

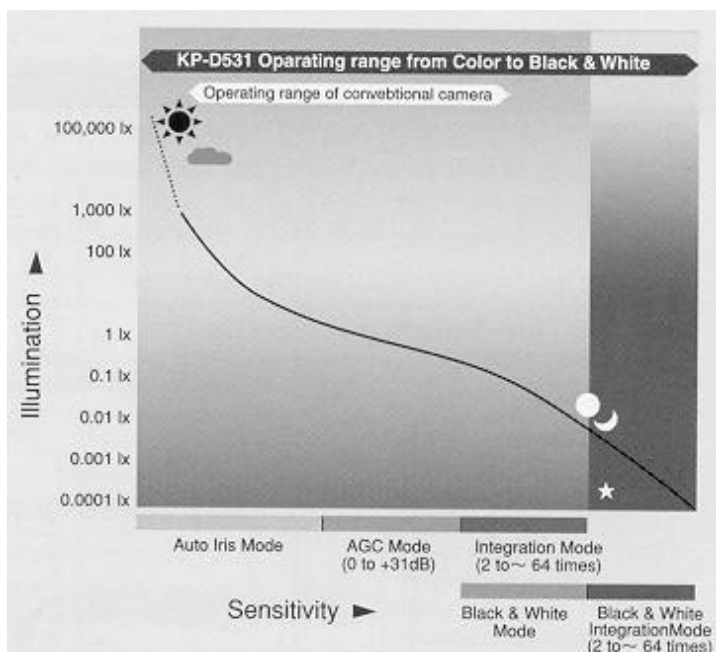
# High Sensitivity Color Camera KP-D531

Hitachi Denshi (Europa) GmbH



## 1/2 Inch High Sensitivity DSP KP-D531

- **Illumination Range of 0.02 to 100,000 lux**
- **Extended Integration Time of 2 to 64 Times**
- **Auto-Change Integration Mode**
- **Digital Signal processing (DSP)**
- **Thermoelectric Cooling for the CCD**
- **Digital Noise Reduction DNR**
- **Auto Tracking White Balance (ATW)**
- **Auto Electronic Shutter (AES)**
- **Backlight Correction**
- **On Screen Menu System**
- **Positive or Negative Picture Polarity**
- **RS-232C Remote Control for all Functions**
- **Electronic Zoom, with Pan / Tilt Function**



The **KP-D531** features an auto-change integration mode for use in low light observation, at levels down to 0.02 lux. With auto-change integration, the IR cut filter is removed and the camera is switched to a monochrome mode to improve sensitivity. By using a combination of CCD exposure time and field memory, sensitivity is increased by 64 times compared with a conventional single CCD camera. Thermoelectric cooling is used on the CCD to reduce the effects of dark current noise at long exposure times. Digital signal processing is employed, and enables new functions such as noise reduction, backlight compensation, automatic sensitivity switching, auto change integration, positive or negative output, and a 2H enhancer for a sharp picture. Automatic color tracking can maintain proper color balance with changing light levels and color temperature. A four times electronic zoom with pan and tilt feature is standard, and allows magnification of the picture even when a standard lens is used.

## Specifications (NTSC)

Imager: 1/2 inch IT CCD with microlens  
Pixels: 768 x 494  
Cell Size: 8.4 x 9.8  
Resolution: 480 TV lines  
Illum. Range: 0.0 - 100,000 lux at f1.2  
S/N: 50 db

Auto-Change Integration Mode:  
Color 0.2 lux, Monochrome 0.02 lux

Integration: Selectable up to 64 times

Backlight Correction: Auto / Manual

Gain: Manual / AGC

Shutter: 1/60 - 1/30000 or AES

Noise Reduction: On / Off

ATW Range: 2500K to 8000K

Electronic Zoom: 4 times with pan / tilt

Character Gen: 24 alphanumeric

Signal Process: 9 bit DSP

Power: 117Vac

Output: VBS

Size: (W x H x D) 64 x 63 x 122 mm

Weight: 600 grams

Lens: C / CS mount ES type

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