

# ULTRAM SERIES

20 Years ago, Marco changed the boundaries of conventional slit lamp design and performance with the original Ultra Series. Today, the **Ultra M Series** introduces a new era of diagnostic empowerment. Marco has again established the latest standard in slit lamp examinations.

The complete **Ultra M Series of Slit Lamps** have been fully redesigned and engineered to accommodate and maximize the benefits of the new, **superior LED slit lamps**. The new LED illumination, with a color temperature of 3500 K, allows greater visibility and clarity of anatomy and tissue structure, with brighter and sharper light.

A **single element, high-luminance LED** provides a beautifully consistent and uniform light compared to multiple element LEDs.

**Patented integrated background illuminators** (standard in Ultra M4 and M5 models), optimize use with an imaging system. The color balance of an image is not lost or compromised when the same LED is used for the main light source and background illumination.

The **intensity control** of the background illumination is easily found and adjusted with a single, **illuminated knob**, conveniently placed adjacent to the joy stick.

The peak of the characteristic blue band LED spectrum has been diminished with the **Blue LED Correction Filter**. The Ultra M series are also equipped with Blue, Red-free (and Yellow light filters on M3, M4, and M5 models).

Our continuous pursuit in improving visibility of the fundus while simultaneously maintaining superior visibility of the anterior segment has resulted in the **best, brightest, and sharpest optical quality** in the Ultra M Series of slit lamps.

The aperture diameter of the **slit length has been extended**, from 10mm to 14mm (continuously variable from 0-14mm), allowing a wider area of anterior segment illumination and also a **wider field of view**.

The selection of component and **intelligent control sizes, placement, and interface** have been deliberately and carefully reimagined to address superior ergonomics and usability.

Patient **fixation target is a red LED** on a continuously flexible shrouded cable.

A **Large patient chinrest is standard** equipment with the Ultra M4 & M5, and provided as an optional accessory on the Ultra M2. Patient grips provide superior, comfort and positioning

The **Ultra M Slit Lamps are pre-mounted on a single plate** for facilitated set-up and stability.

The Ultra M Series of slit lamps have **eliminated visibly exposed cables**. Even the power supply is fully concealed and the **transformer is incorporated in the base-housing**. The conventional power cable from the chinrest to the light housing has been eliminated- now neatly concealed within the slit lamp body. Likewise, background illumination has been built-in to the Ultra M4 and M5 tower designs.

The **Ultra M Slit Lamps are neat and compact** with no exposed wiring, giving them a noticeably sleek and stylish appearance. **Contemporary and durable finishes** have been selected both for lasting application and patient appeal.

**We've reimagined better...and beyond**

For all things Ultra:  
[www.MARCO.com](http://www.MARCO.com)  
800.847.5274



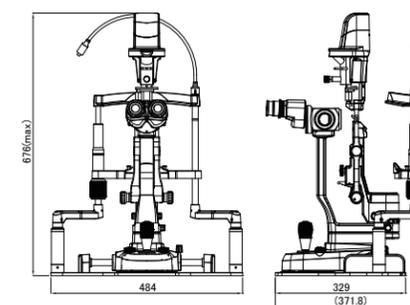
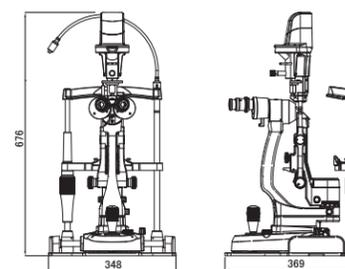
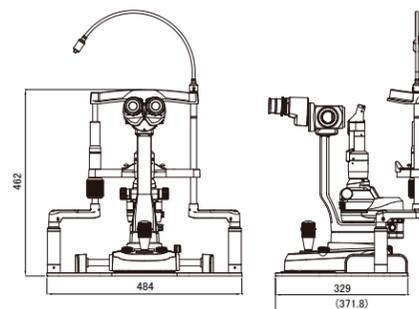
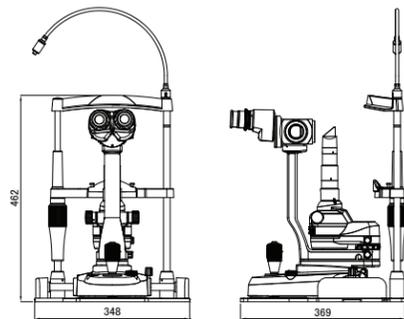
Y172500 BR-ULTRA M TechSpecs



