

# BAYOMETRIC

## Integrated Biometrics eCurve

### EMBEDDED FINGERPRINT MODULE



### PRODUCT DESCRIPTION

eCurve from Integrated Biometrics is the embedded module version of their popular Curve models single finger capture device. eCurve is an OEM grade fingerprint module that can be easily integrated onto mobile or handheld devices and security checkpoints for adding a factor of biometric security. eCurve comes as a package including the OEM module, fully featured SDKs and technical support that helps in integration with products.

eCurve produces high quality fingerprint images consistent with FBI standards and uses WSQ compression. It uses IB LES technology to produce latent print free, high quality images irrespective of scanning conditions. eCurve can work with dry, wet, scarred or aged fingers even under direct sunlight to provide 500 DPI, 288 x 352 pixel images.

The module is compatible with multiple Operating Systems such as Windows, Linux, and NetBSD 4.0 making it an ideal choice for integration as a biometric security module into products. It can be programmed using C, C++ and VB.Net. The OEM module consumes around 110 mA while operating and is also equipped with Auto-On and Live-finger detection technologies which make it highly power efficient and reliable.

### KEY FEATURES

Sensor Auto-On: touch & go

Curved surface: more surface contact with less ridge distortion

Multi-color LEDs: direct feedback for users

Operates in direct sunlight: anytime anywhere

Operates in direct sunlight: Anytime Anywhere

Low power consumption: Low Drain

Low Maintenance: No Latent Residue Cleaning

No prisms or silicon pads: durable

### TECHNICAL SPECIFICATIONS

Interface	USB 1.1 and USB 2.0
Housing dimensions	70mm (ø) x 33mm
Image resolution	500 DPI
Finger rotation flexibility	+/- 30 degrees
Image Grayscale	>15 kV, mounted in case
Operating temperature	-10°C to 50°C
Power supply voltage	4.5 – 5.5v
Capture state current	110mA maximum
Power-up initialization	210 ms
ACTIVE X and .NET control	Included
Image compression	WSQ
Part number	IBHLMU500-03A
Type	Light Emitting Sensor (LES) electroluminescent film
Image quality scoring method	NFIQ
Image processing / matching algorithms	IB developed and supported – no third party technology
Capture area	15mm x 18mm
Weight	0.2 kg
Image size	288 x 352 pixels
Multi-color leds	Green / Red / Blue
Storage temperature	-30°C to 80°C
Idle state current	100mA maximum

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#### KEY SPECIFICATIONS

Pixel resolution: 512 dpi (average x, y over the scan area)

Scan capture area: 14.6 mm (nom. width at center) 18.1 mm (nom. length)

8-bit grayscale (256 levels of gray)

Reader size (approximate): 65 mm x 36 mm x 15.56 mm

Compatible with USB 1.0, 1.1 and 2.0 (Full Speed) specifications

#### CONTACT

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#### LINKS



[www.linkedin.com/company/bayometric](http://www.linkedin.com/company/bayometric)



[www.facebook.com/bayometric/](http://www.facebook.com/bayometric/)



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USB cable length	1.5 meter
Matching speed	1:30,000 in 1 second
FAR / FRR (adjustable)	0.00071% / 0.00819% (default setting)
USB drivers	Microsoft certified
Minimum current	No power draw when sensor is off
Live finger sensing	Intrinsic to LES image generation technology

#### ABOUT BAYOMETRIC

Bayometric is a leading global provider of biometric security systems offering core fingerprint identification solutions. Our products and solutions help enterprises, government agencies, custom application developers and system integrators meet their security, identification and access management requirements.