Canon

LIDE™

TECHNOLOGY BRIEF

A history of innovation in optics and imaging.

More than 60 years ago, Canon helped modernize the world through numerous innovations in high-quality optics and imaging technology—from our first 35mm camera to our present day digital cameras, copiers, facsimiles and desktop printers. Canon's patented LED InDirect Exposure (LIDE) technology represents the latest breakthrough—a dramatic advancement in scanning resolution and quality, and a significant improvement over most other scanning technologies.

The LIDE Advantage:

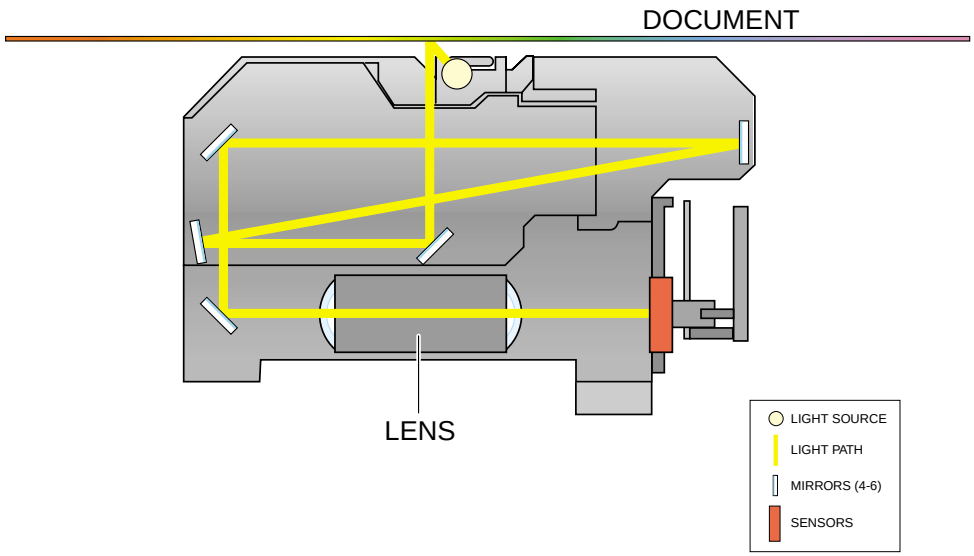
- **Crystals and prisms produce a sharper, brighter quality of light.**
- **A shorter, more direct light path reduces image distortion.**
- **Fewer moving parts allow for a smaller, lighter-weight design—just over one inch high.**
- **Just a single cable is required for USB and power connection, creating lower power consumption.**
- **LIDE sensors support up to 1200 dots per inch.**

LIDE technology creates better color, less distortion and lower power consumption.

LIDE image-sensor technology is part of a whole new approach to building scanners. Its benefits improve many aspects of desktop scanning, including the ability to achieve higher color fidelity and light quality; a reduction in image distortion; a smaller, lighter-weight design with fewer moving parts; and lower power consumption that enables the use of just a single cable for USB and power connection.

LIDE optical technology vs. conventional CCD-based technology.

Many scanners are designed with a charge-coupled device (CCD) sensor that uses a long, white fluorescent lamp to illuminate images. This lighting technique typically consumes a large amount of power, and the scanned image has to pass through many mirrors and lenses before becoming a digital image, increasing the chance of optical distortion and color degradation.

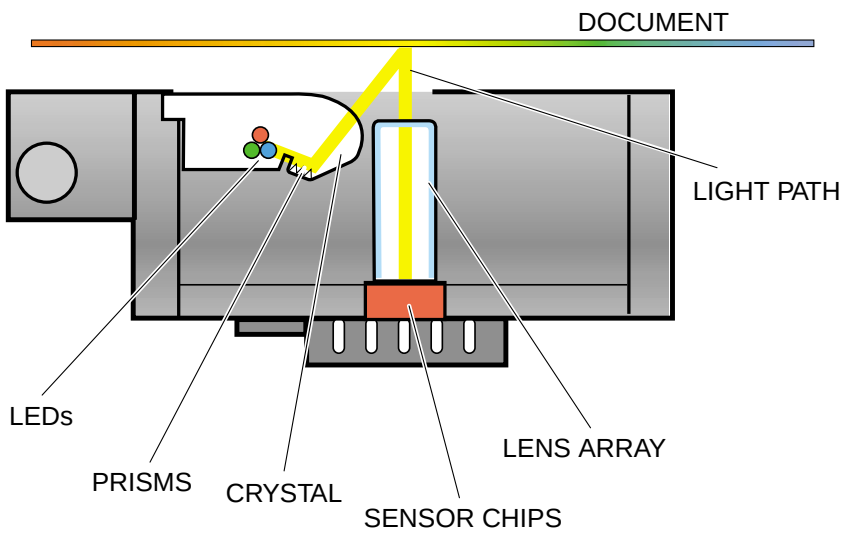


Conventional CCD Technology

LIDE vs CCD (con't)

LIDE technology uses a much more direct and accurate process than CCD technology. It uses three-color light emitting diodes (LEDs) positioned at the sensor edges to illuminate a high-quality crystal. The prism inside the crystal distributes that light evenly, lighting the item to be scanned. The light then reflects back through a rod lens array and is imaged onto a sensor chip.

Because the light is first diffused through the crystal, it is evenly exposed across the entire scan area—minimizing fall off around the edges or "hot spots" in the middle. This simpler process, combined with fewer moving parts, means the new, smaller-designed scanner takes up less room, is lighter-weight and consumes far less power.



Canon's LIDE Optical Technology

Canon's new 'N' Series CanoScan® USB Flatbed Scanners feature the latest LIDE technology. The benefits are evident in their design: each is just over one inch high, is exceptionally compact and lightweight, and requires just a single cable for both USB and power. No bulky adapter or transformers are necessary. Additionally, because LIDE sensors support up to 1200 dots per inch, scanners with LIDE technology are able to achieve superb quality and appeal to a wider range of users.

Canon KNOW HOW™

For more information, visit our Web site at **www.ccsi.canon.com** and **www.canoscan.com.**
For a name of a dealer nearest you, call: **1-800-OK-CANON.**

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