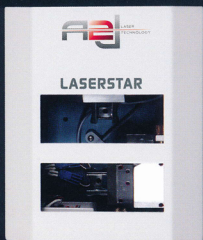


LaserStar  
Dual Cross

A2J fixed laser systems LaserStar range ensures patient alignment in radiotherapy, nuclear medicine, neurosurgery, and radiology. These laser systems enable a high accuracy such as the one required for stereotaxic radiosurgery.



	LaserStar Red Emission	LaserStar Green Emission
Lateral laser	LS 002 / R	LS 002 / G
Sagittal laser	LS 001 / R	LS 001 / G
Line width (up to 5 m distance)	< 1 mm	< 1 mm
Line length (at 3 m distance)	3 m	3 m
Laser type	Diode	DPSS*
Wavelength	650 nm	532 nm
Beam colour	Red	Green
Output power	< 1 mW	< 1 mW
Projection type	Line or cross	Line or cross
Laser class	II	II
Power supply	110V - 230V	110V - 230V
Power supply type	internal	external
Ambient temperature	0 - 40 °C	15 - 30 °C
Dimensions (H x W x D) including wall slab	193 x 164 x 82 mm	193 x 164 x 82 mm
Weight	2.15 Kg	2.15 Kg
Isocentre adjustment accuracy	± 0.1 mm	± 0.1 mm
Control type	manual	manual
Specific characteristics		
Adjustments	No possible interference. Each laser is adj.	

\*Diode-Pumped Solid State

## LASERSTAR

### Easy installation

Fixation of the wall slab

- Easy set up helped by an engraved cross corresponding to the light projection of the UNAC for radiotherapy.
- Easy set up helped by a laserliner for the laser positioning on the wall when coupled with CT, Pet CT, PET camera, MRI and gamma camera.
- Lateral movement of the slab on the wall ± 25 mm.

### Fixation of the laser on the wall slab

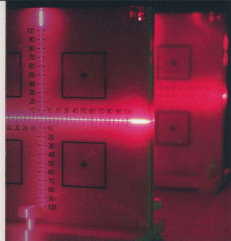
- Easy and precise installation with 2 linears and 2 fixation points.
- Vertical movement of the laser on the slab ± 25 mm.

### Maintenance

Maintenance of the laser may occur without removing it from the wall and without return to manufacturing plant, only by changing the laser block or power block.

### Quality

- Laser systems LaserStar are guaranteed by A2J quality assurance included in the "A2J quality assurance manual".
- A2J laser systems include 1 year guarantee.
- A2J is certified ISO 9001: 2008
- A2J LaserStar range is CE marked and complies with the European standard EN 60825-1.



LaserStar MOTOR	LaserStar MOTOR	LaserStar DUAL CROSS	LaserStar DUAL CROSS MOTOR
<b>Red Emission</b>	<b>Green Emission</b>	<b>Red / Green Emission</b>	<b>Red / Green Emission</b>
LS 002 / MR	LS 002 / MG	LS 003 / DC	LS 003 / MDC
LS 001 / MR	LS 001 / MG		
< 1 mm	< 1 mm	< 1 mm	< 1 mm
3 m	3 m	3 m	3 m
Diode	DPSS*	Diode / DPSS*	Diode / DPSS*
650 nm	532 nm	650 / 532 nm	650 / 532 nm
Red	Green	Red / Green	Red / Green
< 1 mW	< 1 mW	< 1 mW	< 1 mW
Line or cross	Line or cross	Dual cross	Dual cross
II	II	II	II
110V - 230V	110V - 230V	110V - 230V	110V - 230V
internal	external	external	external
0 - 40 °C	15 - 30 °C	15 - 30 °C	15 - 30 °C
193 x 164 x 98 mm	193 x 164 x 98 mm	500 x 164 x 82 mm	500 x 164 x 98 mm
2.70 Kg	2.70 Kg	4.65 Kg	5.40 Kg
± 0.1 mm	± 0.1 mm	± 0.1 mm	± 0.1 mm
Remote control	Remote control	manual	Remote control

- Dual isocentre with 30 cm interval
- Three laser beams
- Optimised security: Emission of the red cross for the treatment axis, green horizontal emission for the positioning isocentre

by three moving dimensions: Linear translation  $\pm 20$  mm ; Angle of Inclination 45° ; Rotation 360°



## ACCESSORIES

- Small floor mount column to fix laser to the floor.
- Ceiling mount to fix laser to a concrete ceiling slab.

The floor mount columns and the ceiling mount will be required: when a lead-covered door or window-pane is present, if the beam axis incline is higher than 45° and/or if the wall is not sturdy enough.