

## High-speed hyperspectral sorting system FS-18/19M/19X

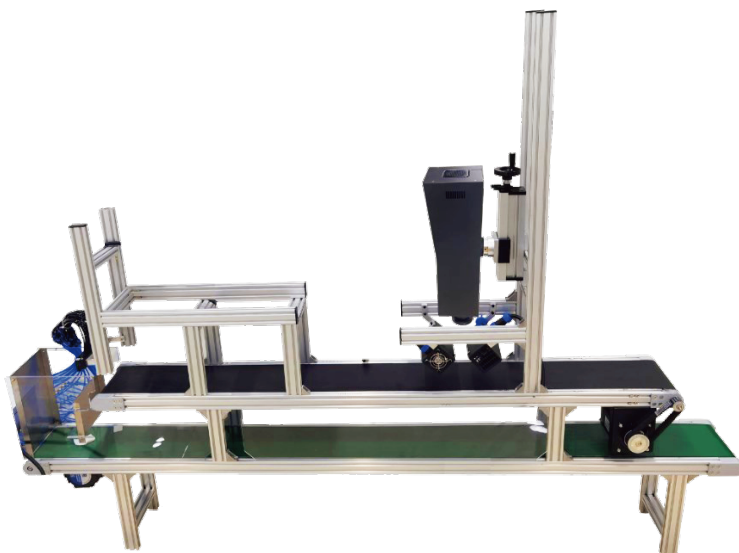
**Ultrahigh speed: 3500fps**

**short wave near infrared: 900-1700nm**

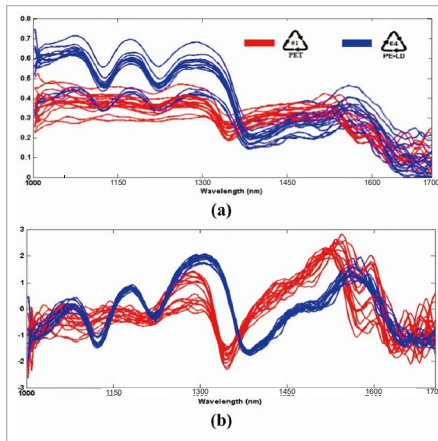


FS-18/19M/19X is a newly launched line-scan hyperspectral camera specially designed for industrial sorting applications. Its high frequency characteristics meet the requirements of scanning speed in the industrial field, and its solid structure and compact body It also makes its installation scenarios more flexible.

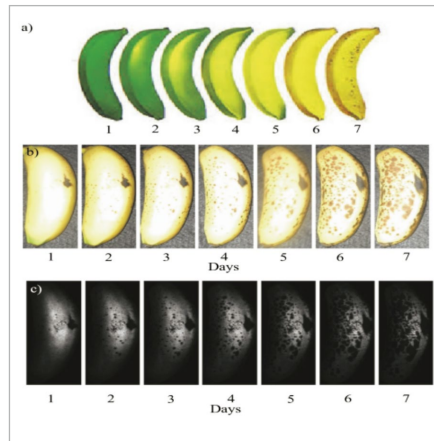
- Spectral range: 900-1700nm
- Imaging speed: up to 3500fps
- Spectral resolution: 6nm
- Provide hyperspectral image processing software
- Multiple regional ROIs can be achieved
- Suitable for various environments



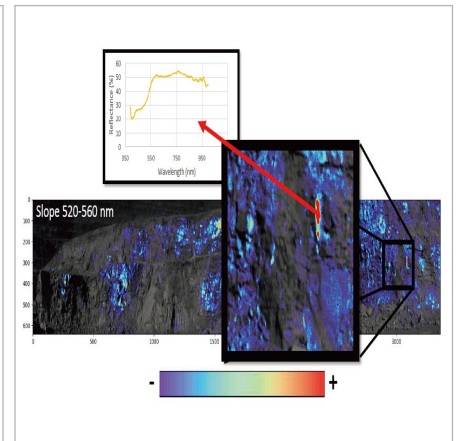
## Application areas



Plastic sorting



Fruit and vegetable sorting



Ore sorting

## Technical Parameters

Product number	FS-18 (short wave infrared SWIR)	FS-19M (short wave infrared SWIR)	FS-19X (short wave infrared SWIR)
lighting method	Passive lighting (excluding light source)		
Spectral method	Transmission grating		
Spectral range	900-1700nm		
Number of spectral bands	512	150	100
Spectral resolution	< 6nm	< 9nm	< 13nm
slit width	25um		
Transmission efficiency	> 60%		
stray light	< 0.5%		
number of spatial pixels	640		
Pixel size	15um		
Lens focal length	Standard 8mm (optional 6mm, 12mm, 25mm, 35mm lenses)		
field of view	62°(8mm focal length lens), 77°(6mm lens)		
Imaging speed	740fps	2400fps	3500fps
detector	InGaAs		
SNR(Peak)	600/1		
camera output	Cameralink		
camera interface	C-Mount		
Accessories	Lens, data cable, power supply, data acquisition card		
Technical Support	SDK can be provided to support secondary development		
ROI	single area		