

# ALCON CONSTELLATION VISION SYSTEM



## ABOUT

The Alcon Constellation Vision System is a comprehensive surgical platform designed for both anterior and posterior segment ophthalmic procedures. This multifunctional system integrates advanced technologies for vitrectomy, phacoemulsification, illumination, diathermy, and laser treatment, providing surgeons with unparalleled control and precision. Its intuitive graphical interface and customizable settings streamline workflow in the operating room, enhancing efficiency and surgical outcomes.

## FEATURES

- **UltraVit® High-Speed Vitrectomy:** Offers cutting rates up to 5,000 cpm with duty cycle control for precise flow management.
- **Integrated PurePoint® Laser:** Embedded 532nm laser module provides endolaser capability directly from the system's touchscreen.
- **Advanced Fluidics Management:** Features pressurized infusion and precise aspiration control with rapid transient response.
- **Phacoemulsification Capability:** Supports torsional, longitudinal, and combination phaco modes with customizable pulse and burst settings.
- **Xenon Illumination System:** Delivers up to 50 lumens through 20-gauge fiber optics for optimal surgical visualization.
- **V-LOCITY® Efficiency Components:** Includes RFID-enabled disposable recognition, auto gas fill, and articulating tray arm for optimized workflow.
- **Multi-Modality Platform:** Combines vitrectomy, fragmatome, diathermy, scissors, and viscous fluid control in a single system.



# SPECIFICATIONS

## DIMENSIONS

### Tabletop Dimensions

- **Height:** 63.0 in (160.0 cm)
- **Width:** 30.0 in (76.2 cm)
- **Depth:** 30.5 in (77.5 cm)

### Base Dimensions

- **Height:** 25.0 in (63.5 cm)
- **Width:** 21.0 in (53.3 cm)
- **Depth:** 22.5 in (57.2 cm)

Tabletop Weight: 135 lbs (61.2 kg)

Base Weight: 160 lbs (72.6 kg)

## POWER REQUIREMENTS

**Voltage:** 100-120V AC / 220-240V AC

**Frequency:** 50/60 Hz

**Current:** 12A max (100-120V) / 7.5A max (220-240V)

**Protection Class:** Class I

## ENVIRONMENTAL SPECIFICATIONS

**Operating Temperature:** 50°F to 95°F (10°C to 35°C)

**Storage Temperature:** 14°F to 131°F (-10°C to 55°C)

**Relative Humidity:** 10% to 95% (non-condensing)

**Operating Altitude:** -410 to 6,562 ft (-125 to 2,000 m)

## PERFORMANCE SPECIFICATIONS

**Infusion Pressure:** 0-120 mmHg ( $\pm 2\%$  accuracy)

**Aspiration Vacuum:** 0-650 mmHg ( $\pm 2\%$  accuracy)

**Vitrectomy Cut Rate:** 100-5,000 cpm (UltraVit 5000 probe)

**Phaco Frequency:** 34-42 kHz

**Illumination Output:** 50 lumens min (20GA, 0-200 hrs)

**Laser Output:** 30 mW to 2W (532nm wavelength)