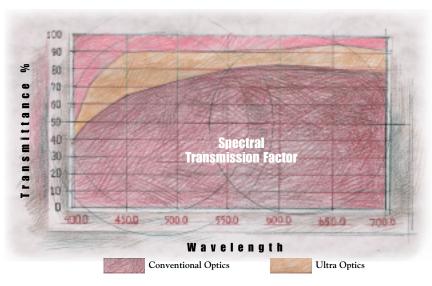


WHAT'S SO DIFFERENT ABOUT THE MARCO ULTRA SERIES?

In a word, *everything*. The Ultra Series from Marco changes the slit-lamp picture forever. First, we incorporated the very latest in materials, design and lens-coating technologies to create a new era in optical resolution and efficiency. Then we improved the ergonomics to make the Ultra Series the most convenient-to-use slit lamps in the industry. Finally, we designed the Ultra Series to be manufactured using up-to-the-minute production techniques, reducing assemblies that used to require as many as fifteen parts down to one single part. The result is higher quality, reduced maintenance and exceptional value.

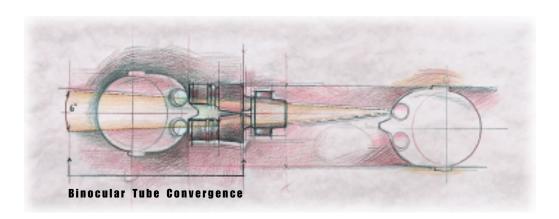
THE NEXT GENERATION IN OPTICS

With a new, modernized optical design, the Ultra Series utilizes a multi-layered, multi-coated system which transmits light more efficiently, producing a measurable 20% increase in optical resolution and clarity. The breakthrough optical quality of the Ultra Series also results in a 20% increase in light transmission, a 15% expanded field of view and a 14% increase in depth of field. A single look through the optics of any Ultra Series slit lamp is enough to tell you that a new age in diagnostic observation has arrived.



QUITE SIMPLY...THERE IS NO OTHER OPTICAL SYSTEM LIKE ULTRA OPTICS... TRULY REVOLUTIONARY.

The Galilean optics of our G-series (models G2, G4 and G5) feature a 6-degree inward convergence angle for the binocular tubes, an excellent angle for improving physician comfort by reducing optical fatigue. The G-series optical system is also optimized for today's video imaging.



THE ADVANCED OPTICS OF THE ULTRA SERIES IMPROVE EFFICIENCY BY AN AVERAGE OF 20% OVER CONVENTIONAL SLIT LAMPS.



A FULL RANGE OF ADVANTAGES.

EYEPIECES

- Newly designed high-eyepoint eyepieces (G·Models) help create a field of view 1.3 times wider than conventional slit lamps.
- Threaded, locking eyepieces eliminate the problem of slipping and feature individual dioptric rings that are adjustable for neutralizing refractive error.
- PD adjustment is synchronized over a wide range by manually positioning the right or left ocular section.
- The comfortable, fatigue-free 6-degree convergence angle remains constant regardless of PD adjustment.





MAGNIFICATION KNOB

- A flattened area on the magnification knob (G·models) allows the operator to adjust power by feel, without looking at the markings.
- With the flat position on top, powers are high; with the flat position on bottom, powers are low.

BASE

- A newly designed ergonomic joystick with its adjacent rheostat allows adjustment of elevation, all lateral movements and light intensity without removing your hand from the joystick.
- The joystick top button instantly increases illumination to its maximum intensity. Or...
- The joystick top button can also be instantly converted to a freeze-frame button for video image capturing.
- An increased X-Y base range of motion expands the observation area for more efficient 90D or similar auxiliary-lens examinations.
- Finer-pitched gears and metal tracks create smoother, more precise movement.
- More secure metal rack covers lock into position for enhanced stability.
- Sleek, curved lines designed to complement today's styling.



• For ease of maintenance, the rheostat is easily replaceable and the entire slit-lamp base is interchangeable between all Ultra models.

HEADREST

- The standard Y-shaped patient headrest comfortably accommodates most patients.
- An LED fixation light eliminates bulb replacement and assures a virtually unlimited life.

• The optional large patient headrest was specifically designed to accommodate larger patients, and easily mounts on any Ultra model slit lamp.



