

## SATIR UM Series - UM384/UM640

### IR Monocular



45° angle



90° side angle



45° side angle

SATIR is pleased to announce the UM Series the UM384/UM640, thermal monocular designed for long-range detection and recognition. These exceptional ranges are achieved through a combination of factors including an uncooled FPA detector in two resolutions (384x288 and 640x512), selectable focal lengths (25mm, 35mm, and 54mm) offering various fields of view, and a sensitive thermal system with a NETD (Noise Equivalent Temperature Difference) of less than 40mk@30°C. The 60Hz frame rate ensures smooth image rendering, while manual focus and a spectral range of 8-14µm allow for clear observation in diverse environments.

### Key Features

- 384x288 & 640x512 Uncooled IR Detector
- USB Charging
- Protection Class ≥IP65

## UM SERIES Specifications

Items		UM384	UM640
<b>Detection Distance</b>	Vehicle	3650m	5625m
	Human	1100m	1687m
<b>Recognition distance</b>	Vehicle	1250m	1875m
	Human	365m	562m
<b>Detector</b>	Type	Uncooled FPA	
	Resolution	384×288	640×512
<b>Imaging</b>	Focal length/FOV	35mm/7.5°×5.7°	54mm/8.1°×6.5°
	Optional Focal length	25mm/35mm/54mm	
	Digital zoom	2X/4X/8X/16X	
	NETD	≤40mk@30°C	
	Frame rate	60Hz	
	Focus	Manual focus	
	Spectral range	8-14μm	
	Laser indicator	Yes	
<b>Display</b>	Screen	1280×960	
	Color palettes	White-heat, Black-heat, Red-heat, Hot metal, Saturated-yellow, Fusion mode	
	Diopter adjustment	±4SD	
<b>Power supply</b>	Battery type	Li-Ion battery, rechargeable	
	Operating time	5 hours continuous operation	
	Charging	USB charging	
	Power input	DC 5V/2A	
<b>Environment</b>	Working temp.	-20°C- +60°C	
	Storage temp.	-30°C- +80°C	
	Protection class	≥IP65	
	Drop resistance	1 Meter	
<b>Weight</b>	Weight	513g±5g	
<b>Interface</b>	Power input	Yes	
	Video output	PAL	
	USB	External charging	