Specifications

Model		SNP-CW500E	SNP-CH500E	SNP-CK502E	SNP-SH502E
Main Parameters	Projection System	DLP®Chipx1, DLP Projection System			
	Chip Size	0.65" WXGA DMD S450	0.65" 1080P DMD S600	0.65" 4K DMD S450	0.65" 1080P DMD S600
	Resolution	WXGA (1,280 x 800) compatible 4K	1080P (1,920 x 1,080) compatible 4K	4K UHD (3,840 x 2,160)	1080P (1,920 x 1,080) compatible 4K
	Brigtness*1	5,700lm (center)	5,700lm (center)	5,400lm (center)	5,200lm (center)
	Uniformity*2	80%			
	Contrast*2	6,000,000:1 (Fully On/Off, Dynamic)			
	Aspect Ratio	16:10 (standard), compatible 4:3/16:9	16:9 (standard), compatible 4:3/16:10		
Light Source	Type	MCL Laser Diodes			
	Lifetime*3	20,000H(Standard), 30,000H(ECO)			
Lenses	Throw Ratio	1.18-1.51:1	1.13-1.44:1		0.495:1
	Zoom Ratio	1.28 x			N/A
	Screen Size (diagonal)	55''-300'' (1.39 m-7.62m)			60''-200'' (1.52m-5.08m)
	Offset	107%±5%	110%±5%	109%±5%	110%±5%
	Operation Mode	Manual / Focus / Zoom			Manual / Focus
Keystone		V:±30°, H: ±30°			
Image Processing		4 Corner Calibration		4 Corner Calibration / Curved Screen Correction	4 Corner Calibration
Color Clibration		HSV™ Color Management System			
3D		Active 3D			
Installation		Horizontal/Vertical 360° Installation			
Security Slot		Support			
Input		HDMI x2(V2.0 compatible 4K support HDCP*4)			
		VGA x1 (D-sub 15pin)			
		Audio x1 (3.5mm stereo mini plug)			
		N/A	N/A	HDBaseT*5 x 1	N/A
Output		Audio x1 (3.5mm stereo mini plug)			
		USB -A x1 (for power supply, 5V/1.5A)			
Control		RS232 x1 (D-sub 9pin)			
		RJ45 x1			
		Mini USB x1 (DFU)			
Speaker		16W x1			
Scan Frequency		Horizonta: 15-100kHz, Vertiacll: 24-85Hz			
Display Compatibility	Computer Signal Input	VGA, SVGA, XGA, SXGA, WXGA, UXGA, WUXGA, 4K@60Hz			
	Video Signal Input	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 4K			
Intelligent Connect*6	Intelligent Light Sense Enhanced*6	N/A		Support	
	Intelligent Altitude Detection*6	N/A		Support	
Power Supply		AC 100-240V @50/60Hz			
Power Consumption		325W±15%			
Standby Power		<0.5W			
Size(exclude base angle)		420mm(W) x 295mm(D) x 113mm(H)			
Size(include base angle)		420mm(W) x 295mm(D) x 125.5mm(H)			
N.W.		5.2kg			
G.W.		7.2kg			
Noise		Standard: 35dB / ECO: 32dB			
Working Environment*7	Altitude	0~3,000m (switch to high altitude mode when altitude over 1,700m)			
	Temperature	0°C ~40°C			
	Humidity	20%-80%, no condensation			
Accessories		Remote Control x1, Power Cable x1			

Remark:

1. The light output value is measured in the center of projected screen. Average value.
2. Base on ISO/IEC 21118:2020 Standard.
3. Energy-saving mode under the condition of simulated acceleration test, non-commitment warranty time. The brightness of the light source will gradually decrease with the increase of the use time, and factors such as the operate environment and different operation techniques will also cause the rapid decay of the life of the light source.
4. HDCP Protocol (High-bandwidth Digital Content Protection). High bandwidth digital content protection technology. HDMI2.0 supports up to 3840x2160@60Hz resolution format, and HDCP protection protocol supports 1.4/2.2.
5. HDBaseT Trademark from HDBaseT alliance.
6. The functional configuration of different models may vary slightly, depending on the functional configuration of the final product.
7. In high altitude mode, the system will operate in the range of 0 to 40°C to ensure the normal operation of the projector. If the projector is used at a high altitude and the ambient temperature exceeds 40°C, the service life of the optical components may be reduced, and it is recommended to keep the temperature as low as possible. The power of the light source will be reduced due to high ambient temperature (≥40°C) and the noise will be louder.