TRANSFORMER/TABLE TOP

- The transformer is more compact to reduce the possibility of patients' bumping it with their knees.
- The rheostat is located adjacent to the joystick for more convenient adjustment and a more compact transformer box.
- The slide base offers a more positive feel and better control with the joystick, while offering increased X-Y motion.
- The curved bumper guards of the table are safer, prevent damage, and more attractive.
- For ease of maintenance, the transformer/table top is interchangeable between all Ultra models.

LIGHT SOURCE

- The halogen illumination is transmitted more efficiently through an optically enhanced light source, producing a crisper, clearer image and improving video imaging quality.
- With the redesigned optical system, 20% less light is required for normal examinations.
- A 20% increase in aperture (10mm on models G5, 5 and 2B; 14mm on models G2 and G4) produces a wider field of illumination.
- The halogen bulb is easily accessible for replacement.
- Engraved scales are located on both right- and left-hand slit adjustment knobs.
- The redesigned light source produces more even illumination distribution throughout the entire field of view, resulting in better clarity.
- The "knife-edge" slit aperture mechanism produces a slit of unsurpassed sharpness.
- The filter-identification scale has been enlarged for simplified use and is individually labeled for easier recognition.
- All controls are made of anodized and bead-blasted metal for a high-precision feel, enhanced comfort and reduced maintenance.





ACCESSORIES

Ultra series slit lamps accommodate a complete range of accessories, including applanation tonometers, Hruby lenses, assistantscopes, and beamsplitters for full video equipment. The Marco ViewCube is an integrated beamsplitter/video camera that blends a traditional multi-piece system into one efficient component. The inclined oculars provide unlimited adjustability (0-60 degrees) which

helps eliminate head and neck strain associated with lengthy examinations.



THE ULTIMATE IN VERSATILITY, POWER AND VALUE





- Exceptionally natural and comfortable view is created by a parallel optical system with 6° converging binocular tubes, incorporating high-eyepoint, extremely wide-field eyepieces and Galilean magnification changer.
- G2 offers 10x, 16x and 25x magnification.
- G4 offers 6x, 10x, 16x, 25x and 40x powers.
- Designed for today's video imaging.
- Halogen illumination standard.
- Slit angle, width and height as well as filter placement, slit decentration and slit rotation are all controlled within a single hand's spread.
- Slit height is continuously adjustable from 1mm to 14mm.
- Slit height also has premeasured, fixed aperture diaphragms of 0.3, 3, 5, 8 and 14mm.
- Slit width is continuously variable from 0 to 14mm—the largest slit aperture in the industry.
- Built-in cobalt-blue, red-free and heat-absorbing filters can be easily dialed in as desired.
- Single joystick controls both elevation and horizontal positioning for enhanced ease of use.
- Rheostat conveniently located next to joystick.
- Adjustments are simple, fast and precise.
- Options include tonometer mount, Hruby lens kit, video kit, assistantscope and patient handrests.

MICROSCOPE

Type Galilean converging-binocular microscope

Magnification **G4**: Five position rotating drum **Changing System G2**: Three position rotating drum

16x

Total Magnifications 6.3x*10x 16x 25x40x* (*G4 only) 35mm* 23mm 14mm 8.7mm 5.6mm* Real Fields of View

diameters (*G4 only)

Interpupillary Adjustment 47mm - 85mm

SLIT LAMP

Eyepieces

Slit Projection

Slit Width 0 – 14mm, continuously variable Slit Length 1 – 14mm, continuously variable Aperture Diaphragms 14mm, 8mm, 5mm, 3mm, 0.3mm Heat absorbing, red-free, & cobalt blue Filters

CROSS-SLIDE BASE

Longitudinal Movement 90mm Lateral Movement 110mm Vertical Movement $\pm 15 mm$ Horizontal Fine Movement ±7.5mm

CHINREST

Fixation Lamp LED (red) Vertical Movement 78mm

Power

Input Voltage Maximum

AC110V, 120V, 220V, and 240V

Power Consumption 40VA

GENERAL

Weight Stock # Lamp **Tabletop Dimensions** Color/Finish

12V/30W halogen bulb 21.5" x 13.5" (550mm x 350mm)

G2: #1180, G4: #1140

37.4 lbs. (17 kg)

Misty Grey with durable Hammernet finish

ACCESSORIES

Standard

Optional

Spot fixation light, 16x eyepieces, table top, lowprofile mounting bracket, chinrest tissues, spare illumination bulb, fuses, and maintenance kit Hruby lens kit, tonometer mount, patient

handrests, beamsplitter, assistantscope, video adapter, and heavy joystick spring

