

**Product Description:**

Carmanhaas Laser marking can be applied to the marking of all non-transparent materials. General optical system: Expanding the beam through the beam expander to improve the divergence angle, after the beam combines the indicator light into the galvanometer system for beam deflection and scanning, finally, the workpiece is scanned and focused by the F-THETA scan lens.

Laser marking optical components mainly include beam expander and F-THETA scan lens. The role of the beam expander is to enlarge the beam diameter and reduce the beam divergence angle. F-Theta scan lens achieves uniform focusing of the laser beam.

## F-theta Lens

Own unique designs with different focal length

Getting a smaller spot size what you demand



### Detail Image



## Technical Parameters:

### Fiber Laser F-Theta Scan Lens (1064nm)

#### F-Theta Lens

Part Description	FL (mm)	Scan Field (mm)	Max Entrance Pupil (mm)	Working Distance (mm)	Mounting Thread
SL-1064-50-80	80	50*50	12	91	M85*1
SL-1064-70-100	100	70*70	12	108.3	M85*1
SL-1064-110-160	160	110*110	12	170.2	M85*1
SL-1064-150-210	210	150*150	12	240.3	M85*1
SL-1064-175-254	254	175*175	14	295.4	M85*1
SL-1064-200-290	290	200*200	14	314.9	M85*1
SL-1064-220-330	330	220*220	14	343.7	M85*1
SL-1064-270-380	380	270*270	14	397.1	M85*1
SL-1064-300-420	420	300*300	14	437.1	M85*1
SL-(1030-1090)-175-254-(20CA)	254	175*175	20	278.2	M85*1
SL-1064-400-525-(20CA)	525	400*400	20	567	M85*1
SL-1064-450-650-(20CA)	650	450*450	20	720	M85*1
SL-1064-560-800-(20CA)	800	560*560	20	861	M85*1
SL-(1030-1090)-116-165-(12CA)	165	116*116	12	187.6	M85*1
SL-(1030-1090)-112-160	160	112*112	10	188.6	M85*1

### UV Laser F-Theta Scan Lens (355nm)

#### 355nm F-Theta Lens

Part Description	Focal Length (mm)	Scan Field (mm)	Max Entrance Pupil (mm)	Working Distance (mm)	Mounting Thread
SL-355-70-100	100	70*70	10	134	M85*1
SL-355-110-170	170	110*110	10	217.6	M85*1
SL-355-150-210	210	150*150	10	249	M85*1
SL-355-175-254	254	175*175	10	306.7	M85*1
SL-355-220-330	330	220*220	10	384.2	M85*1
SL-355-300-420	420	300*300	10	482.3	M85*1
SL-355-520-750	750	520*520	10	824.4	M85*1
SL-355-610-840-(15CA)	840	610*610	15	910	M85*1
SL-355-800-1090-(18CA)	1090	800*800	18	1193	M85*1

### Green Laser F-Theta Scan Lens (532nm)

532nm F-Theta Lens

Part Description	Focal Length (mm)	Scan Field (mm)	Max Entrance Pupil (mm)	Working Distance (mm)	Mounting Thread
SL-532-40-65	65	40*40	10	73.5	M55*1
SL-532-70-100	100	70*70	12	114	M85*1
SL-532-110-160	160	110*110	12	180	M85*1
SL-532-150-210	210	150*150	12	232.5	M85*1
SL-532-175-254	254	175*175	12	287	M85*1
SL-532-220-330	330	220*220	12	355	M85*1
SL-532-350-500	500	350*350	12	539	M85*1
SL-532-165-255-(20CA)	255	165*165	20	294	M85*1
SL-532-235-330-(16CA)	330	235*235	16	354.6	M85*1

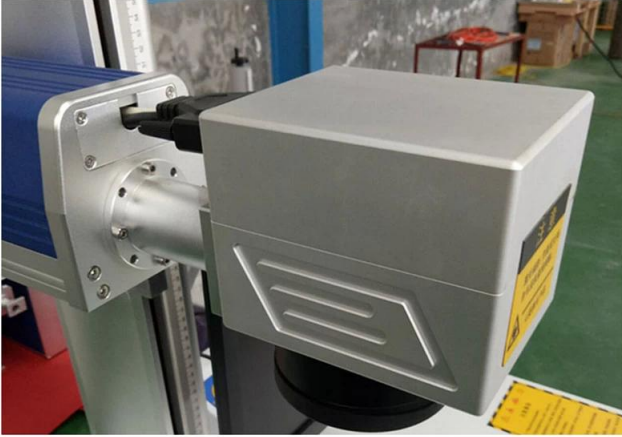
Application:

## PRODUCT DETAILS

HIGH SPEED  
GALVO LENS

NO.1

SMALL SIZE, FRIENDLY INTERFACE  
IN ORDER TO IMPROVE THE QUALITY OF EXPORT,  
USE NEW TECHNOLOGY, NEW CRAFT, IN THE GALVO  
LENS SCANNING SYSTEM, GRAPHIC IS GOOD, NO DISTORION ETC...

