



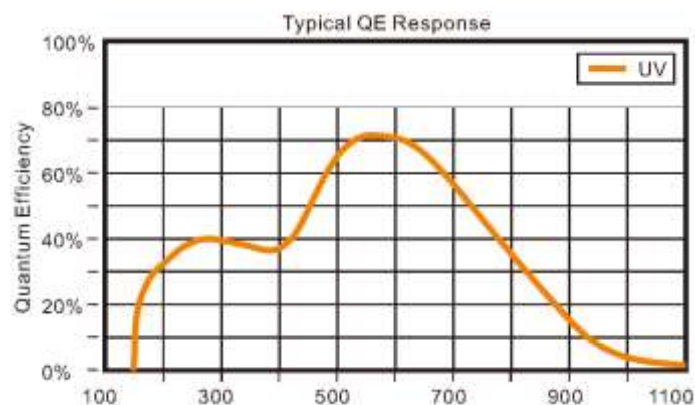
# MSFI-3

## MULTI-SPECTRUM FORENSIC IMAGING SYSTEM



### Features

- High Sensitivity from UL to Visible to IR (180nm-1100nm)
- Full HD 30fps HDSI readout
- High Quantum Efficiency (QE) optimized for Ultra-violet response
- 35mm HD Quartz Lens
- 5 Built-in LED light
- 20 band-pass filter set
- RAW recording on SSD
- Programmable Mode with easy recall
- Fully integrated, portable for one man operation





## Oi-35UV Lens for Multispectral (200-1100nm) imaging

- Chromatically corrected for 90% transmission 200nm to 1100nm
- 200-1100nm apochromatic correction with virtually zero chromatic error
- Lens for Multi spectral imaging (UV-VIS-IR)
- Advance Floating optics made of 8 glass/quartz/fluorite lens element
- High performance Apo Macro
- 1:1.5 to 1:3.0 Magnification
- Slide-on type filters
- Set of 20 band pass filters
- Durable all-metal construction
- Suitable for forensics, science, and fine art,
- CS or C Mount one inch format



35mm F3.0 UV lens

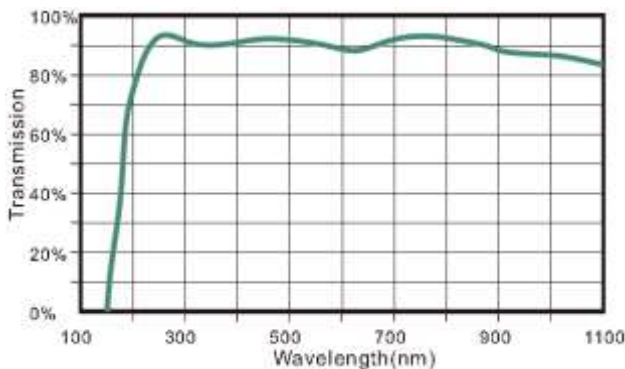
254mm fingerprint imaging



Oi-35UV on a UV sensitive camera



Metal construction, no focus shift from UV through IR. Equipped with 10cs fo slight filters (20 band-pass), proves to be one of the best UV lens in the world



### SPECIFICATIONS

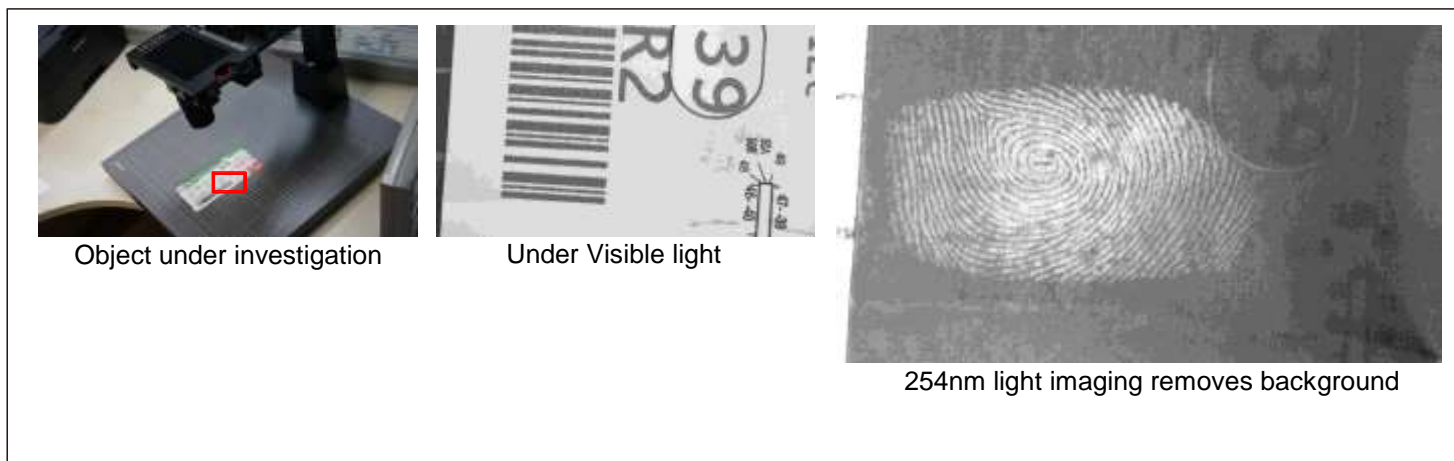
Focal Length	35mm
No. of Elements/Groups	8
Maximum Aperture Ratio	3.0
Magnification	1:1.5 - 1:3
Corrected Wavelength	200-1100nm
Max Format Size 1"	
Transmission Waveband:	180 - 1500nm
Apochromatic Waveband:	200 - 1100nm
Picture Angle	17°
Working Distance	20cm
Mount	CS or C
Filter Size	M34mmX0.50
Dimensions	ø56*73mm
Weight	260g



