



Newsletter 03/2008

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TV Encoder LSI with Built-in Camera Image Correction AIE Offers Exceptional Visibility

ROHM has developed a TV encoder LSI integrating unique hardware image correction AIE (Adaptive Image Enhancer) that offers unprecedented high precision, discrete correction of images in real time, making it ideal for surveillance cameras, home security systems, automobile drive recorders and vehicle mounted cameras, where visibility is often poor due to changing ambient conditions, extreme backlighting, or darkness. The BU6520KV rapidly analyzes input images, divides the images into areas using unique algorithms, extracts the optimum brightness and color correction parameters for each area, and conducts real-time, high-speed image correction. The brightness of dark and bright areas are adjusted proportionally, resulting in visibility similar to the human eye. All required settings such as NTSC/PAL values, sampling frequency, and gamma values, can be stored in and read from an external EEPROM, enabling operation without a microcontroller - unlike conventional TV encoder ICs. Additional features include support for composite and CCIR601/656 component outputs, wireless LAN compatibility, and access of image correction data via external EEPROM, enabling replacement in existing systems without the need for hardware or software modification.



Main Features of BU6520KV:

1. Unique AIE core utilized for optimum image correction
2. Clear images with visibility close to the human eye
3. Color correction function built-in for brilliant color quality
4. Integrated edge enhancement and gamma filters further improve visibility
5. CCIR601/656-compatible input/output
6. Built-in TV encoder supports NTSC/PAL (27MHz/8fsec/28.375MHz) composite output
7. AIE/TV encoder settings downloadable automatically from EEPROM, enabling use without microcontroller
8. VQFP48C package

 More Information on www.rohmeurope.com