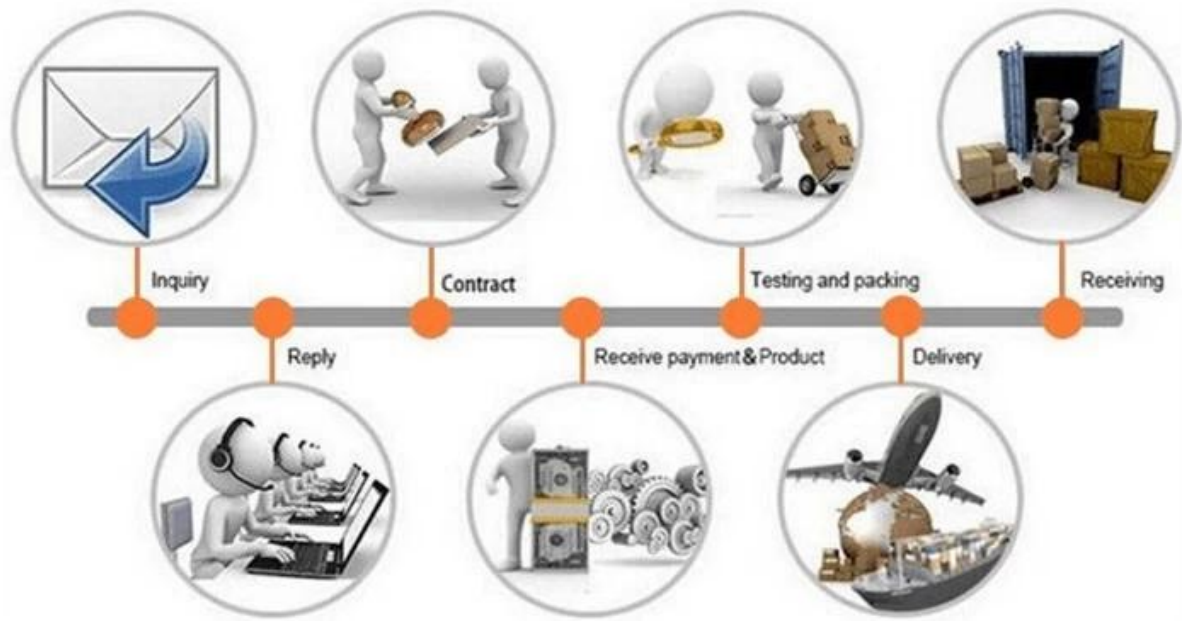


FILED LENS SCANNING SYSTEM TO ADOPT NEW TECHNOLOGY  
IMPORTED SCANNING SYSTEM MAKES THE SCANNING SPEED IS  
UP TO 7000 MM/S

FILED LENS



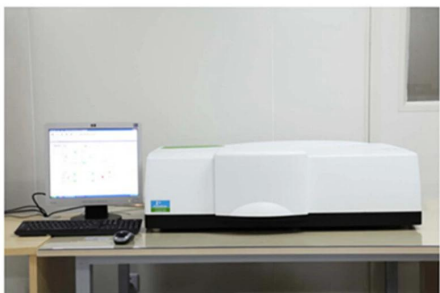




**Company Information:**



**TRIOPTICS OptiSpheric 2000 AF**  
 ---Testing EFL, R, Centering Error, Wedge Angle, BFL, MTF



**PerkinElmer Lambda 950**---Testing Transmission and Reflectivity



**Carmanhaas Coating Machine**

## Laser Exhibition:



## Return Policy:

Should returns be required:

Step 1) Contact us with this website email.

Step 2) Provide as much detail as possible about the problem you are having.

Step 3) Authorization to return the item will be issued.

Step 4) Return the item for the agreed replacement or refund.

## FAQ:

Q1. Are you a manufacturer?

A1: Yes, we are professional and experienced manufacturer with our own molds and production lines.

Q2. How about quality of products?

A2: Our technicians and QC teams test the products one by one using aging line, professional devices and instruments to ensure the quality for all products.

Q3. How about price?

A3: We are a manufacturer and always offer our customers the most competitive prices.

Q4. How to place an order?

A4: Contact with online service, or sent email to us directly, we will reply to you with product price, specifications, packing etc. soon. Thank you.