

Video Encoder IC with Fog Correction Function

BU6521KV



Industry's first auto-fog detection hardware-based image correction IC utilizing proprietary algorithms

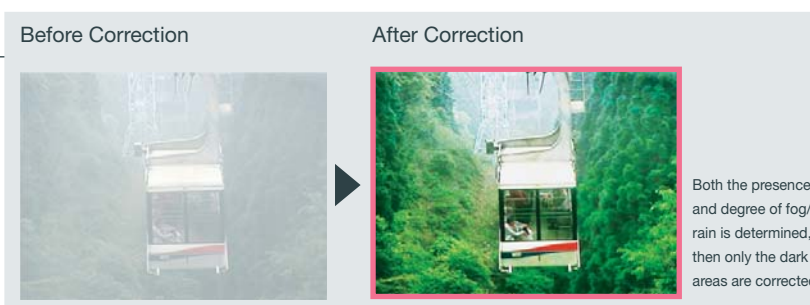
Product Outline

The BU6521KV integrates ROHM's original AIE (Adaptive Image Enhancement) function utilizing proprietary algorithms and real-time, hardware-based image correction for superior visibility in dark or harshly backlit environments. In addition, a unique fog-correction function is built in that adjusts images washed out or faded due to rain or fog. Optimized for applications, such as security systems, requiring excellent visibility under a variety of conditions, the BU6521KV also integrates a video encoder that allows image viewing in real time by simply connecting to a TV.

*ROHM offers the industry's first hardware-based fog image correction and automatic fog detection functions

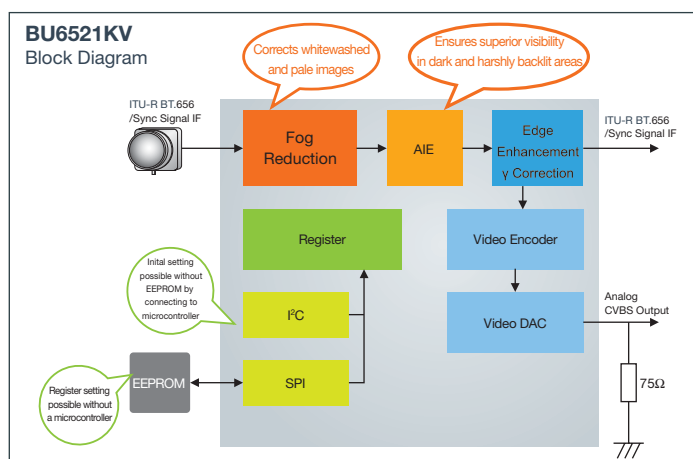
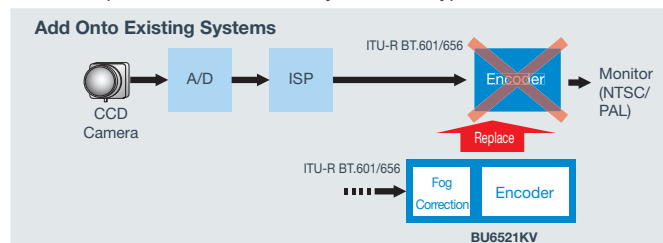
Fog Reduction and Fog Detection Functions

The BU6521KV integrates both an automatic fog detection function and fog reduction circuit that utilizes proprietary algorithms and hardware-based processing to detect the presence/absence of fog or rain by determining the level of whiteness in an image and correct washed out images by adjusting the contrast and color based on a histogram. Optimized image correction is ensured, even under changing conditions, resulting in unsurpassed visibility.



Easily add onto existing systems

The BU6521KV features a standard 8bit YUV=4:2:2 digital interface compatible with ITU-R BT.601/656, enabling replacement in existing systems utilizing conventional video encoders without requiring system modification. This makes it easy to add fog correction functionality for increased performance in current system of all types.



Specifications

Part No.	Supply Voltage (V)	Video Input Interface	Control Interface	Video Format	Operating Temp. (°C)	Package
BU6521KV	1.45 to 1.55 (V _{DD} Core) 2.7 to 3.6 (V _{DD} /O,AV _{DD})	8bit YUV= 4 : 2 : 2 ITU-R BT.601/656	I ² C/Serial EEPROM	NTSC PAL	-40 to +85	VQFP48C 9.0x9.0mm

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