

## High Resolution, Compact High-Speed Camera



### When High Performance and Streamlined Form Factor Matter

The i-SPEED 230 is a lightweight, compact high-speed camera suited for a wide range of applications such as automotive crash testing, material strain testing, and scientific research.

The newest addition to the i-SPEED 2 Series from iX Cameras, the 230 offers a small form factor and lightweight body for easy integration into assembly lines and lab testing areas.

Optional Hi-G shock rating ensures excellent performance even when deployed on an automotive impact sled or production line machinery.

### FEATURES

- 2,500 fps at 1280 x 864 full resolution
- Certified to 100 G shock, 20 G vibration
- Maximum frame rate 225,000 frames per second
- Multiple triggering capabilities
- Outstanding image quality
- Easy to use i-SPEED 230 Control software
- GenICam compliant

## IMAGER

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Frame rate at full resolution</b> | 2,500 fps                |
| <b>Shutter</b>                       | 1 µs                     |
| <b>Spectral bandwidth</b>            | 420 - 700 nm             |
| <b>Maximum resolution</b>            | 1280 x 864               |
| <b>Maximum frame rate</b>            | 225,000 fps              |
| <b>Sensor diagonal</b>               | 21.15 mm                 |
| <b>Pixel size</b>                    | 13.7 µm square           |
| <b>Bit depth</b>                     | 10 bit                   |
| <b>Light sensitivity</b>             | 6,400 mono / 5,000 color |

## SYNCHRONIZATION and CAPTURE

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Memory</b>         | 8 GB / 16 GB                     |
| <b>Video</b>          | AVI (compressed or uncompressed) |
| <b>Image sequence</b> | BMP, JPG, PNG, TIF               |

## PHYSICAL and ENVIRONMENTAL

|                          |                                  |
|--------------------------|----------------------------------|
| <b>Dimensions inches</b> | 2.6 (W) x 2.6 (H) x 4.7 (L)      |
| <b>Dimensions mm</b>     | 65 (W) x 65 (H) x 120 (L)        |
| <b>Weight</b>            | 1.1 lbs (500 g) without lens     |
| <b>Input voltage</b>     | 10 - 30 VDC                      |
| <b>Power consumption</b> | 17 W max                         |
| <b>Mounting</b>          | ¼-20                             |
| <b>Lens options</b>      | C mount / FG mount               |
| <b>G shock</b>           | Hi-G 100 G shock, 20 G vibration |
| <b>Temperature °F</b>    | 41 to 122 operation              |
| <b>Temperature °C</b>    | 5 to 50 operation                |

## CONNECTIVITY

|                       |                                     |
|-----------------------|-------------------------------------|
| <b>Network</b>        | 1 Gb RJ45                           |
| <b>Power input</b>    | 5 pin female connector              |
| <b>Trigger</b>        | External signal / switch triggering |
| <b>Input/output</b>   | 16 pin female                       |
| <b>Ethernet</b>       | 1 Gb                                |
| <b>Remote control</b> | via supplied software               |

## PURCHASING OPTIONS

|                     |                                 |
|---------------------|---------------------------------|
| <b>Sensor</b>       | Color / Mono                    |
| <b>Package type</b> | Standard / Hi-G rated           |
| <b>Warranty</b>     | 1 year standard parts and labor |

## FRAME RATES, RESOLUTION and DURATION

| Frame Speed | Resolution | Record Time (sec) |       |
|-------------|------------|-------------------|-------|
|             |            | 8 GB              | 16 GB |
| 2,500       | 1280 x 864 | 2.48              | 4.96  |
| 3,000       | 1280 x 720 | 2.48              | 4.96  |
| 2,813       | 1280x 768  | 2.48              | 4.96  |
| 4,501       | 1280x 480  | 2.48              | 4.96  |
| 4,129       | 1280 x 512 | 2.48              | 4.96  |
| 9,002       | 1280x 240  | 2.48              | 4.96  |
| 16,879      | 1280 x 128 | 2.48              | 4.96  |

**Note: Other resolutions and speeds are available.**



Specifications subject to change  
Document: DS-230-1.07.20  
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