

Patient Positioning Laser Specifications



Mechanical & Optical

	CL 505	CL 606
Beam Width	1.0mm @ 3m distance (0.04in @ 10ft)	0.5mm @ 2m distance (0.02in @ 6.6ft)
Beam Length	0.75m @ 3m distance (2.5ft @ 10ft)	0.5-0.6m @ 3m distance (1.65-2ft @ 10ft)
Beam Color	Red	Red or Green
Focus Range	0.75-5m (2.5-16ft)	0.75m - ∞ (2.5ft - ∞)
Rotation Range	+/- 4° per axis	+/- 10° per axis
Offset Range	+/- 0.28m @ 3m/axis (+/- 11in @ 10ft)	+/- 0.28m @ 3m/axis (+/- 11in @ 10ft)
Pitch Adjustment	+/- 4°	+/- 5°
Roll Adjustment	+/- 4°	+/- 5°
Yaw Adjustment	0° - 4° or 0° - 50° with optional bracket	+/- 46°
Vertical Adjustment	0° - 50°	+/- 10mm
Horizontal Adjustment	0° - 4° or 0° - 50° with optional bracket	+/- 10mm

Electrical

	CL 505	CL 606
Output Power	Adjustable 0.5-3.5mW (per axis)	Green 0.1-1.0mW Red 0.5-3.5mW(per axis)
Wave-length	635 or 650nm	Green 532nm Red 635 or 650nm
Operating Current	Input Module: <200mA Input Laser Diode: <150mA	Input Module: <500mA Input Laser Diode: <400mA
Operating Voltage	Input Module: 5Vdc Input Laser Diode: 2Vdc	Input Module: 5Vdc Input Laser Diode: 2Vdc
Consumption	<1 Watt	<2 Watts
Power Requirement	90-265 VAC 50/60 Hz	90-265 VAC 50/60 Hz
Nominal Lifetime	minimum 10 000 hours	minimum 10 000 hours



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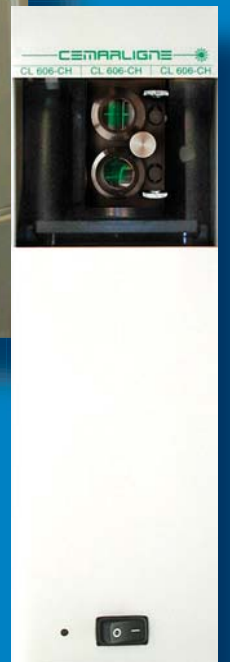
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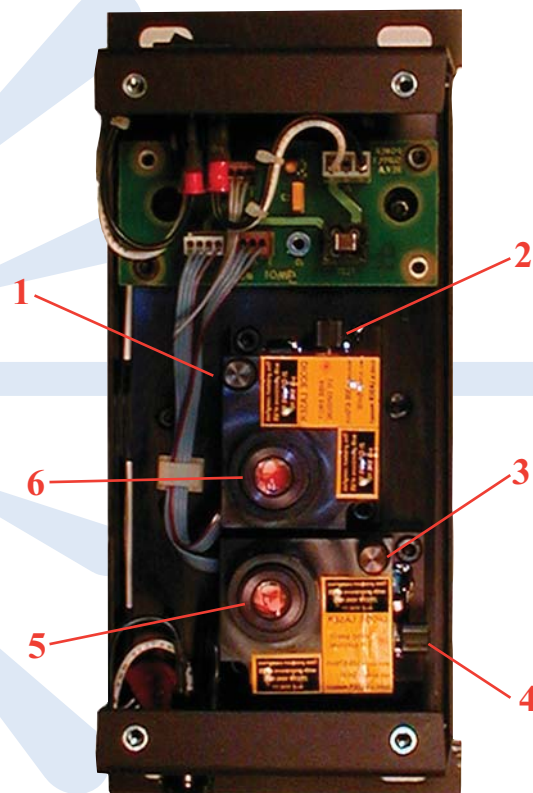
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CL 505 Series

Easy-to-use controls

1. Roll adjustment for vertical beam
2. Pitch adjustment for vertical beam
3. Pitch adjustment for horizontal beam
4. Roll adjustment for horizontal beam
5. Aperture for horizontal beam output
6. Aperture for vertical beam output



