



OPERATION MANUAL

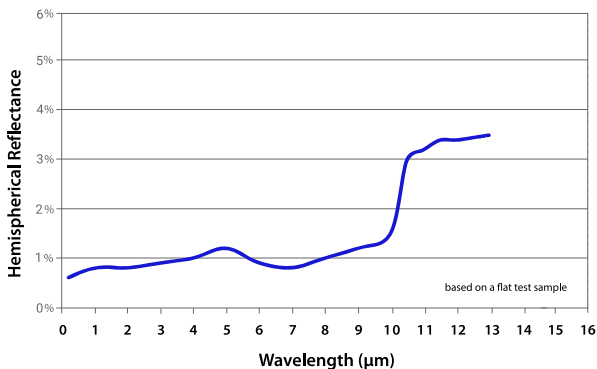


Caution: Always Wear Laser Protective Eyewear

1. DESCRIPTION

TRAP-IT™ Low Reflectance beam dumps are safety devices that dissipate incoming laser power. The surface finish provides < 3.5% reflectance from 190-10,600nm. Place beam dumps in a position along the optical beam path to provide a final beam stop. For applications that range outside product specifications, we recommend users expand the beam size with a negative lens to lower the power density level.

2. REFLECTANCE GRAPH



3. LASER SAFETY

Depending on the operating parameters of the laser source and the potential to exceed MPE (Maximum Permissible Exposure) limits, there may be a significant risk of eye injury. Under such conditions, we recommend using appropriate laser protective eyewear. Laser protective eyewear must be evaluated in accordance with ANSI Z136.1 Standard for the Safe Use of Lasers.

4. INSTRUCTIONS

1. Calculate your laser beam average power and maximum power density.
2. Never place the product in a location above the maximum suggested power density, as damage could occur to the product finish.
3. Position the laser beam centerline within the TRAP-IT™ LR target.
4. If this product is used as a control measure, make sure it is fastened to the table to prevent it from being moved or knocked over.

5. PREVENTIVE MAINTENANCE

Depending on the frequency of use and the number of personnel that have access to the laser application, we recommend you inspect the product daily or weekly.

- Verify the product is in the correct orientation to the incoming laser beam.
- Verify that the absorbing target surface hasn't been damaged by the laser.
- Clean with methanol alcohol or acetone, use very light pressure as coating is sensitive to physical damage.

6. COMPLIANCE

This product line is RoHS, REACH, ISO 9001:2015, AS9100 compliant.





Part Number	Target Aperture	Spectral Sensitivity	Max. Average Power	Damage Threshold	Thermal Management
ABDLR-30	1.18 inch [30mm]	190-10,600nm	50 watts	20 watts/cm ²	Convection Cooled
ABDLR-30NP	1.18 inch [30mm]	190-10,600nm	50 watts	20 watts/cm ²	Convection Cooled
ABDLR-51	2.00 inch [50.8mm]	190-10,600nm	50 watts	20 watts/cm ²	Convection Cooled
ABDLR-51NP	2.00 inch [50.8mm]	190-10,600nm	50 watts	20 watts/cm ²	Convection Cooled
ABDLRT-90	3.54 x 3.54 inch [90 x 90mm]	190-10,600nm	50 watts	20 watts/cm ²	Convection Cooled
ABDLRT-90NP	3.54 x 3.54 inch [90 x 90mm]	190-10,600nm	50 watts	20 watts/cm ²	Convection Cooled
ABDLRT-50	2.00 inch [50.8mm]	190-10,600nm	20 watts	20 watts/cm ²	Convection Cooled
STAND-ITM	Optical Stand with M6 Thread				



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