Recommended Room Requirements

- 12 ft by 15 ft (3.6 m by 4.5 m) or larger
- Width of entry into room should be 40 in (102 cm)
  Minimum: 36 in (91.5 cm)
- Floor must be able to support 2,770 lb (1,257 kg) – 2,000 lb (907 kg) for system and 770 lb (350 kg) for personnel
- Ambient temperature: 60° F to 80° F (15° C to 27° C)
- Humidity requirement: Relative humidity between 35% to 65% (non-condensing)
- Barometric pressure 11 psi to 16 psi (1.6 kPa to 2.3 kPa)
- All electrical connections to laser system should be on same wall and by system rear door
- Room should be kept clean; dust particle-free by tiling floor; do not install carpet; avoid ceiling tiles that shed particles. Room purifier or room evacuation fan is required. If room is freshly painted, do not install system until three weeks have passed to allow paint to dry thoroughly

CAUTION: Laser-assisted in-situ keratomileusis (LASIK) can only be performed by a trained ophthalmologist and for specified reduction or elimination of myopia, hyperopia, and astigmatism as indicated within the product labeling.

Typical layout for a 12 ft by 15 ft (3.6 m by 4.5 m) room.
The service access doors are shown in the open position.
System Dimensions and Weight

- Height: 59 in (149 cm) maximum
- Width: 50 in (127 cm) (overall)
- Length: 80 in (203 cm)
- Weight:
  - Main Console – 1,600 lbs (726 kg)
  - Patient Chair – 400 lbs (181 kg)
  - Patient Chair: Perpendicular to system at treatment end

Electrical Requirements

Follow all local codes and standards. Electrical conduit to the room must carry:

- 220 to 245 VAC single phase, plus ground, 60 Hz (U.S. specifications)
- 30 amp service
- A main power disconnect system is required
- Use breaker or fused type with disconnect switch
- Hard-wire system into electrical box
- Place box no more than 10 ft (3 m) from cord outlet on laser unit
- Provide a strain relief where laser power cable enters box. Power cable diameter is 0.75 in (1.9 cm)
- Place electrical box approximately 5 ft (152 cm) from floor and close to system
- Electrical connections should be placed by system rear door

Abbott Medical Optics Inc. cannot take responsibility for the ability of any building, office, or other structure or installation site to meet building codes. Due to the uniqueness of individual building construction and local code variation, Abbott strongly recommends that specific installations be analyzed individually, by consulting with a structural engineer.

IMPORTANT SAFETY INFORMATION:

Laser refractive surgery is contraindicated for patients: a) with collagen vascular, autoimmune, or immunodeficiency diseases; b) who are pregnant or nursing women; c) with signs of keratoconus or abnormal corneal topography; d) who are taking one or both of the following medications: Isotretinoin (Accutane®) and Amiodarone hydrochloride (Cordarone®). Potential side effects to laser refractive surgery may include glare, dry eye, as well as other visual anomalies. LASIK requires the use of a keratome that cuts a flap on the surface of the cornea; potential side effects may include flap-related complications. Patients are requested to consult with their eye care professional and Patient Information Booklet regarding the potential risks and benefits for laser refractive surgery; results may vary for each individual patient. Refer to STAR S4 IR® Operator's Manual for applicable LASIK indications, contraindications, and warnings and precautions.


For a complete set of requirements and information on site installation/preparation please contact our technical support team at 1.800.511.0911

© 2016 Abbott Medical Optics Inc. STAR S4 IR is a trademark owned by or licensed to Abbott Laboratories, its subsidiaries or affiliates. PP2015OTH0510