

# MICROSCOPE CAMERA SELECTION REFERENCE

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BEST for:

| Make   | Model                           | MP      | Resolution | Sensor type           | Pixel Size | Cooled | Pixel Shift   | Fluorescence | Brightfield | Darkfield | Phase | Nomarski (DIC) | POL | Coupler               |
|--|---------------------------------|---------|------------|-----------------------|------------|--------|---------------|--------------|-------------|-----------|-------|----------------|-----|-----------------------|
| Lumenera Infinity 1 Scientific CMOS Digital Cameras  |                                 |         |            |                       |            |        |               |              |             |           |       |                |     |                       |
| Lumenera   | <a href="#">Infinity 1-1M</a>   | 1.3 MP  | 1280x1024  | ½" CMOS <b>mono</b>   | 5.2um      | N      | N             |              | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 1-2CB</a>  | 2 MP    | 1600x1200  | ½" CMOS color         | 4.2um      | N      | N             |              | •           | •         | •     |                |     | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 1-3C</a>   | 3.1 MP  | 2048x1536  | ½" CMOS color         | 3.2um      | N      | N             |              | •           | •         |       |                |     | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 1-5C</a>   | 5 MP    | 2592x1944  | 0.4" CMOS color       | 2.2um      | N      | N             |              | •           | •         |       |                |     | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 1-5M</a>   | 5 MP    | 2592x1944  | 0.4" CMOS <b>mono</b> | 2.2um      | N      | N             |              | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera Infinity 2 Scientific CCD Digital Cameras   |                                 |         |            |                       |            |        |               |              |             |           |       |                |     |                       |
| Lumenera   | <a href="#">Infinity 2-1C</a>   | 1.4 MP  | 1392x1040  | ½" CCD color          | 4.65um     | N      | N             |              | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 2-1M</a>   | 1.4 MP  | 1392x1040  | ½" CCD <b>mono</b>    | 4.65um     | N      | N             | MOD          | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 2-2C</a>   | 2 MP    | 1616x1216  | 0.55" CCD color       | 4.4um      | N      | N             |              | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 2-2M</a>   | 2 MP    | 1616x1216  | 0.55" CCD <b>mono</b> | 4.4um      | N      | N             | MOD          | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 2-3C</a>   | 3.3 MP  | 2080x1536  | 0.55" CCD color       | 3.45um     | N      | N             |              | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">Infinity 2-5C</a>   | 5 MP    | 2448x2048  | ⅔" CCD color          | 3.45um     | N      | N             |              | •           | •         | •     | •              | •   | <a href="#">0.63x</a> |
| Lumenera   | <a href="#">Infinity 2-5M</a>   | 5 MP    | 2448x2048  | ⅔" CCD <b>mono</b>    | 3.45um     | N      | N             |              | •           | •         | •     | •              | •   | <a href="#">0.63x</a> |
| Lumenera Infinity 3 Research CCD Digital Cameras <span style="float: right;">Either 0.63x or 0.67x suitable for ⅔" models</span> |                                 |         |            |                       |            |        |               |              |             |           |       |                |     |                       |
| Lumenera   | <a href="#">Infinity 3-1C</a>   | 1.4 MP  | 1392x1040  | ⅔" CCD color          | 6.45um     | Y      | N             | Trace        | •           | •         | •     | •              | •   | <a href="#">0.63x</a> |
| Lumenera   | <a href="#">Infinity 3-1M</a>   | 1.4 MP  | 1392x1040  | ⅔" CCD <b>mono</b>    | 6.45um     | Y      | N             | Trace        | •           | •         | •     | •              | •   | <a href="#">0.63x</a> |
| Lumenera   | <a href="#">Infinity 3-1URc</a> | 1.4 MP  | 1392x1040  | ⅔" CCD color          | 6.45um     | N      | N             | Low          | •           | •         | •     | •              | •   | <a href="#">0.63x</a> |
| Lumenera   | <a href="#">Infinity 3-1URm</a> | 1.4 MP  | 1392x1040  | ⅔" CCD <b>mono</b>    | 6.45um     | N      | N             | Low          | •           | •         | •     | •              | •   | <a href="#">0.63x</a> |
| Lumenera   | <a href="#">Infinity 3-3URc</a> | 2.8 MP  | 1936x1456  | ⅔" CCD color          | 4.54um     | N      | N             | Low          | •           | •         | •     | •              | •   | <a href="#">0.63x</a> |
| Lumenera   | <a href="#">Infinity 3-3URm</a> | 2.8 MP  | 1936x1456  | ⅔" CCD <b>mono</b>    | 4.54um     | N      | N             | Low          | •           | •         | •     | •              | •   | <a href="#">0.63x</a> |
| Lumenera   | <a href="#">Infinity 3-6URc</a> | 6 MP    | 2752x2192  | 1" CCD color          | 4.54um     | N      | N             | Low          | •           | •         | •     | •              | •   | <a href="#">1x</a>    |
| Lumenera   | <a href="#">Infinity 3-6URm</a> | 6 MP    | 2752x2192  | 1" CCD <b>mono</b>    | 4.54um     | N      | N             | Low          | •           | •         | •     | •              | •   | <a href="#">1x</a>    |
| Lumenera Infinity 4 Research CCD Digital Cameras   |                                 |         |            |                       |            |        |               |              |             |           |       |                |     |                       |
| Lumenera   | <a href="#">Infinity 4-11C</a>  | 10.7 MP | 6464x4864  | 35mm CCD color        | 9um        | N      | N             | Trace        | •           | •         | •     | •              | •   | <b>special</b>        |
| Lumenera   | <a href="#">Infinity 4-11M</a>  | 10.7 MP | 6464x4864  | 35mm CCD <b>mono</b>  | 9um        | N      | N             | Trace        | •           | •         | •     | •              | •   | <b>special</b>        |
| Lumenera Infinity X-32 Scientific CCD Digital Cameras  |                                 |         |            |                       |            |        |               |              |             |           |       |                |     |                       |
| Lumenera   | <a href="#">Infinity X-32C</a>  | 32 MP   | 4008x2672  | 0.55" CCD color       | 4.4um      | N      | Y -Mechanical |              | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera   | <a href="#">InfinityX-32M</a>   | 32 MP   | 4008x2672  | 0.55" CCD mono        | 4.4um      | N      | Y -Mechanical | MOD          | •           | •         | •     | •              | •   | <a href="#">0.5x</a>  |
| Lumenera Infinity HD Scientific CMOS Digital Cameras   |                                 |         |            |                       |            |        |               |              |             |           |       |                |     |                       |
| Lumenera   | <a href="#">Infinity HD</a>     | 2.1 MP  | 1920x1080  | ⅓" CMOS color         | 2.7um      | N      | N             |              | •           | •         | •     |                |     | <a href="#">0.3x</a>  |
| Lumenera Infinity LiteB Academic CMOS Digital Cameras  |                                 |         |            |                       |            |        |               |              |             |           |       |                |     |                       |
| Lumenera   | <a href="#">Infinity LiteB</a>  | 1.5 MP  | 1440x1080  | ⅓" CMOS color         | 4.2um      | N      | N             |              | •           | •         |       |                |     | <a href="#">0.3x</a>  |

## DEFINITIONS:

- = well suited for the application, **MOD** = suitable for moderate to bright fluorescence, **Trace** = best for very low to trace level fluorescence capture, **Low** = suitable for low level (eyepiece visible)
- Mono**chrome sensors typically have 2x greater sensitivity than color (due to no Bayer mosaic filter) and may be better suited in some applications offering better spatial detail