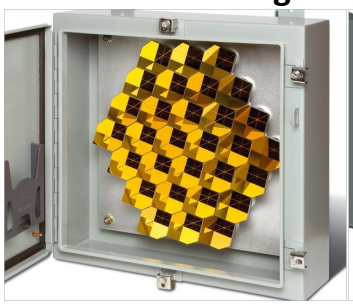
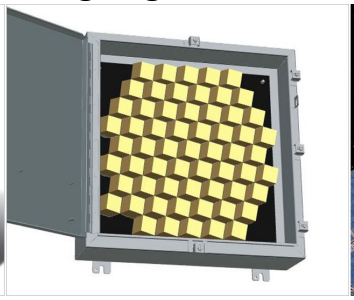
PLX Hollow Retroreflector ArraysTM

For modern FTIR long-path spectroscopy over a wide range and long distances, providing high-quality wavefronts for perfect parallelism between incoming and outgoing beams and high-efficiency returns.


HOLLOW RETROREFLECTOR ARRAYS™ (HRA)

- Arrays can vary in size from a few inches in diameter to several feet across.
- Individually, tightly mounted retroreflectors act as a large self-compensating mirror surface.
- Variety of sizes and custom mirror coatings available.
- PLX is a registered ISO 9001 company.

Standard Retroreflector Arrays are comprised of individual 2.5" (63mm) clear aperture hollow retroreflectors of either 5.0 or 20.0 arc seconds maximum deviation.

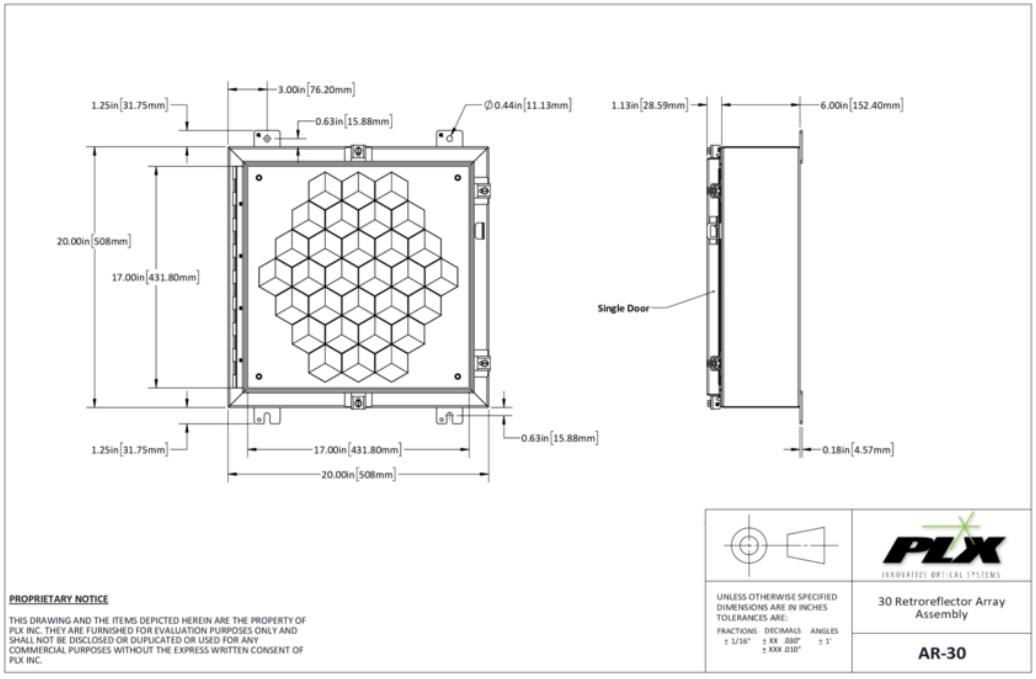
We individually mount the retroreflectors on an aluminum plate, spaced very tightly together so that the array acts as a large self-compensating mirror surface. Individual retroreflectors can be replaced if damaged. The plate is shock mounted in a durable steel housing with a single protective door.

