Astronomy Highlights

SBIG, QSI and FLI sizes in stock

Extremely durable coatings withstand humidity changes and extreme temperature fluxes and remain spectrally accurate in CWL and band pass adherence

No reflections leading to image distortions or ‘back reflections’

Other Offerings

H-Beta, IR Long Pass Filters

Capable of manufacturing large filters for large detectors: 50mm x 50mm, 65mm up to 76.2mm and 101.6mm square

All filters manufactured in Vermont

Andromeda Galaxy (M31) captured with LRGB filters and Orion Nebula Messier 42 (M42) captured with H-α, SII and OIII narrowband filters from Chroma. Images courtesy David Shay, West Boylston, MA
Chroma Technology is an employee-owned company. We specialize in the design and manufacture of sputtered optical filters and coatings for applications that require the greatest precision in color separation, optical quality and signal purity. Our astronomical filters are used worldwide in research and amateur applications. We are as comfortable designing and manufacturing custom filters as we are our catalog items.
Astrophotography
Filters & Sets

**LRGB Filter Sets**
Chroma’s complete LRGB filter sets include four individual filters—luminance, red, green, and blue—and are available in the listed configurations:

- **Mounted Sets**
  - LRGB-1.25" in a 1.25" threaded ring $475.00
  - LRGB-2" in a 2" M48 threaded ring $900.00

- **Unmounted Sets**
  - LRGB-31 31mm diameter $495.00
  - LRGB-36 36mm diameter $595.00
  - LRGB-50 50mm diameter $875.00
  - LRGB-50S 50mm x 50mm square $1,085.00
  - LRGB-65S 65mm x 65mm square $2,595.00

**H-\(\alpha\)LRGB Filter Sets**
Chroma’s complete H-\(\alpha\)LRGB filter sets include five individual filters—H-Alpha, luminance, red, green, and blue—and are available in the listed configurations:

- **Mounted Sets**
  - H-\(\alpha\)LRGB-1.25" in a 1.25" threaded ring $725.00
  - H-\(\alpha\)LRGB-2" in a 2" M48 threaded ring $1,350.00

- **Unmounted Sets**
  - H-\(\alpha\)LRGB-31 31mm diameter $755.00
  - H-\(\alpha\)LRGB-36 36mm diameter $925.00
  - H-\(\alpha\)LRGB-50 50mm diameter $1,305.00
  - H-\(\alpha\)LRGB-50S 50mm x 50mm square $1,525.00
  - H-\(\alpha\)LRGB-65S 65mm x 65mm square $3,495.00

**Common Specifications**
- Durable sputter coatings
- Parallelism: <30 arcsec
- Thickness: 3.0 +/-0.05mm
- Filters designed for use with CCD and for f/4.0 or slower
- Transmitted wavefront better than 0.25 waves/inch

