

## Polygon Scan Head - Model A



FL 165 mm



FL 256 mm

**Up to 400 meters/second with linear scan speed**  
**Up to 300 mm wide line scan**

This compact, low cost, Polygon Scan Head is designed for laser cleaning and surface treatment on a moving target. It is light enough for handheld use. It is compact enough to fit in tight spaces. With a 9mm aperture, it is rated for up to 300W of laser power at 1064 nm. In spite of the blazing fast speed, the scan head consumes less than 10 watts due to its polygon based scanner! And, polygon scanning always scans at a known (user selectable) constant speed. Owing to the high quality F-Theta lenses and the constant scan speed, laser scanning is ALWAYS uniform across the entire scan width! The Polygon Scan Head includes a CDA purge port to keep the optics clean when operating in a dirty environment.

Now, **POLYGON SPEED** is affordable with this Polygon Scan Head!

# Polygon Scan Head - Model A specifications

Order with 245 mm or 165 mm Focal Length F-Theta lens

Aperture: 9 mm

Wavelength: 1064 nm

Max speed on target:

FL254mm 400 Meters/Second

FL165mm 240 Meters/Second

Scan rate: 133 to 667 Hz

Max scan length with 6 mm beam:

FL254mm 300 mm

FL165mm 180 mm

Spot size on target with 6 mm beam:

FL254mm 42 micron

FL165mm 27 micron

Maximum average laser power: 300W

CDA purge port for dirty environments

Dimensions:

FL254 157 mm W x 116 mm H x 248 mm L

FL165 157 mm W x 116 mm H x 224 mm L

Weight:

FL254 3.5 Kg

FL165 2.7 Kg

USB: control of scan speed and scan width

DB25: 24VDC in & laser control out

Ship/Storage: -20C to +60C 10-90% RH

Operating: 15C to 40C, 15-85% RH



Precision Laser Scanning, LLC

25750 North 82nd Street

Scottsdale, Arizona 85255 USA

TEL 1-480-515-1643

info@precisionlaserscanning.com

[www.precisionlaserscanning.com](http://www.precisionlaserscanning.com)

Specifications subject to change without notice.

21JAN22