PLX can create a customized Array for your application

Arrays can vary in size from a few inches in diameter to several feet across. We can provide individual retroreflectors in the array in any size, with accuracies of better than 1 arc second maximum deviation. Custom mirror coatings are available for specific wavelengths and high power laser applications.

Specification Chart				
Model	Number of Retros	Accuracy (arc.sec.)	Reflective Area(in^2 /cm^2 .)	Weight (lbs./kg.)
AR-30	30	5-20	175/1129	50/23
AR-60	60	5-20	350/2258	70/32

Diagram:


3.00in[76.20mm]
1.25in[31.75mm]
0.63in[15.88mm]
Ø0.44in[11.13mm]
20.00in[508mm]
17.00in[431.80mm]
1.25in[31.75mm]
17.00in[431.80mm]
20.00in[508mm]
0.63in[15.88mm]
1.13in[28.59mm]
6.00in[152.40mm]
Single Door
0.18in[4.57mm]
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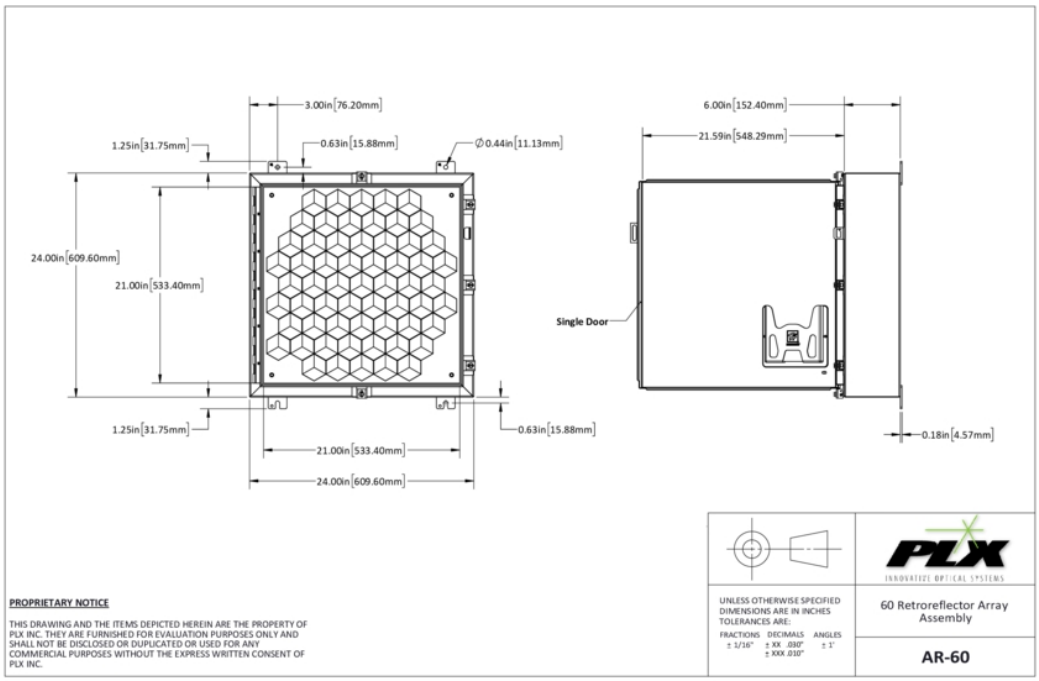
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± 1/16" DECIMALS ± XX .030" ± XXX .010" ANGLES ± 1°
INNOVATIZE OPTICAL SYSTEMS
30 Retroreflector Array Assembly
AR-30


3.00in[76.20mm]
1.25in[31.75mm]
0.63in[15.88mm]
Ø0.44in[11.13mm]
24.00in[609.60mm]
21.00in[533.40mm]
1.25in[31.75mm]
21.00in[533.40mm]
24.00in[609.60mm]
0.63in[15.88mm]
6.00in[152.40mm]
21.59in[548.29mm]
Single Door
0.18in[4.57mm]
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