

Schlieren Imaging System



Schlieren system includes two aluminized parabolic mirrors over-coated with silicon monoxide and mounted in gimbal mounts, Pointed LED light Source, Knife edge adjuster and a 5MP USB3.0 digital camera (Or high speed camera). Gimbal mounts for the parabolic mirrors eliminate unwanted linear beam translation during adjustment.

Parts of Schlieren System

1. Bread Board
2. Gimbal Mount with Parabolic Mirror
3. LED with Power Supply
4. Gimbal Mount with Parabolic Mirror
5. Laptop
6. Knife Edge
7. Camera with Zoom Lens

Applications

- Wind Tunnel research
- Fluid and air current flow
- Flame Analysis
- Heat Convection Visualization
- Ultrasound visualization

Components and Specifications

1. Parabolic Mirror (Quantity: 2 Nos)

| | | |
|-------------------|---|-----------------------|
| Diameter | : | 150mm-300mm |
| Focal Length | : | 1200mm – 1500mm |
| Surface Quality | : | 40 – 20 (Scratch-dig) |
| Material | : | Borofloat |
| Coating | : | Protective aluminium |
| Reflectivity Ravg | : | >88% @ 450-2000nm |



2. Gimbal Mirror Mount for Parabolic Mirror (Quantity: 2 Nos)

| | | |
|-------------------|---|-----------------|
| Coarse travel | : | 360 degree |
| Fine travel | : | +/- 6 degree |
| Travel range | : | 360 degree |
| Linear resolution | : | 0.01mm |
| Sensitivity | : | 4 arc sec |
| Mounting holes | : | M6 slots |
| Construction | | |
| Material | : | Aluminium alloy |
| Finish | : | Black anodized |



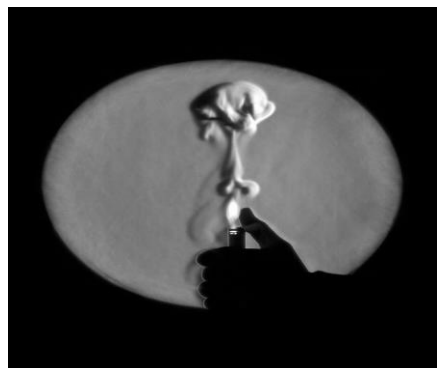
3. LED point light source with variable power supply & condenser optics (Quantity: 1 Set)

| | | |
|-----------|---|----------------------|
| LED | : | 3W high bright white |
| Intensity | : | adjustable |
| Condenser | | |
| Optics | : | Multi element design |



4. Knife Edge with Precision Mount (Quantity: 1 Set)

Adjustable in all 3-Axis



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