## Typical Crime Scene Operation



## Fingerprint on an airline ticket





## Bitemark

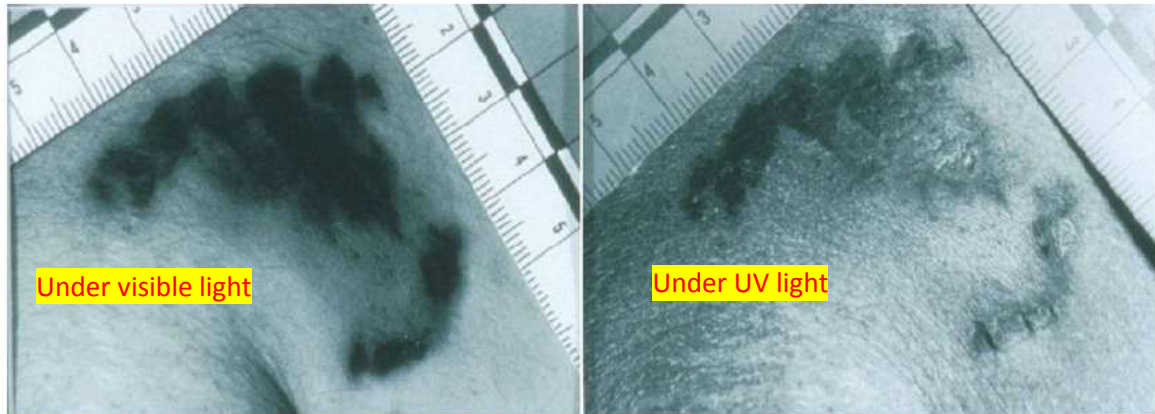
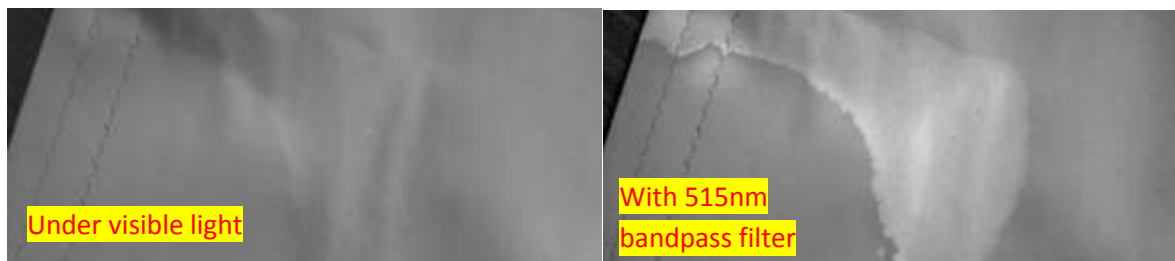


Figure 1. Visible-light and reflected near-UV images of a fresh bitemark



Figure 2. Five month old bitemark on living victim. Left – black and white film image, right, near-UV film image. Courtesy of Stephen Warlen.

## Traces of Urine





## Multi Spectrum UV imaging System Filters Applications

Illumination Light Wave Length (nm)		Main Applications	Filters
Alternative Light Source	LED Light		
White Light		Visible light searching	No filter
900/850	Red LED Laser Light	Forged documents, traceless inflammable residue	625-850
625		Hair, clothing fiber, firearm and bullet residue, burn objects, explosive trace, ninhydrin	625-850/600-625
590	Green LED Laser Light	superglue fuming, rhodamine 6G, ninhydrin, clothing fiber, glass	625-850/600-625
530		Fingerprint, superglue fuming, rhodamine 6G, Fluorescent powder	625-850/600-625/530-600
505	Blue LED Laser Light	Fingerprint, DFO, superglue fuming, rhodamine 6G, ninhydrin, foot wear print	625-850/600-625/530-600
470		Blood stain, saliva, semen, urine, bone, foot wearing print, forged bank note and forged passport	625-850/600-625/530-600
455		superglue fuming, rhodamine 6G, ninhydrin, clothing fiber, glass	625-850/600-625/530-600
410/395/385/365	UV C/B/A Band Light	Blood stain, saliva, semen, urine, bone, clothing fiber, hair, foot wearing print, biking, injuries, forged bank note and forged passport, new/old painting, adhesive side of the tape, oil stain on the stainless steel, wax floor, cable surface, printed documents, fingerprint on tin surface(background removing)	625-850/600-625
254/313/365		Fingerprint	250-270/300-350