

### Big Innovations in Small-sized Technologies.

Too often, reducing a product's size has meant reducing its performance, as well. Canon has always met this challenge head on—specifically reducing product size in order to increase its performance and usability. It's what makes such Canon products as the ELPH® series cameras and the portable BJC-50 Series Color Bubble Jet™ Printers some of the most popular and highest-performing products of their kind—in the world.

Canon has now applied this successful design strategy to its new generation of CanoScan® “N” Series scanners. The result is a line of scanners that really delivers—get high quality, high resolution, exceptional usability, an ultra-small footprint, a height of just over one inch, and the ability to use just a single cable for both power and computer connection.

### Why a Smaller Scanner Size is Better:

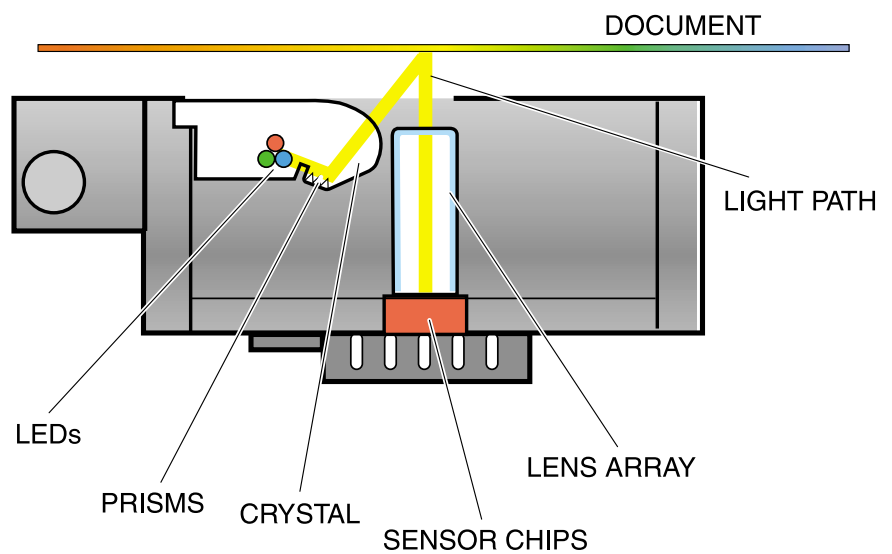
- It creates a sleeker look— with a height of just over one inch.
- It uses less power—now just a single USB cable is necessary for power *and* computer connection.
- It requires less space on the desktop.
- It makes higher-end performance available in a smaller, less expensive design.

### How Canon Created a Scanner Just Over One Inch High.

Breakthroughs and advancements on many levels contributed to Canon's new, smaller-scanner-size achievement, including the use of Contact Image Sensor (CIS) technology, a smaller motherboard, a smaller motor, and the use of software rather than firmware.

#### Compact sensor technology.

The “N” Series scanners are based on the latest CIS technology, rather than the conventional charge-coupled device (CCD) technology. CIS scanners use small LED lights to illuminate images, instead of the large fluorescent light tubes and space-consuming series of mirrors and lenses that CCD technology uses. The CIS technology eliminates the need for multiple mirrors, making the CIS process much more direct than CCD technology and requiring less space.



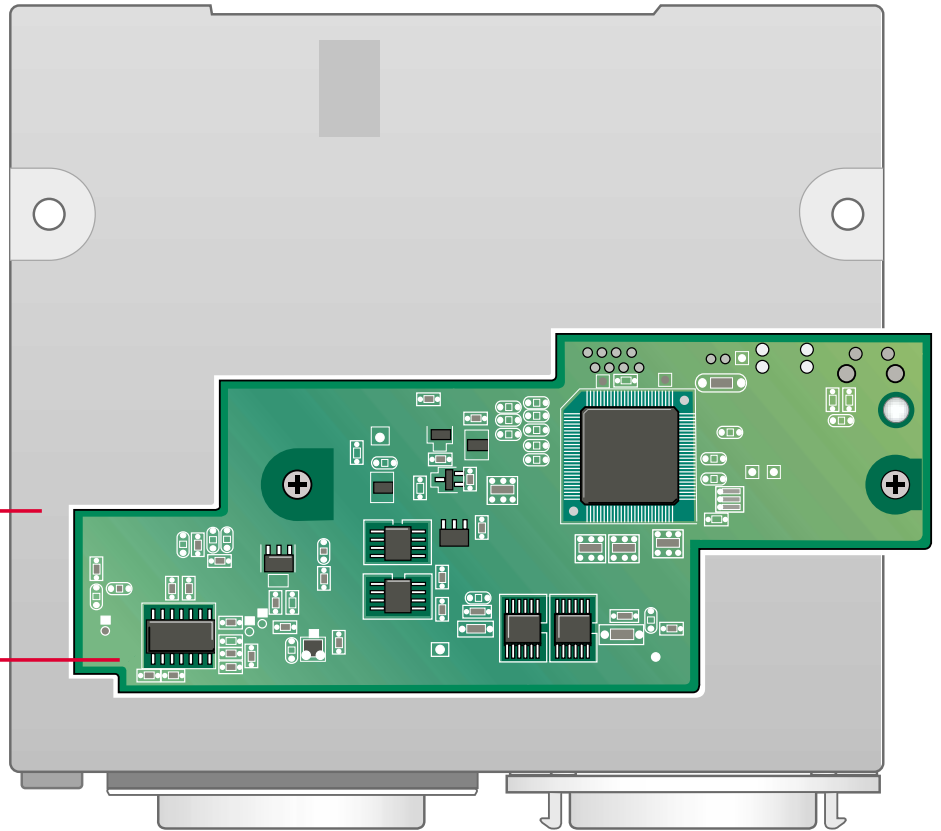
Canon's Contact Image Sensor (CIS) Technology

## Internal architecture.

Canon engineers dramatically reduced the size of the motherboard in the “N” Series scanners by making better use of its surface area. Then, they attached it to the sensor assembly, reducing the amount of space needed to house it.

TYPICAL MOTHERBOARD

CANON “N” SERIES MOTHERBOARD



## Smaller motor.

Instead of using a standard computer motor, the “N” Series scanners use a high-quality, miniaturized motor similar to those found on motorized model toys and sophisticated prototypes.



ACTUAL SIZE OF SCANNER MOTOR

A smaller motor uses less power, making it possible to use just a single USB cable for both power and computer connection. Using the computer’s power instead of a separate power source also reduces the scanner’s size and space requirement.

## Firmware to software.

Software on the host computer now replaces some of the scanner’s firmware—or controlling chips—that were once an integrated, space-consuming part of the hardware design. Eliminating those controlling chips frees up room while enhancing overall performance through more efficient software processing.

**Canon** KNOW HOW™

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