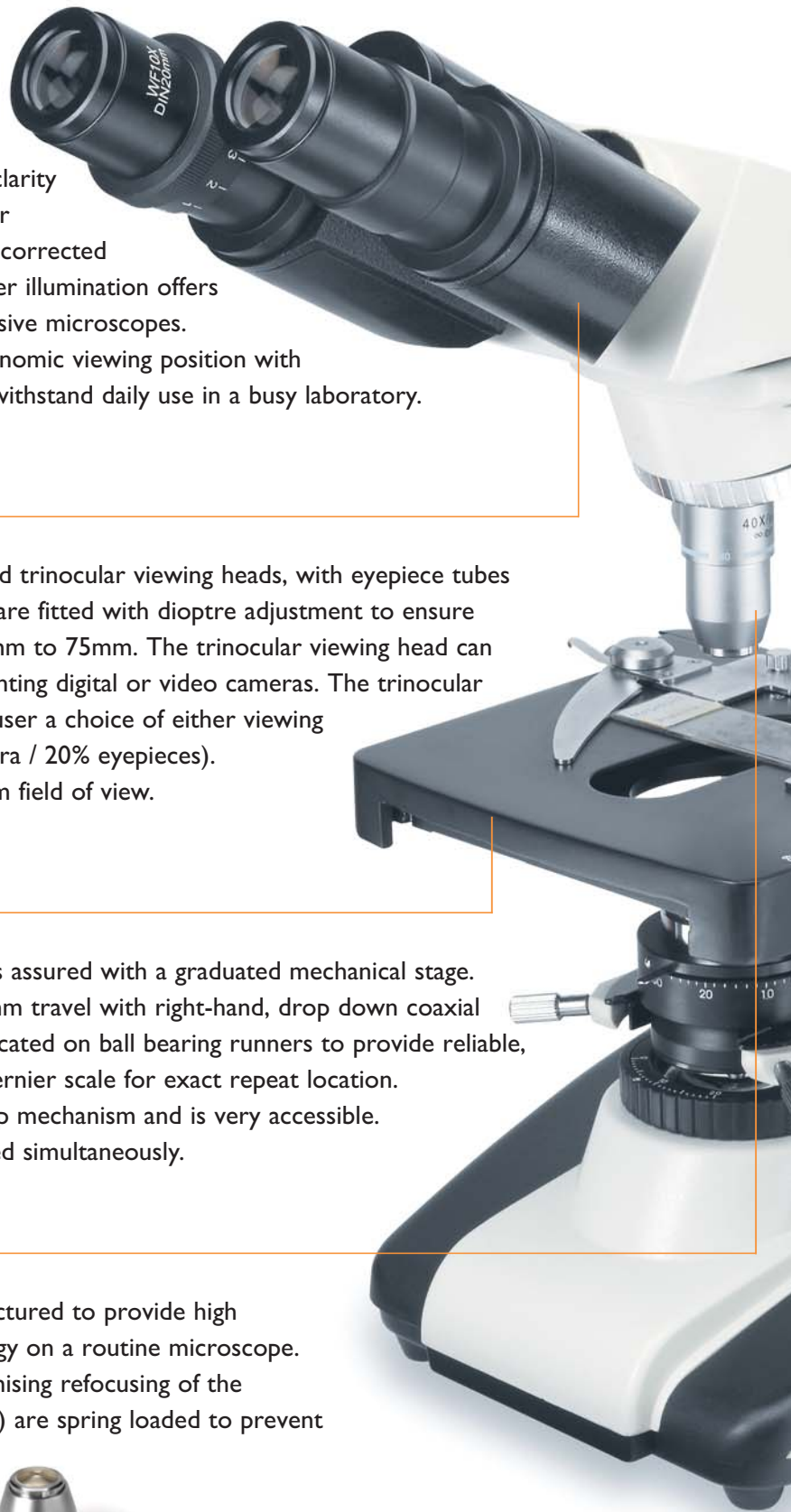
PriorLux is available with a choice of binocular and trinocular viewing heads, with eyepiece tubes set at 30° for maximum comfort. Eyepiece tubes are fitted with dioptre adjustment to ensure parfocality at any interpupillary distance from 55mm to 75mm. The trinocular viewing head can be fitted with a video 'C' mount adapter for mounting digital or video cameras. The trinocular head has a sliding prism mechanism to allow the user a choice of either viewing through the eyepieces or split viewing (80% camera / 20% eyepieces). Standard eyepieces are 10x widefield with a 20mm field of view.

Graduated Mechanical Stage

Smooth and precise movement of the specimen is assured with a graduated mechanical stage. The stage provides a travel range of 75mm x 55mm travel with right-hand, drop down coaxial controls. The large stage (185mm x 145mm) is located on ball bearing runners to provide reliable, smooth and precise movement. Each axis has a vernier scale for exact repeat location. The slide is held in place by a sprung loaded clamp mechanism and is very accessible. Two standard 3" x 1" slides can be accommodated simultaneously.

Quality Optics

Infinity corrected optics are designed and manufactured to provide high quality images, offering advanced optical technology on a routine microscope. The objectives are parfocal and parcentred, minimising refocusing of the image. The majority of objectives (20x and higher) are spring loaded to prevent specimen damage. A focusing Abbe condenser (N.A. 1.25) with filter tray provides Köhler illumination.





Quadruple Reversed Nosepiece

The PriorLux inward-facing nosepiece is mounted on a precision ball bearing mechanism with positive détente stops to yield precise objective location. The reverse nosepiece gives a clear view and access to the specimen.

Precise Focusing Mechanism

The focusing mechanism has coaxial coarse and fine controls, plus tension adjustment on the coarse focus. The fine focus will increment throughout the coarse focusing range allowing precise and accurate focusing at any position. There is a focus stop to prevent collisions between objectives and specimens.

Köhler Illumination System

A pre-centred 12V 30W halogen illuminator is mounted in the base of the microscope and a light intensity control is easily reached on the side of the instrument. A focusing sub-stage (Abbe) condenser with field iris diaphragm provides flat, even illumination of the sample across the whole field of view. A swing out daylight filter gives comfortable “white” illumination.

Microscope Stand and Base

The PriorLux microscope is ergonomically designed for operator comfort. The microscope has a robust metal body which will withstand the rigors of daily use.

Range of Accessories

Phase Contrast objectives are available for the PriorLux, offering a quick and useful method for the examination of live micro organisms and cells. The Phase Contrast kit includes high quality, infinity corrected 10x, 20x, 40x and 100x objectives, centring telescope and filters. Dark ground illumination is also available using the dark ground condenser with the standard objectives.



Photomicrography



The trinocular head on the PriorLux microscope can utilise a standard C-mount adapter. This permits the addition of many different video and digital cameras for a range of applications including image analysis, archiving and documentation. For teaching applications, the addition of a video camera and monitor enable group viewing of specimens under the microscope.

PriorLux Model Maker

	Heads		10x WF Eyepiece	Achromatic Objectives				Planachromatic Objectives				Phase Contrast Kit
	Binocular	Trinocular		4x	10x	40x	100x	4x	10x	40x	100x	
PX012	•		•	•	•	•	•					
PX032	•		•					•	•	•	•	
PX013		•	•	•	•	•	•					
PX033		•	•					•	•	•	•	
PX042	•		•					•	•	•	•	•
PX043		•	•					•	•	•	•	•

PriorLux

Advanced Laboratory Microscope



CERTIFICATE NO: FM 61600
STANDARD: BS EN ISO 9001:2000



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Specifications subject to change without notice.

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