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# 40mm Sq x 275mm FL 14° Off-Axis Parabolic Mirror



High Performance Off-Axis Parabolic Mirrors

Stock **#90-978** **1 In Stock**

-

1

+

A\$2,216<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | A\$2,216.00 each              |
| Qty 10-25      | A\$1,995.20 each              |
| Qty 26-49      | A\$1,888.00 each              |
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Product Downloads

| General                          |                           |
|----------------------------------|---------------------------|
| Off-Axis Parabolic Mirror        | Type:                     |
| Physical & Mechanical Properties |                           |
| 40.0 x 40.0                      | Dimensions (mm):          |
| 16.00                            | Center Thickness CT (mm): |

|       |                                  |
|-------|----------------------------------|
| ±0.2  | Center Thickness Tolerance (mm): |
| 90.00 | Clear Aperture (%):              |

|           |                             |
|-----------|-----------------------------|
| +0.0/-0.2 | Dimensional Tolerance (mm): |
| 40.00     | Length (mm):                |

|       |             |
|-------|-------------|
| 40.00 | Width (mm): |
|-------|-------------|

|                    |                          |
|--------------------|--------------------------|
| Optical Properties |                          |
| ±2.0               | Y Offset Tolerance (mm): |
| Metal              | Coating Type:            |

|               |                    |
|---------------|--------------------|
| Bare Aluminum | Coating:           |
| 14            | Off-Set Angle (°): |

|             |                                     |
|-------------|-------------------------------------|
| 279.10      | Effective Focal Length EFL (mm):    |
| Float Glass | Substrate: <input type="checkbox"/> |

|                                     |                               |
|-------------------------------------|-------------------------------|
| R <sub>abs</sub> >85% @ 250 - 700nm | Coating Specification:        |
| 275.0                               | Parent Focal Length PFL (mm): |

|       |                                     |
|-------|-------------------------------------|
| ±0.5% | Parent Focal Length Tolerance (mm): |
| λ/4   | Surface Accuracy:                   |

|        |                           |
|--------|---------------------------|
| 80-50  | Surface Quality:          |
| 558.20 | Radius of Curvature (mm): |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| <a href="#">View</a>  | Certificate of Conformance: |

## Product Details

- High Quality Glass Substrate
- λ/4 or λ/2 Surface Accuracy
- Ideal for UV and Visible Applications

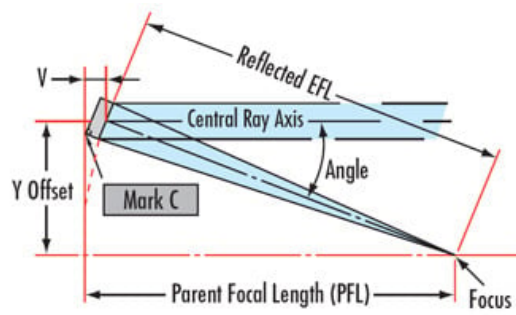
Our High Performance Off-Axis Parabolic Mirrors feature a superior surface accuracy glass substrate, making them ideal for UV and visible applications. Unlike standard parabolic mirrors, these off-axis mirrors direct and focus incident collimated light at a specific angle, allowing unrestricted access to the focal point. Typical applications include use in Czerny-Turner and Littrow spectrometer configurations, and in general collimator and beam expander setups.

High Performance Off-Axis Parabolic Mirrors have been replicated from masters which have passed stringent inspection criteria, including zonal interferometric and Foucault testing. The aspheric optical profile is holographically recorded onto the mirror substrate.

**Note:** The bare aluminum coating on these optics is delicate and can be easily scratched. If cleaning is required, non-contact methods such as compressed air or an air-blower should be used.

## Technical Information

| Parent Focal Length PFL | Reflected Effective Focal Length EFL | Y Offset | V     | Off-Set Angle | Stock No.               |
|-------------------------|--------------------------------------|----------|-------|---------------|-------------------------|
| 125mm                   | 134mm                                | 67mm     | 9mm   | 30°           | <a href="#">#90-976</a> |
| 200mm                   | 209mm                                | 85mm     |       | 24°           | <a href="#">#90-977</a> |
| 275mm                   | 279.1mm                              | 67.5mm   | 4.1mm | 14°           | <a href="#">#90-978</a> |
|                         |                                      |          |       |               | <a href="#">#90-980</a> |
|                         | 277.6mm                              | 53mm     | 2.6mm | 11°           | <a href="#">#90-979</a> |
|                         |                                      |          |       |               |                         |



## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools