

**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**

VOD



# **BLACKWING LASER MK2022 SERIES R0-R1-R2-R3**

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

cover: The Tomorrow War© by courtesy of SSQ Audio

Model Version	BlackWing Essential_R0 2022	BlackWing 1_R1-L MK2022	BlackWing 2_R2-L MK2022	BlackWing Elite_R3-L MK2022
Standard P/N	R9202200	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	4 096 x 2 160 (4K Resolution without Interpolation)	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 4K 120p HDR 10+ content with 2 dynamic tone mappings and Frame Adapt HDR HLG broadcasting and streaming services HFR and Low Latency gaming Consoles	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	265 W UHP - up to 4500 hours when used in low mode (P/N R8760006)	Laser Diode - up to 20 000 hours or 20 years (no replacement needed)		
Brightness after calibration (Ansi lumens)	1 900	2 200	2 500	3 000
Native Contrast Ratio	40 000:1	40 000:1	80 000:1	100 000:1
Dynamic Contrast Ratio	400 000:1	INFINITY:1		
Lens Positions	10 Installation Memories			
Noise Level	Less than 22 dB (when set to low power mode)			
Inputs	1x 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	No	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, 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	23 kg (50.7 lbs)	26 kg (57.3 lbs)		28 kg (61.7 lbs)
Dimensions (W x H x D)	50 x 26 x 49.5 cm (19.7" x 10.1" x 19.5")	50 x 26 x 50.5 cm (19.7" x 10.1" x 19.9")		50 x 26 x 53 cm (19.7" x 10.1" x 20.9")
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.		