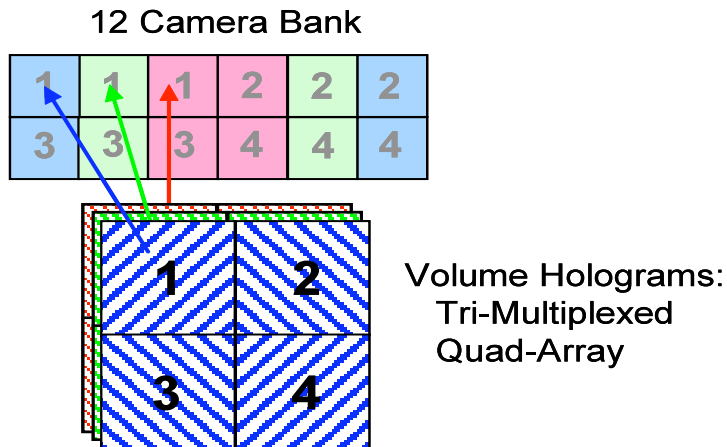




Volume Holographic Gratings for Improved Beamsplitting



Need: Smaller, more efficient beamsplitting solution for use in Multi-Spectral Passive Anti-Submarine Warfare System.

Technology Solution: Multiplexing volume holographic grating elements results in a significant reduction in size and an increase in optical efficiency compared to the current system. Only the RL Associates volume holographic optical splitter has the ability to tailor the bandpass, diffraction angle and the output beam.

Capabilities:

Operating spectrum: 450-850 nm
Efficiency: 65-75%
Spectral channels: 12
Out of band rejection: 10^{-4}
Bandwidth/channel: ~ 20 nm
System aperture: 75 – 100 mm
Field of view: 20-25°
Grating Aperture: 12 X 12 mm

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