THE POWER TO PERFORM



MICROSCOPE



- Exceptionally natural and comfortable view is created by a parallel optical system with 6° converging binocular tubes, incorporating high-eyepoint, extremely wide-field eyepieces and Galilean magnification changer.
- Five-step magnification range from 6.3x to 40x with the twist of a single knob and no change of eyepiece.
- Fingertip millimeter slit-width control provides highly precise adjustment.
- Single-handed elevation system.
- Easy-to reach tilt mechanism for gonioscopy.
- Dial-in, and continuously variable aperture setting from 10mm to 0.2mm. Ideal for measuring ocular structures to 0.1mm.
- Focusing fixation light is adjustable to each patient.
- Halogen illumination standard.
- Five built-in filters (two cobalt).
- Rheostat conveniently located next to joystick.
- Patient handrests standard.
- Tonometer mount and Hruby lens kit optional.
- Superb depth of field is ideal for today's technically advanced imaging systems. An available beamsplitter featuring an "in-out" prism system allows full illumination to the practitioner during observation and maximum illumination to the imaging system when in position.
- Dual port beamsplitter also allows an assistantscope to be attached.

Туре	Galilean converging-binocular microscope					
Magnification Changing System	Five position rotating drum					
Eyepieces	16x		O			
Total Magnifications	6.3x	10x	16x	25x	40x	
Real Fields of View			14mm	8.7mm	5.6mm	
	diameters					
Interbubillam Adjustment	47mm	85mm				

Interpupillary Adjustment	47mm – 85mm
SLIT LAMP	
Slit Projection	0.8x
Slit Width	0 – 10mm, continuously variable
Slit Length	1 – 10mm, continuously variable
Aperture Diaphragms	10mm, 5mm, 3mm, 2mm, 1mm, 0.2mm
Filters	Heat absorbing, UV, red-free, & cobalt blue
CROSS-SLIDE BASE	

Filters	Heat absorbing, UV, red-free, & cobalt blue
CROSS-SLIDE BASE	
Longitudinal Movement	90mm
Lateral Movement	110mm
Vertical Movement	±15mm
Horizontal Fine Movement	±7.5mm

CHINREST				
Fixation Lamp	LED (red)			
Vertical Movement	78mm			
Power				
Input Voltage	AC110V, 120V, 220V, and 240V			
Maximum Power Consumption	40VA			
GENERAL				
Weight	33 lbs. (15 kg)			
Stock #	#1150			
Lamp	12V/30W halogen bulb			
Tabletop Dimensions	21.5" x 13.5" (550mm x 350mm)			
Color/Finish	Misty Grey with durable Hammernet finish			
Accessories				
Standard	Focusing fixation light, 16x eyepieces, full and half mirrors, table top, patient hand-rests, low-profile mounting bracket, chinrest tissues, spare illumination bulb, fuses, and maintenance kit			
Optional	Hruby lens kit, tonometer mount, beam-splitter, assistantscope, video adapter and heavy joystick spring			

ULTRA G5 ZOOM SLIT LAMP



- Unprecedented high resolution motorized zoom optical system.
- Adjustable fingertip switches control motorized zoom/focus and illumination intensity.
- Incorporates the proprietary, advanced light-gathering Ultra Optics.
- "Flip-up" magnification display mirror.
- Illuminated magnification power display window.
- Specially-coated reflection mirror reflects harmful UV rays.
- Accommodates a complete range of accessories, including assistantscopes, beamsplitters, and video cameras.
- Quick-adjust elevation base spring for heavier mounted accessories.
- Built-in tonometer mount.



"Flip-up" illuminated magnification mirror instantly displays magnification power.



Adjustable, multi-directional fingertip switches control motorized zoom and illumination intensity.



