



TORONTECH

# **HYPERSPECTRAL CAMERA - FS-17**



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Hyperspectral Camera - FS-17 hyperspectral imaging device features an InGaAs matrix image sensor with high sensitivity, offering excellent spectral and spatial resolution.

Its applications are broad, spanning agriculture, food, pharmaceuticals, and environmental fields.

The camera supports a USB3.0 interface and is compatible with standard C-Mount lenses, providing flexibility and ease of use. It is designed for easy integration into devices for real-time hyperspectral imaging. With a unique optimization algorithm, it achieves high-speed acquisition and processing, ensuring efficiency and stability. The FS-17 is a reliable hyperspectral imaging solution.

## APPLICATIONS

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### Measurement principle

Hyperspectral Camera - FS-17

### Typical application

Hyperspectral Camera - FS-17Hyperspectral Camera - FS-17

## FEATURES

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- Spectral Method: Transmission grating

- Number of Spatial Pixels: 1280
- Spectral Range: 900-1700nm
- Spectral Channels: 1024
- Imaging Speed: Up to 1800fps after ROI
- Slit Width: 25μm
- Spectral Resolution: 8nm
- Camera Interface: C-Mount

## TECHNICAL SPECIFICATIONS

|                            |                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------|
| Model number               | FS-17                                                                                                        |
| Spectroscopic method       | Grating                                                                                                      |
| Spectral range             | 900-1700nm                                                                                                   |
| Spectral channel           | 1024                                                                                                         |
| Spectral resolution (FWHM) | 6nm                                                                                                          |
| Slit width                 | 25um                                                                                                         |
| Transmission efficiency    | > 60%                                                                                                        |
| Stray light                | < 0.5%                                                                                                       |
| Number of spatial pixels   | 1280                                                                                                         |
| Pixel size                 | 5um                                                                                                          |
| Imaging speed              | 8bit/1024 bands 132 frames/SEC,12bit/1024 bands 70 frames/SEC,8bit/512 bands 253fps, up to 1800fps after ROI |
| Probe                      | InGaAs                                                                                                       |
| SNR(Peak)                  | 600/1                                                                                                        |

|                   |                                             |
|-------------------|---------------------------------------------|
| Camera output     | Start                                       |
| Camera interface  | C-Mount                                     |
| Attachment        | Lens, USB cable, power supply               |
| ROI               | Multiple regions                            |
| Dimension         | Length x width x height :16.6cmx7.5cmx7.4cm |
| Weight            | 625g                                        |
| Power dissipation | 5W                                          |



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