Vertical pivoting base model# SVB

Optional wall brackets allow for 0° - 50° adjustment

Horizontal pivoting model# CBH

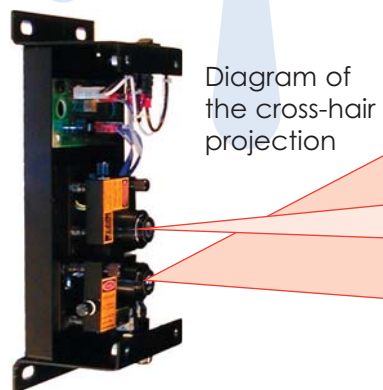
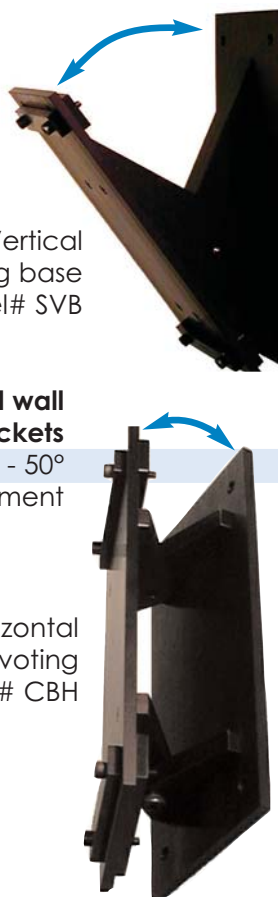
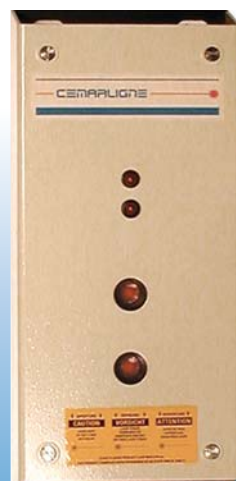


Diagram of the cross-hair projection

Cemarligne lasers feature easy-to-use manual adjustments (no tools required)



The CL 505 series Patient Positioning System uses two solid state laser diode projectors with adjustable power settings to form a bright **red** cross-hair projection on a patient.

The system is available in three configurations:

- CL 505-CH-2 projects the cross-hair
- CL 505-CH-1 projects a single line
- CL 505-CH-0 projects a single dot

Interchangeable projection modules make it possible to quickly change the CL 505-CH to any of the above configurations.

Quality Assurance

Cemar Electro is ISO 9001:2000 certified and adheres to the highest engineering and manufacturing standards. All lasers produced in our facility undergo rigorous testing before shipment.

Warranty

Cemar Electro stands behind its products with the best warranty in the business: **all of our lasers are covered by a 2-year parts and labor warranty.**

Service

We service all makes and models of diode line generating lasers in our repair facility. All repairs are shipped within 48 hours of an approved estimate.

Cemarligne cross-hair projectors represent the leading edge in precision alignment instrumentation.

Built around advanced solid state technology and robust mechanical design, these projectors will provide years of reliable, maintenance-free service.

Using advanced laser-diode projection technology and precise mechanical

design, this system adheres to the exact needs of your medical applications.

The compact design of the Patient Positioning System ensures its suitability to your environment.

Features include:

- Solid and compact design
- No tools needed to adjust system
- World-wide power supply compatibility

CL 606 Series Easy-to-use controls

Cemarligne lasers feature easy-to-use manual adjustments (no tools required)



Beam Adjustment Examples:

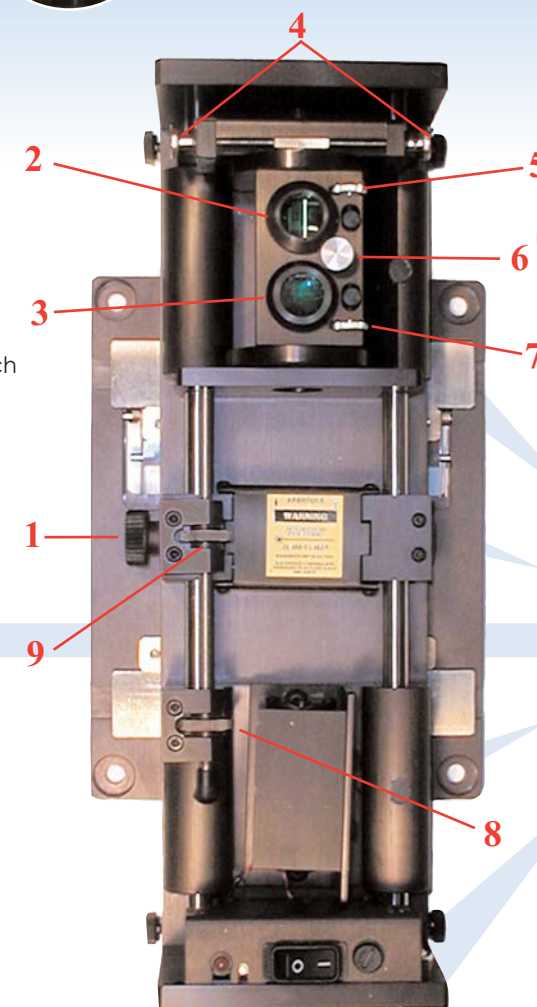


The CL-606 patient positioning system uses a **green** or **red** laser diode to project a cross-hair target onto a patient, assisting the alignment of radiation oncology devices.

The benefit of the **green** laser is its contrast on any skin pigmentation.

This laser is designed for years of service, and the modular construction means easy maintenance when necessary.

1. Horizontal position of cross-hair
2. Aperture for horizontal beam output
3. Aperture for vertical beam output
4. Yaw adjustment
5. Roll adjustment for vertical beam
6. Pitch adjustment for horizontal beam
7. Roll adjustment for horizontal beam
8. Line focus adjustment
9. Vertical position of cross-hair



Built with adaptability in mind, this system can be installed virtually anywhere. It can be modified to project a cross-hair, single line, or up-to two dots, as required by the application.