Sole Distributor (Malaysia)
Avisol Systems Sdn Bhd

https://avisol.net/

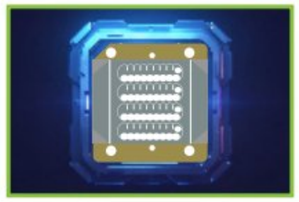
Concave Mirror Reflective Technology

Optical Engine

Himalaya series projector using Sonnoc' s unique concave mirror reflective patented technology, combined with inorganic material wave plate to form a fully reflected optical engine system, light efficiency and picture uniformity have reached the industry-leading level.

MCL Laser Diodes

Using MCL laser diode light source module, the failure of individual laser units will not lead to black screen. 30,000 hours long life laser light source, sealed dust-proof optical system structure and no filter maintenance-free design, support 7×24 operation, high reliability , low maintenance cost.

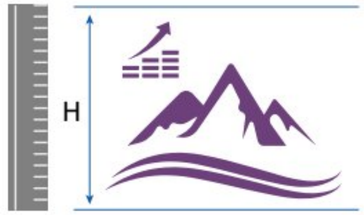


Stable Operation

The advantages of compact lightweight design and ultra-quiet operation meet more application environments, The MCL laser diode module has a service lifetime up to 30,000 hours (simulation test, not warranty time) and supports all weather 7x24 hours continuous operation.

Intelligent Altitude Detection

Sonnoc himalaya projectors equipped with built-in altitude pressure sensor, it will automatically detect the altitude and pressure density after turn on, AI intelligent algorithm can automatically adjust the heat dissipation according to the altitude pressure, ensure the projector can adapt to more complex altitude working conditions.



* Working altitude：0-3,000m(use high altitude mode for altitudes over 1,700m), In high altitude mode, the system will operate in the range of 0~35°C to ensure the normal operation of the projector.

Large Size DMD

The Himalayan series projectors using advanced DLP technology and 0.65 inch DMD chips, which are high cost and large size DMD chips with higher thermal stability and light efficiency characteristics.

Intelligent Light Sense Enhanced

Sonnoc himalaya series projectors have built-in light sensor, combined with Sonnoc AI image processing algorithm technology, which can automatically adjust the image quality color of the projected picture according to the change of the ambient light intensity. The projection site can adapt to the complex change of environmental illumination, improve the perception of the user's picture when the environmental illumination changes, and simplify the complicated adjustment of screen color parameters.

New Generation of Image Processing Optimization Technology

Sonnoc HSV™ color management system can independently adjust and control the hue, saturation and gain of 7 colors: red/green/blue/cyan/yellow/magenta/white (R/G/B/C/Y/M/W). It can also match the gamma curve parameters of different images independently. HSV color management system not only achieving single-projector color correction, but facilitates the calibration of color difference when multiple projector blending.

Newly Developed High Quality Optical Lenses

Compare to the previous generation of products, himalaya series 1080P long throw ratio models provide a 1.13~1.44:1 lens, shortened 25%~30% of the projection distance *2, further reducing light interference, greatly improving the utilization efficiency of projection space.

Sonnoc has developed a high-quality all-glass optical lens *1 for the himalaya series projectors for better light efficiency and image resolution.

For more interactive commercial application scenarios, himalaya series projectors provide 1080P and 4K UHD resolution models with 0.495:1 lenses to help creative people achieve better image presentation in exhibition, riding theater, near field interaction and other application scenarios.

*1：1080P/4K UHD not short throw ratio lenses.
*2：Compare to SNP-LC36DH(1.52~1.83:1 lens).

Convenient Wireless Projection

Sonnoc himalaya series projectors are equipped with the latest wireless projection technology, which can quickly display the screen content of mobile devices (smart phones, tablets, laptops, etc.) real-time on the projector, high-definition transmission, low latency, stable connection and smooth picture.

Support macOS/iPadOS/iOS/Android/Windows10&above

High Power Loudspeaker System

Sonnoc himalaya series projectors are designed with high-power sound reinforcement system, 16W loudspeakers with large diaphragm, large sound cavity and high pressure level. Achieving clear, loud sound playback even without external sound system.

4K Cinematic Quality Display

The himalaya series 4K UHD models reaching professional cinematic quality. Smooth picture pixels, no grid, no graininess, and the image details are subtle, which ensure the accurate reproduction of digital media art creation and ultra-high analytic content. All models of himalaya series are equipped with HDMI2.0 input port, compatible 4K@60Hz signal.