



FSOC WINDOW ABLATION LASER

qBeam's portable laser ablation device allows Free Space Optical Communications (FSOC) to operate through typical office windows.

Commercial buildings utilize energy efficient windows (low-E) to reduce HVAC operating costs. This coating blocks infrared wavelengths and thus precludes operating FSOC equipment from indoors.

A small opening is created in the low-E coating using a laser beam to allow IR energy to pass through with minimal attenuation.

Dramatic improvement in transmission for free space optical communications.

The process is permanent and can be applied in a matter of minutes.



LINK SCENARIO



FEATURES

- ◆ Portable handheld laser ablation system
- ◆ Variable focus depth to accommodate most commercial windows
- ◆ Can create openings in the low-E coating up to 95x95mm without repositioning the device
- ◆ Easy to use GUI runs on laptop (not shown)
- ◆ Available in 110V/60Hz or 220V/50Hz configuration
- ◆ Class IV laser device (1064nm)