MERGER LRF THERMAL BINOCULARS
Features & Specs

Model	Merger LRF XL50	Merger LRF XP50	Merger LRF XQ35
Market release	2023	2022	2023
SENSOR			
Sensor type	Microbolometer, uncooled, α-Si		
Sensor resolution, pixel	HD 1024x768	640x480	384x288
Pixel pitch, μm	12	17	17
Sensor NETD, mK	< 40	< 25	< 25
DISPLAY			
Display type	AMOLED HD		
Display resolution, pixel	1024x768		
OBJECTIVE LENS			
Lens	F50 / 1.0	F50 / 1.0	F35 / 1.0
Lens material	Germanium		
FIELD PERFORMANCE			
Magnification, x	2.5 – 20 (High image detail across the whole magnification range)	2.5 – 20	3 – 12
Field of View, °	14 x 10.5	12.4 x 9.3	10.7 x 8
Detection range, m	2300	1800	1350
VIDEO RECORDING			
Built-in videorecorder	Yes, .mp4 (with sound recording) / .jpeg		
Video / photo resolution, pixel	1024x768		
Built-in memory, Gb	64	16	16
POWER SUPPLY			
Battery type	Dual Li-Ion Power System: 3.2 A·h Changeable Battery (external) / 4.0 A·h Battery (internal)		
Max. operation time, h	7	8.5	10
External power supply	USB Type-C (quick-charge supported)		
OPERATING AND PHYSICAL PARAMETERS			
Body material	Magnesium alloy		
Operating temperature, °C	-25 ÷ +50		
IP rating (IEC 60529)	IPX7 (waterproof)		
Dimensions, mm	197 x 140 x 72	196 x 143 x 76	181 x 133 x 68
Weight (with batteries), kg	0.95	0.95	TBD
ADDITIONAL FUNCTIONALITY			
Colour palettes	8 (White Hot, Black Hot, Red Hot, Red Monochrome, Rainbow, Ultramarine, Violet, Sepia)		
Observation modes	Sensor sensitivity amplification adjustment (Normal, High, Ultra) / Smoothing filter / User mode		
Wi-Fi	Yes, 2.5 / 5 GHz		
Supported mobile app	Stream Vision 2		
Language selection	English, German, Spanish, French, Russian, Italian, Portuguese, Dutch, Danish, Norwegian, Swedish, Polish, Czech, Hungarian		

And more:

- Classic binocular design
- Comfortable viewing experience with both eyes
- Precise laser rangefinder with 1000 m measuring distance
- Proximity sensor for covert use