

**4K**  
NATIVE RESOLUTION  
**LCoS**

**8K**  
INTERPOLATION  
**UHD**

**8K**  
INTERPOLATION  
**UHDx**

**BLUEScent**  
3 000 Lumens Laser Source

**HDR10+**

**HDMI™ 2.1**

**3D** **LOW LATENCY**

*Cine* **VERSUM**

VOF



cover: The Tomorrow War® by courtesy of SSQ Audio

# **BLACKWING LASER MK2022 SERIES**

**FIRST 8K HDR10+ LASER VIDEO-PROJECTORS FOR HOME-CINEMA**



Model Version		BlackWing 1-L MK2022	BlackWing 2-L MK2022	BlackWing Elite-L MK2022
Standard P/N		R9202201	R9202202	R9202203
Panel Resolution		3 x 4 096 x 2 160 (4K Resolution)		
Light Engine Technology		3 x LCoS 0.69" 2nd generation 4K panels	3 x LCoS 0.69" 2nd generation 4K panels with Ultra-High Contrast Optics	
Display Resolution		8 192 x 4 320 (8K Resolution with UHD Interpolation)	8 192 x 4 320 (8K Resolution with UHD X Interpolation)	
Signal Compatibility		UHD Blu-ray disks up to 8K60p / 4K120p HDR 10+ content with 2 dynamic tone mappings and Frame Adapt HDR HLG (Hybrid Log Gamma) for broadcasting and streaming services High Frame Rate and Low Latency gaming Consoles		
Optical Lens		Standard full-glass 65 mm diameter lens		Premium 100 mm diameter lens with Low Dispersion elements, 8K optimized
Throw Ratio (16:9)		1.44:1 - 2.88:1 motorized 2 x zoom		1.37:1 - 2.74:1 motorized 2 x zoom
Screen Size (16:9)		60" - 200" diagonal		60" - 300" diagonal
Optical Offset		Motorized: ± 80% vertical, ± 34% horizontal		Motorized: ± 100% vertical, ± 43% horizontal
Light Source & Lifetime		Laser Diode - up to 20 000 hours or 20 years (no replacement needed)		
Brightness after calibration (Ansi lumens)		2 200	2 500	3 000
Native Contrast Ratio		40 000:1	80 000:1	100 000:1
Dynamic Contrast Ratio		INFINITY:1		
Lens Positions		10 Installation Memories		
Noise Level		Less than 22 dB (when set to low power mode)		
Inputs		2x HDMI 2.1 input with HDCP 2.3 (48 Gbps transmission band)		
Expert Calibration Menu		YES (for calibration expert only)		
Picture Modes		4 Presets + Film + 6 Users + 2 for Installation Experts only		4 Presets + Film + 6 Users + 4 for Installation Experts only
Color Space Profiles		9 Presets + 6 Customs		10 Presets + 6 Customs
Video Processing		HDR10+ Auto-Tone mapping HDR Picture modes with Perceptual Quantization (PQ) EOTF and Hybrid Log gamma HDR colorimetry and MaxCLL / MaxFALL meta-data auto-detect Low Latency/Game mode @120Hz for real time simulation and gaming experiences Blur Reduction, 400 Hz Crystal Motion® Theater Optimizer Function	HDR10+ Auto-Tone mapping HDR Picture modes with Perceptual Quantization (PQ) EOTF and Hybrid Log gamma HDR colorimetry and MaxCLL / MaxFALL meta-data auto-detect Low Latency/Game mode @120Hz for real time simulation and gaming experiences Blur Reduction, 400 Hz Crystal Motion® Theater Optimizer Function DCI-P3 and BT.2020 74% Color Profiles	
E-Shift		UHD 8K Interpolation (8192 x 4320)	UHD-X 4-way 8K Interpolation (8192 x 4320)	
Color Modes		REC.709, DCI-P3, BT.2020	REC.709, wide gamut (Cinema filter, DCI-P3, BT.2020 74%)	
Power Voltage and Consumption		AC 110-240V 50/60Hz 420 W 0.3 W in Eco Mode standby 1.5 W with LAN	AC 110-240V 50/60Hz 440 W 0.3 W in Eco Mode standby 1.5W with LAN	
Home Automation Control		RS-232 (Dsub 9) / LAN RJ45 / 12V Trigger (100mA)		
Weight		26 kg (57.3 lbs)		28 kg (61.7 lbs)
Dimensions (W x H x D)		54 x 26 x 57 cm (21.3" x 10.3" x 22.3")		
Box Dimensions (L x W x H)		66 x 65 x 44 cm - 32 kg (70.5 lbs)		
OPTIONS	Active 3D Glasses	RF Active Shutter 3D glasses (P/N R1048223) with RF 3D Dongle (P/N R1048229)		
	Ceiling Mount Kit	Fixed (P/N R9852068) - Motorized 1 meter Lift (P/N M9201400) - Motorized 2 Meters Lift (P/N M9201404)		
	Other Options	Static Anamorphic Lens Kit, Special colors and finishes on demand, Passive 3D glasses.		