



**MULTISPECTRAL
TECHNOLOGY**

MERGER DUO NXP50

Multispectral digital night vision
and thermal imaging binoculars



Features

- Multispectral thermal and night vision device
- Extra low-light Full-HD digital night vision
- Highly sensitive 640x480 @ 17 μm / NETD < 25 mK thermal sensor
- Thermal, digital and combined viewing modes
- Advanced Pulsar Image boost technology
- Classic binocular design
- Ergonomic and functional carrying case
- Clear trophy identification
- Rugged magnesium alloy housing
- Built-in photo and video recorder
- Invisible IR Illuminator for digital night vision
- High-contrast HD AMOLED displays
- IPX7 submersion waterproof rated
- Operation in extreme temperatures -25 to +50°C



Specifications

Merger Duo NXP50	
Model # (SKU)	77455
Thermal sensor resolution, pixels	640x480
Thermal sensor pixel pitch, μm	17
Thermal sensor NETD, mK	<25
Digital sensor type	CMOS
Digital sensor resolution, pixels	1920x1200
Display type	AMOLED
Display resolution, pix.	1280x960
Built-in video recorder availability	Yes
Format and resolution of video clip	.mp4/1280x960
Format and resolution of photo files	.jpg/1280x960
Type & capacity of memory card	eMMC 64 Gb
USB, type	USB Type-C
Wi-Fi, type	2.4/5Ghz
IR illuminator type	Attachable
IR wavelength, nm	940
Battery type	Dual Li-Ion internal + Pulsar APS3 external
Maximum operation time, h	7
External power supply, V	5V/9V USB Type-C
Magnification of thermal channel, x	3 - 24
Magnification in digital channel, x	2 - 16
Thermal channel objective lens, mm	50mm/F1.0
Digital channel objective lens, mm	50mm/F1.4
Field of view of thermal channel, $^{\circ}$	12.4
Field of view of digital channel, $^{\circ}$	21.7
Eye relief, mm	12
Diopter adjustment, dptr.	-4/+3
Interpupillary distance, mm	63 – 74
Operating temperature, $^{\circ}\text{C}$	- 25 – +50
Level of protection	IPX7
Waterproofness	Yes
Dimensions (L x W x H), mm	207 x 140 x 73
Weight, kg	1.2