



### OUTLINE

| Lens Specifications - SWIR-50 |                        |             |             |
|-------------------------------|------------------------|-------------|-------------|
| Specifications                | Value                  | 1/2"        | 1/3"        |
| Focal Length                  | f = 50mm               |             |             |
| Maximum diameter (Ratio)      | F = 1.4:1 ~ 16 ~ Close |             |             |
| Picture Size                  | 12.8 x 9.6mm           | 8.8 x 6.6mm | 6.4 x 4.8mm |
| Angle - Vertical              | 10.8 deg.              | 7.54deg.    | 5.49 deg.   |
| Horizontal                    | 14.5 deg.              | 10.0 deg.   | 7.31deg.    |
| Diagonal                      | 18.0 deg.              | 12.5deg     | 9.12 deg.   |
| Distortion (TV)               | -0.05%                 | -0.05%      | -0.02%      |
| Minimum Focus Distance        | 0.5m                   |             |             |
| Flange Back                   | 17.526mm in air        |             |             |
| Back Focus                    | 14.8mm in air          |             |             |
| Filter Screw Size             | M40.5 x 0.5            |             |             |
| Effective Diameter - Front    | 35.0mm dia.            |             |             |
| - Rear                        | 15.5mm dia.            |             |             |
| Mount                         | C-Mount                |             |             |
| Exit Pupil                    | -44.4mm dia.           |             |             |
| Temperature Range             | - 10 ~ + 45 deg. C     |             |             |
| Strong Temperature Range      | - 40 ~ + 60 deg. C     |             |             |

|   |            |
|---|------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |            |
| SCALE:  | 1.5:1      |
| WEIGHT:   | See Table  |
| DR:   | R. PODLENA |
| CH:   |            |
| PROJECT #:  |            |
| DATE DR:  | 6/3/2008   |

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0.0 inch 1.0  
0.0 mm 25.0

DO NOT SCALE DRAWING

**NAVITAR**  
ROCHESTER, NEW YORK

LENS, 50mm FL, 1", f/1.4, 700-1900nm

|      |          |                |          |
|------|----------|----------------|----------|
| SIZE | <b>B</b> | <b>SWIR-50</b> | REV      |
|      |          | SHEET 1 OF 1   | <b>A</b> |