HOW OPTICAL IMAGING SYSTEMS WORK

L3HARRIS™

L3Harris has been helping provide detailed images of the far reaches of space and Earth for more than 50 years.

We play a key role in developing space telescopes that are designed to answer some of the most enduring mysteries of the universe, like dark matter and exoplanets. We continue to provide high-quality technology for Earth-imaging satellites that influences actionable decision-making.

Notable Optical Imaging Systems Featuring L3Harris:

SPACE TELESCOPES

> Hubble Space Telescope – 1990
> Chandra X-Ray Observatory – 1999
> James Webb Space Telescope – 2020s
> Wide Field Infrared Survey Telescope – 2020s

EARTH-IMAGING SATELLITES

> IKONOS – 1999
> WorldView-2 – 2009
> WorldView-3 – 2014

1. **Incoming light** from the object enters the telescope barrel
2. The light reflects off the **primary mirror**
3. The light is then directed to the **secondary mirror**
4. The image of the object is formed onto the sensor by the **corrector optics package**
5. The image is converted to digital data by the **sensor** or **focal plane**

L3Harris.com | #L3Harris