M	C	R	o	S	C	O	P	F

Type Zoom type converging binocular microscope

Zoom ratio6XEyepieces12.5XObjectiveF=113mmTotal magnifications5.9X-35X

Real fields of view 40mm-6.7mm diameter

Working distance 104.6mm

Dioptric adjustment +/-5D

Interpupillary adjustment 52mm-82mm

SLIT LAMP

Slit projection 0.8X Working distance 80mm

Slit width 0-10mm (becomes a circle at

10mm diameter)

Slit length

0.2mm, 1mm, 2mm, 3mm, 5mm, 10mm diameter

Filters Heat absorbing, UV, red-free and cobalt blue

Rotation of slit image
Slit image scanning
Bulb
Laterally +/-90° from the vertical
Horizontally +/-7° in either direction
12V 30W halogen bulb

CROSS-SLIDE BASE

Longitudinal Movement90mmLateral Movement110mmVertical Movement±15mmHorizontal Fine Movement±7.5mm

CHINREST

Fixation Lamp LED (red)
Vertical Movement 78mm

Power

Input Voltage AC110V, 120V, 220V, and 240V

and 240

Maximum Power Consumption 40VA

GENERAL

Weight 33 lbs. (15 kg) Stock # #1150-Z

Lamp12V/30W halogen bulbTabletop Dimensions21.5" x 13.5" (550mm x

350mm)

Color/Finish Misty Grey with durable

Hammernet finish

Accessories

Standard

Focusing fixation light, 16x eyepieces, full and half mirrors, table top, patient hand-rests, low-profile mounting bracket, chinrest tissues, spare illumination bulb, fuses, and maintenance kit

Optional

Hruby lens kit, tonometer mount, beam-splitter, assistantscope, video adapter and heavy joystick spring

CONVERGING ON POWER, PERFORMANCE AND PRICE





- Both the 2b and model 5 combine remarkable ease of use with high quality converging optics and the same precision construction found in other Ultra Series models.
- e S
- The model 2b is ideal for general examination procedures and contact lens work. It finds wide acceptance in satellite offices as well as in larger practices with multiple lanes. The model 5 is slightly more advanced and comes standard with many of the same features that are offered on our more sophisticated model G5.
- The model 5 has a dial-in, continuously variable aperture setting that is adjustable from 10mm to 0.2mm. An easy to reach light source tilting mechanism is also standard on the model 5.
- The model 2b has a more simplified light source with six, pre-set aperture positions.
- Five built-in filters, including two cobalt, are standard on the model 5. The model 2b comes standard with four built-in filters.
- The model 5 comes standard with a focusing fixation light while the 2b comes standard with a pencil-point fixation light.
- Fingertip millimeter slit-width control with precision adjustment. Single-handed elevation joystick.
- Halogen illumination standard.
- Rheostat conveniently located next to joystick.
- 0 to 10mm slit width.

Marco-Certified Quality assures you of the very finest vision products for your practice and it's your mark of confidence.

ACCESSORIES

Optional

Standard 10x evepieces, full mirror,

table top, low-profile mounting bracket, chinrest

maintenance kit, focusing

fixation light (5), patient

handrests, and half mirror

(5 only), fixation light (2b)

eyepieces, 25x eye-pieces,

measuring reticle, and

patient handrests (2b)

tissues, fuses, and

Hruby lens kit, 16x



MICROSCOPE

Type Greenough convergingbinocular microscope

 Magnification
 Two position revolving objective

Eyepieces 10x
Total Magnifications 10x and 16x

Real Fields of View 18mm and 15mm diameters

Interpupillary Adjustment 48mm – 80mm

SLIT LAMP

Slit Projection 0.8

Slit Width 0 – 10mm, continuously variable Slit Length 1 – 10mm, continuously variable

('

10mm, 5mm, 3mm, 2mm, 1mm,

0.2mm, Fixed (2b)

Aperture Diaphragms 10mm, 5mm, 3mm, 2mm, 1mm,

0.2mm

Filters Heat absorbing, UV, red-free,

& cobalt blue

CROSS-SLIDE BASE

 Longitudinal Movement
 90mm

 Lateral Movement
 110mm

 Vertical Movement
 ±15mm

 Horizontal Fine Movement
 ±7.5mm

CHINREST

Fixation Lamp LED (red)
Vertical Movement 78mm

Power

Input Voltage AC110V, 120V, 220V, and 240V Maximum Power

Consumption 40VA

GENERAL

Weight 39.6 lbs. (18 kg) Stock # 5: #1105; 2b: #1101

Tabletop Dimensions 21.5" x 13.5" (550mm x 350mm) **Lamp** 12V/30W halogen bulb

Color/Finish Misty Grey with durable Hammernet finish

MARCO

ELEADER IN VISION DIAGNOSTICS"

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