



MUSES9-DR TECHNICAL DATASHEET

MUSES9-DR is the world's first 6.44 megapixel, snapshot, hand held, tablet PC- operable, spectral imager, in the range 400-1000nm. The MUSES9-DR camera connects to the drone control unit via the popular DJI skyport interface.

- Ultra-high spatial resolution: 3096 horizontal x 2080 vertical pixels for all supported spectral bands.
- Displays simultaneously and side-by side 22 critical spectral bands, spectral classification and vegetation index maps, all at video refresh rates.



Detailed Specifications

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|--------------------------------------|--------------------|---------------------------------------|
| Spectral Filtering Technology | Snapshot capturing | |
| | Spectral range | 400-1000nm |
| | Spectral bands | Displays 22 critical spectral bands |
| Imaging Sensor | CMOS | |
| | Spatial Resolution | 3096 (H) × 2080 (V) approx. 6.44MP |
| | Format | 1/1.8 inch |
| | Pixel Size | H: 2.4 μm, V: 2.4 μm |
| | Dynamic range | 12 bit |
| | Dark current | 0.39 e- / s |
| | Shutter | 20 μs to 5 s |
| Camera Interface | USB3.1 | |

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| Environmental | Temperature (Operating) | -5 °C to 45 °C |
| | Temperature (Storage) | -20 °C to 60 °C |
| | Humidity (Operating) | 20 % to 80 % (non-condensing) |
| | Humidity (Storage) | 20 % to 95 % (non-condensing) |
| Weight | 700g | |
| Software | Computer Control | Fully automated operation, shutter & gain control, auto calibration, image capturing synchronization |
| | Image/Data viewer | On demand video rate display of spectral images, display of full spectra on mouse hovering over the displayed spectral image, spectra comparison window, color (reference) imaging, image enhancing tools, vegetation index mapping etc. |
| | | Subject to change |

SPECTRICON empowers researchers and professionals with the most advanced hyper-/multi- spectral camera systems