

MiniSpot X2 & MicroSpot X2

Micromanipulators



Maximum Laser precision with
microscopes and colposcopes



Limmer
L A S E R 



Micromanipulator MiniSpot X2

Designed for modern colposcopes

Main Advantages

- Easy mounting by angled connector
- Always congruent pilot and working beam
- Fully transparent mirror for best view with camera systems
- Compatible to Scanner SurgiScan for rapid tissue ablation (e.g. dysplasia)

Typical Applications

- **Gynaecology** (e.g. condylomata, dysplasia)
- **General Surgery**

Micromanipulator MicroSpot X2

Maximum beam precision and performance with microscopes.

Main Advantages

- Working distance of 200 - 600 mm with instant coagulation control by defocussing lever
- Adjustable, ultra-precise spot sizes of down to 0.1 mm
- Perfect alignment of pilot and working beam, with better sight onto tissue by fully transparent mirror
- Fits to all major surgical microscope models, optimized for both right and left handed surgeons
- Remote control joystick available for rotation of scanner patterns

Typical Applications

- **ENT** (e.g. stapes treatments, vocal folds surgery, laryngeal surgery, etc.)

Recommended for all treatments which require maximum surgical precision at **smallest spot sizes** and **minimal collateral damages** to surrounding tissue.



Scanner patterns of micromanipulator MicroSpot X2 in combination with optional Scanner SurgiScan X2, e.g. for stapes & larynx surgery.

Working distance	Focussed spot size	Lever-defocussed spot size
f = 200 mm	0.100 mm	2.5 mm
f = 300 mm	0.125 mm	3.5 mm
f = 400 mm	0.150 mm	4.6 mm
f = 500 mm	0.159 mm	5.1 mm
f = 600 mm	0.170 mm	5.6 mm