

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

UNITRON

Unitron ZSB Binocular Microscope head

The Unitron ZSB binocular microscope head is a dual-eyepiece optical component engineered for integration into Unitron microscope systems. It delivers enhanced viewing comfort and extended magnification capability across laboratory, research, and educational applications through a parfocal twin-zooming objective system paired with interchangeable eyepieces and auxiliary magnification lenses. Compatibility & Integration Designed as a replacement or upgrade head for existing Unitron microscope systems. Note: This model was discontinued in 2009; availability of replacement parts and accessories through Unitron should be verified with the manufacturer. Aumictech offers NIST-traceable calibration and repair for the Unitron ZSB. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Unitron ZSB is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.



MODEL

Unitron ZSB

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ZSB

LISTING

<https://aumictechlabs.com/products/zsb-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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magnification lenses. Technical Specifications Optical Design & Magnification Convergent objective optical system Parfocal twin-zooming objective system Objective magnification range: 0.7x to 4.5x Zoom ratio: 6.5:1 Total magnification range: 3.5x to 180x (dependent on eyepiece and auxiliary lens selection) Large, flat field of view with high resolution Eyepieces (Paired) HWF 10x - 22.5 mm field of view HWF 15x - 14.6 mm field of view HWF 20x - 10.5 mm field of view Auxiliary Lenses 0.5x magnification - 158 mm working distance 0.75x magnification - 100 mm working distance 1.5x magnification - 44 mm working distance 2.0x magnification - 30 mm working distance Adjustment Controls Interpupillary distance adjustment Diopter adjustment on eyepieces Key Features Binocular optical path for reduced operator fatigue during extended observation sessions Parfocal objective design maintains focus across the 0.7x to 4.5x magnification range without refocusing Modular auxiliary lens system permits working distance optimization for varied specimen types High-resolution flat-field optics minimize chromatic aberration and edge distortion Typical Applications Material science and metallographic specimen examination Biological and histological sample analysis Quality control and failure analysis in manufacturing environments Educational microscopy in academic laboratory settings Precision inspection requiring magnification flexibility and extended working distances Compatibility & Integration Designed as a replacement or upgrade head for existing Unitron microscope systems. Note: This model was discontinued in 2009; availability of replacement parts and accessories through Unitron should be verified with the manufacturer.

Features & description

From manufacturer datasheet

Technical Specifications

Convergent objective optical system Parfocal twin-zooming objective system Objective magnification range: 0.7x to 4.5x Zoom ratio: 6.5:1 Total magnification range: 3.5x to 180x (dependent on eyepiece and auxiliary lens selection) Large, flat field of view with high resolution Eyepieces (Paired) HWF 10x - 22.5 mm field of view HWF 15x - 14.6 mm field of view HWF 20x - 10.5 mm field of view Auxiliary Lenses 0.5x magnification - 158 mm working distance 0.75x magnification - 100 mm working distance 1.5x magnification - 44 mm working distance 2.0x magnification - 30 mm working distance Adjustment Controls Interpupillary distance adjustment Diopter adjustment on eyepieces

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Unitron ZSB — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Unitron ZSB. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Request Calibration → Request Repair Quote →

Unitron ZSB price

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Unitron ZSB calibration cost

NIST-traceable calibration for the Unitron ZSB is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

Material science and metallographic specimen examination Biological and histological sample analysis Quality control and failure analysis in manufacturing environments Educational microscopy in academic laboratory settings Precision inspection requiring magnification flexibility and extended working distances Compatibility & Integration Designed as a replacement or upgrade head for existing Unitron

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Unit notes

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Technical Specifications

Optical Design & Magnification

Convergent objective optical system

Parfocal twin-zooming objective system

Objective magnification range: 0.7x to 4.5x

Zoom ratio: 6.5:1

Total magnification range: 3.5x to 180x (dependent on eyepiece and auxiliary lens selection)

Large, flat field of view with high resolution

Eyepieces (Paired)

HWF 10x - 22.5 mm field of view

HWF 15x - 14.6 mm field of view

HWF 20x - 10.5 mm field of view

Auxiliary Lenses

0.5x magnification - 158 mm working distance

0.75x magnification - 100 mm working distance

1.5x magnification - 44 mm working distance

2.0x magnification - 30 mm working distance

Adjustment Controls

Interpupillary distance adjustment

Diopter adjustment on eyepieces

Key Features

Binocular optical path for reduced operator fatigue during extended observation sessions

Parfocal objective design maintains focus across the 0.7x to 4.5x magnification range without refocusing

Modular auxiliary lens system permits working distance optimization for varied specimen types

High-resolution flat-field optics minimize chromatic aberration and edge di

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.