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### FEATURES

|                                 | ULTRA M2  | ULTRA M4  | ULTRA M3   | ULTRA M5   |
|---------------------------------|---|---|--|--|
| Type Binocular Stereomicroscope | Parallel (Galilean)                                   | Parallel (Galilean)                                   | Convergent (Greenough)   | Parallel (Galilean)  |
| Light Source                    | LED   | LED   | LED  | LED  |
| Light Source Configuration      | Compact/horizontal                                    | Compact/horizontal                                    | Tower with Tilt  | Tower with Tilt  |
| Background Illumination         | Not standard (option only)                            | Yes   | Not standard   | Yes  |
| Light Filters                   | Blue, Red-free, Blue LED Correction                   | Blue, Red-free, Blue LED Correction                   | Blue, Red-free, Blue LED Correction, Yellow                                | Blue, Red-free, Blue LED Correction, Yellow                                |
| Slit Width                      | 0-14mm continuous variable                            | 0-14mm continuous variable                            | 0-14mm continuous variable   | 0-14mm continuous variable   |
| Aperture Diaphragm Diameter (Ø) | 14, 8, 5, 3, 0.3mm                                    | 14, 8, 5, 3, 0.3mm                                    | 14, 10, 5, 3, 2, 1, 0.2mm  | 14, 10, 5, 3, 2, 1, 0.2mm  |
| Total # Power Magnifications    | 3 (10x, 16x, 25x)                                     | 5 (6.3x, 10x, 16x, 25x, 40x)                          | 2 (10x, 16x) [3 (25x with 16x eyepieces)]                                  | 5 (6.3x, 10x, 16x, 25x, 40x)   |
| Magnification Change            | 3 Position Rotating Drum                              | 5 Position Rotating Drum                              | 2-position switch revolving objective                                      | 5 Position Rotating Drum   |
| Eye Pieces                      | 16x wide-field, high-eyepoint                         | 16x wide-field, high-eyepoint                         | 10x, (16x optional)  | 16x wide-field, high-eyepoint  |
| Real Field of View (Ø)          | 23.3mm, 14mm, 8.8mm                                   | 35.9mm, 23.3mm, 14mm, 8.8mm, 5.5mm                    | 18, 11.25 (with 10x eyepieces)<br>15, 9.3mm (with 16x eyepieces)           | 35.9mm, 23.3mm, 14mm, 8.8mm, 5.5mm   |
| Interpupillary Adjustment       | 52-82mm   | 52-82mm   | 52-82mm  | 52-82mm  |
| Diopter Adjustment Range        | (+/-) 7 diopters                                      | (+/-) 7 diopters                                      | (+/-) 8 diopters w 10x eyepieces (+/-) 10 diopters w 16x eyepieces         | (+/-) 7 diopters   |
| Horizontal Coarse Movement      | 105mm   | 105mm   | 105mm  | 105mm  |
| Horizontal Fine Movement        | 15mm  | 15mm  | 15mm   | 15mm   |
| Vertical Movement               | 30mm  | 30mm  | 30mm   | 30mm   |
| Fixation Light Source           | Red LED on Flexible Arm                               | Red LED on Flexible Arm                               | Red LED on Flexible Arm  | Red LED on Flexible Arm  |
| Large Patient Chin Rest         | Not standard (option only)                            | Yes   | Not standard (option only)   | Yes  |
| Chinrest Elevation              | 85mm  | 95mm  | 95mm   | 85mm   |
| Power Supply                    | AC100V-240V (+/-10%)                                  | AC100V-240V (+/-10%)                                  | AC100V-240V (+/-10%)   | AC100V-240V (+/-10%)   |
| Power Consumption               | DC5V 2A   | DC5V 2A   | DC5V 2A  | DC5V 2A  |
| Weight                          | 11Kg  | 11.5Kg  | 12.5Kg   | 12.5Kg   |
| Dimension Illustrations         | 462mm h x 348mm w (front)<br>462mm h x 369mm w (side) | 462mm h x 484mm w (front)<br>462mm h x 329mm w (side) | 676mm h x 348mm w (front)<br>676mm h x 369mm w (side)<br>[420mm to optics] | 676mm h x 484mm w (front)<br>676mm h x 329mm w (side)<br>[420mm to optics] |



ULTRA M2



ULTRA M4



ULTRA M3



ULTRA M5

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