

Compact Digital Color Sensor IC

BH1745NUC

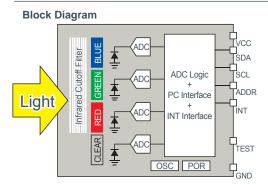


Provides high-precision operation and superior spectral sensitivity characteristics in a compact form factor

Product Outline

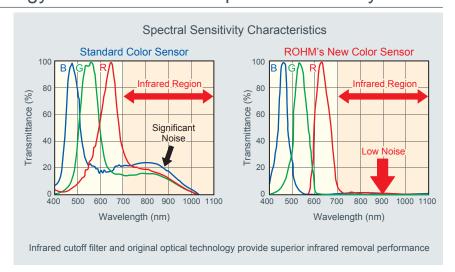
The BH1745NUC I²C-compatible digital color sensor is designed to detect the color components (RGB) in light and convert them digitally. Superior spectral sensitivity, achieved through optimum infrared cutoff characteristics and original optical technology, makes it possible to calculate the color temperature and brightness with a high degree of accuracy - even through low-transmittance optical windows - contributing to greater design freedom.

Proprietary optical filter technology ensures excellent spectral sensitivity



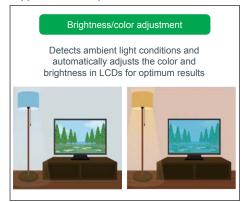
Key Characteristics

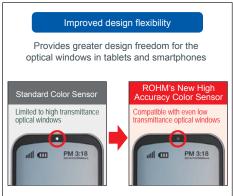
- Supply Voltage Range: 2.3 to 3.6V
- Max. Sensitivity: 0.005 lx/step
- Operating Current Consumption: 130µA (Typ.)
- Power Down Current Consumption: 0.8µA (Typ.)
- Operating Temperature Range: -40 to +85°C



Broad applicability

Application Examples







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ROHM Co., Ltd.
21 Saiin Mizosaki-cho, Ukyo-ku,
Kyoto 615-8585 Japan
TEL:+81-75-311-2121
www.rohm.com

