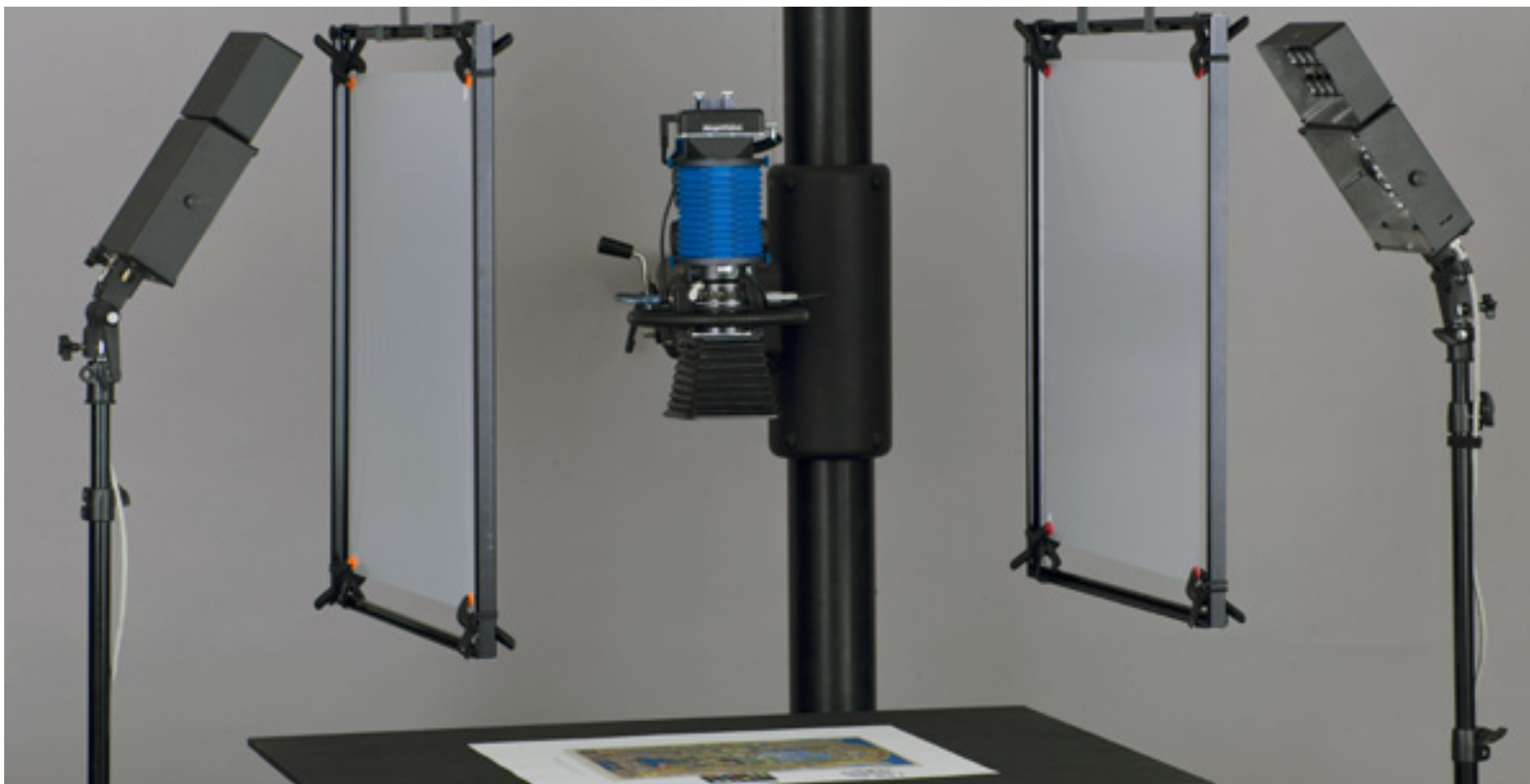


Using the MegaVision EV Multispectral Camera as a Spectrophotometer

Richard Adams and Henry Wilhelm

Ryerson GCM and Wilhelm Imaging Research

The MegaVision EV



The MegaVision EV

- 50 MP digital camera back
- 8176 × 6132 pixels, 6.0 μm pixel size
- MegaVision 12-mm f/4.5 hyperspectral lens (350–1000 nm)
- Capture rate: 1 image/2 sec.
- Cost: \$125,000 USD
- Number installed: ~40
- Number of trained operators: ~50

Narrow-Band LED Illumination

- UV 365, 395 nm
- Visible 420, 445, 470, 500, 520, 560, 590, 620, 630, 650 nm
- IR 700, 735, 780, 860, 940, 1050 nm

Projects

- fade resistance of fluorescent inks and 3D-printed objects



Projects

- color permanence of 3D printed objects

