HeNe Lasers

Exact-Align (red)

HeNe is the standard for patient positioning. The turret design allows for line angulations of plus or minus 45 degrees. This means they can be mounted at an angle to the patient couch if necessary without angle brackets. This direct wall mounting provides greater stability. There is virtually no drift and a line width of less than 1 mm at ten feet.

Exact-Align (green)

The green lasers have the same qualities as the red lasers but projects green light visible on any skin tone. The high quality fine line also proves useful in situations such as stereotactic radiosurgery where precision positioning is critical.

BackPointer (red)

Designed to be used with wall-mounted lasers, the Back Pointer laser defines the axis of the radiation source as well as the isocenter, regardless of gantry orientation. This offers total flexibility in installation and upgrading of existing systems. The laser generator connects to a fiber optic system and so can be mounted either remotely or inside the gantry of the therapy machine. Laser light is piped through a fiber optic cable to a compact projection head that is easily mounted on or in the radiation therapy unit. The cable and optical heads carry no electrical power, so they will not interfere with equipment. The Back Pointer can be used to define axis of rotation and radiation source. With the use of overhead and lateral lasers, it can also be used to define the exit axis.

	Series	Model	Pattern	Color
HeNe Lasers	Exact-Align	1 A480 1 A619	Crosshair Sagital/line/dot	Green
		1 A475 1 A618	Crosshair Sagital/line/dot	Red
	Back Pointer	A 176 A 177A	Line Line	Red
Diode Lasers	Probe	GLD-200 GLD-400	Sagittal Crosshair	Red
	Probe +	GLD-250 GLD-450	Sagittal Crosshair	Red
	Probe G	GLD-300 GLD-500	Sagittal Crosshair	Green

System complies with Center for Devices and Radiological Health regulations for Class II lasers.

Diode Lasers

Probe (red)

The Probe lasers utilize a 635 nm red diode that is perceived as four times as bright as a 670 nm diode and two times as bright as a 650 nm diode. This is essentially the same brightness as the standard HeNe laser systems. The Probe offers a variable intensity control to adjust the brightness level to room lighting conditions. The baseplate of all Probe lasers is the same as the Exact-Align HeNe style so they can be retrofitted into existing installations.

Probe + (red)

The Probe + has a line width of less than 0.5 mm line width at 2 meters. The unique and proprietary thermal design of the Probe series has no visible “drift.” Vertical and horizontal adjustments allow for angular and planar movement making it easy to install. A versatile optical design allows for ±80-degree turret rotation.

Probe G (green)

Green light is “absorbed”, thereby minimizing line diffusion while maintaining crisp lines. The Probe G has less than a 0.8 mm line width at a distance of 3 meters. A unique mechanical design makes it easy to use and maintain. After initial adjustment, no visible drift is seen with the laser lines. The circuitry is also shielded to extend diode life.

		Diode	HeNe
Laser Beam Output	Power:	< 0.5 mW	Red: < 1 mW Green: < 0.2 mW
	Spot size:	N/A	1.2 mm dia. at 3 m
	Range:	up to 6 m	up to 9.1 m
	Line width:	< 1 mm at 3 m max.	
	Drift:	none measurable	0.25 mm at 3 m max.
	Wavelength:	Red: 635 nm	Red: 628.8 nm Green: 543.5 nm
	Visibility:	clearly visible in strong ambient light	
Laser Beam Adjustment	Horizontal range of vertical projection: Spot or line –330 cm at 3 m Vertical range of horizontal projection: Spot or line, +102 cm -305 cm at 3 m Line angulation: –180		
Physical	Power:	12 VDC, 300 mA	115 or 230 VAC, 50/60 Hz, 25 W
	Dimensions:	16.5 x 13.7 x 7.3 cm (6.5 x 5.4 x 2.9 in)	43 x 13.7 x 7.9 cm (16.9 x 5.4 x 3.1 in)
	Weight:	1.8 kg (4 lbs)	4.5 kg (10 lbs)

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