



EMCCD Cameras

EMCCD Camera Data

The DVS EMCCD camera provides high resolution monochrome images from Starlight to full Sunlight; no change over mechanism, no intensifier, no image burn.

DVS24/1000 Modular

Operation range:

Full Sunlight to Starlight



Camera Details:

- Power: 16W nominal
- Input Voltage: 12Vdc
- Mass: <600 grams
- CCD resolution: 1000x 1000
- Lens Fitting: C-mount
(Custom fittings on request)
- Lens drive: Video auto iris drive
- Temperature Range
- Operating: -40° to +60°C
- Storage: -50° to +70°C
- Operation: user selectable
- Automatic – plug and play
- Manual – control of

- * Operating mode (CCIR/EIA/digital)
- * Frame Shift Smear Shutter
- * Noise filter
- * Resolution filter
- * On-chip gain
- * Video gain
- * On-chip integration
- * Electronic shutter
- * Gamma user selectable value
- * Fully adjustable exposure control:
 - ◇ Video level
 - ◇ Exposure control window
- * White spot suppression – on/off
 - ◇ Sub area selection in digital output mode
 - ◇ Set user operating parameters as default

DVS Cameras

- a) Designed and manufactured in the United Kingdom
- b) Built to international standards for Shock, Vibration & Temperature
- c) Incorporates a GMS system providing the optimum images under all light conditions.
- d) Provide images in full sunlight when used with an Auto-Iris lens.
- e) The EMCCD sensor is a frame shift device and due to this bright spots of light in the field of view can generate vertical streaks. A phenomenon suffered by all cameras using an EMCCD sensor. DVS cameras may be supplied with a Frame Shift Smear Shutter which removes this phenomenon. The following images provide an indication of this effect and how the DVS shutter system corrects the phenomenon.

Without shutter



With shutter



DVS24/1000 Mono-body

Operation range:

Full Sunlight to Starlight



Camera Details:

- Power: 16W nominal
- Input Voltage: 12Vdc
- Mass: <1000 grams
- Dimensions: 67mm Ø x 190mm length
- CCD resolution: 1000x 1000
- Lens Fitting: C-mount
(Custom fittings on request)
- Lens drive: Video auto iris drive
- Temperature Range
- Operating: -40° to +60°C
- Storage: -50° to +70°C
- Operation: user selectable
- Automatic – plug and play
- Manual – control of

- * Operating mode (CCIR/EIA/digital)
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 - ◇ Set user operating parameters as default

DVS reserve the right to modify the data outlined without prior notice (E & OE)

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