Call +1-800-824-7662 for information on other sizes or other filter designs.
<table>
<thead>
<tr>
<th>Individual Filters</th>
<th>Mounted</th>
<th>Unmounted</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>H-Alpha 8nm Narrow Band</strong></td>
<td>$265</td>
<td>$475</td>
</tr>
<tr>
<td>T: ≥ 94%@656.3nm, FWHM = 7.7nm</td>
<td>$275</td>
<td>$355</td>
</tr>
<tr>
<td><strong>SII 8nm Narrow Band</strong></td>
<td>$265</td>
<td>$475</td>
</tr>
<tr>
<td>T: ≥ 94%@672.4nm, FWHM = 7.7nm</td>
<td>$275</td>
<td>$355</td>
</tr>
<tr>
<td><strong>OIII 7nm Narrow Band</strong></td>
<td>$265</td>
<td>$475</td>
</tr>
<tr>
<td>T: ≥ 94%@500.7nm, FWHM = 7.1nm</td>
<td>$275</td>
<td>$355</td>
</tr>
<tr>
<td><strong>Jovian Methane</strong></td>
<td>$265</td>
<td>$475</td>
</tr>
<tr>
<td>T: ≥ 96%@868 nm, FWHM = 18 nm</td>
<td>$275</td>
<td>$355</td>
</tr>
<tr>
<td><strong>LoGlow Light Pollution Filter</strong></td>
<td>$195</td>
<td>$425</td>
</tr>
<tr>
<td>T: ≥ 94% avg. across visible passbands;</td>
<td>$225</td>
<td>$285</td>
</tr>
<tr>
<td>Blocking ≥ OD1.4@ metal-halide and vapor lamp lines</td>
<td>$385</td>
<td>$425</td>
</tr>
<tr>
<td><strong>Luminance</strong></td>
<td>$125</td>
<td>$250</td>
</tr>
<tr>
<td>T: ≥ 92% avg., 86% min. 385-684nm</td>
<td>$130</td>
<td>$155</td>
</tr>
<tr>
<td><strong>Red</strong></td>
<td>$125</td>
<td>$250</td>
</tr>
<tr>
<td>T: ≥ 92% avg., 88% min. 603-684nm</td>
<td>$130</td>
<td>$155</td>
</tr>
<tr>
<td><strong>Green</strong></td>
<td>$125</td>
<td>$250</td>
</tr>
<tr>
<td>T: ≥ 92% avg., 88% min. 500-575nm</td>
<td>$130</td>
<td>$155</td>
</tr>
<tr>
<td><strong>Blue</strong></td>
<td>$125</td>
<td>$250</td>
</tr>
<tr>
<td>T: ≥ 92% avg., 88% min. 380-500nm</td>
<td>$130</td>
<td>$155</td>
</tr>
<tr>
<td><strong>Clear</strong></td>
<td>$85</td>
<td>$185</td>
</tr>
<tr>
<td>T: ≥ 97% avg., 94% min. 380-1000nm</td>
<td>$90</td>
<td>$110</td>
</tr>
</tbody>
</table>

Typical Spectral Performance

* H-Alpha filters are not for solar observation. All sizes are in mm. 27.06 filters are available in 31.75mm threaded ring at $10/filter.
### Photometry Filters & Sets

#### Individual Filters

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Price Unmounted (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U-Band Bessell</strong></td>
<td>383/63</td>
<td>$137</td>
</tr>
<tr>
<td><strong>B-Band Bessell</strong></td>
<td>433/100</td>
<td>$137</td>
</tr>
<tr>
<td><strong>V-Band Bessell</strong></td>
<td>533/85</td>
<td>$110</td>
</tr>
<tr>
<td><strong>R-Band Bessell</strong></td>
<td>628/124</td>
<td>$110</td>
</tr>
<tr>
<td><strong>I-Band Bessell</strong></td>
<td>875/300</td>
<td>$110</td>
</tr>
</tbody>
</table>

**Common Specifications**

- Durable, anti-reflective coatings on both exterior surfaces over applicable transmission range
- Thickness: 4.9 +/-0.05mm, parfocal +/-0.2mm

Call +1-800-824-7662 for information on other sizes or other filter designs.
UBVRI Filter Sets

Call for full pricing: +1-800-824-7662

Wavelength Range
200 – 3000nm

Analysis
T% wavefront measurement <370 – >1000nm
Spectral evaluations at LN2
Spectral evaluations to 3200nm

 Manufacturing
Grind and Polish to < 0.25 waves T%: 632.8nm

Coating Processes
E-Beam / IAD Oxides
Sputtered Oxides
Hard Fluorides (E-Beam)

Design
Custom filters
Modeling spectral shift at angle and/or f/#
Halo minimization

Key Filter Product Lines
Low-light fluorescence microscopy and cytometry
Spectrographic imaging in optical microscopy
Laser-based confocal and multi-photon instrumentation
Raman spectroscopy

Call for full set pricing: +1-800-824-7662
About Chroma
Chroma was organized in 1991 by several talented individuals who wanted to create a working environment entirely different from the typical corporate structure. Chroma Technology is 100% employee-owned. All manufacturing occurs in the United States, with worldwide distribution and sales support.

Easy Online Ordering
Visit www.chroma.com to order online.

Ordering by Phone
Call +1-802-428-2500 or +1-800-824-7662

Lifetime Warranty
Terms:
Net 30 days
FOB: Chroma Technology, Bellows Falls, VT