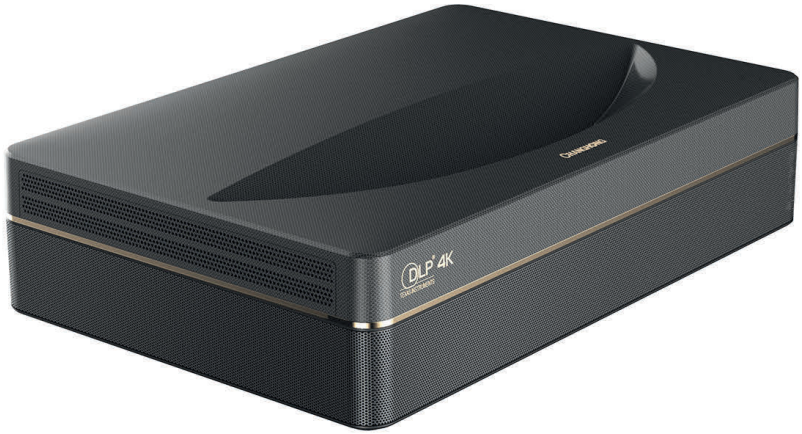
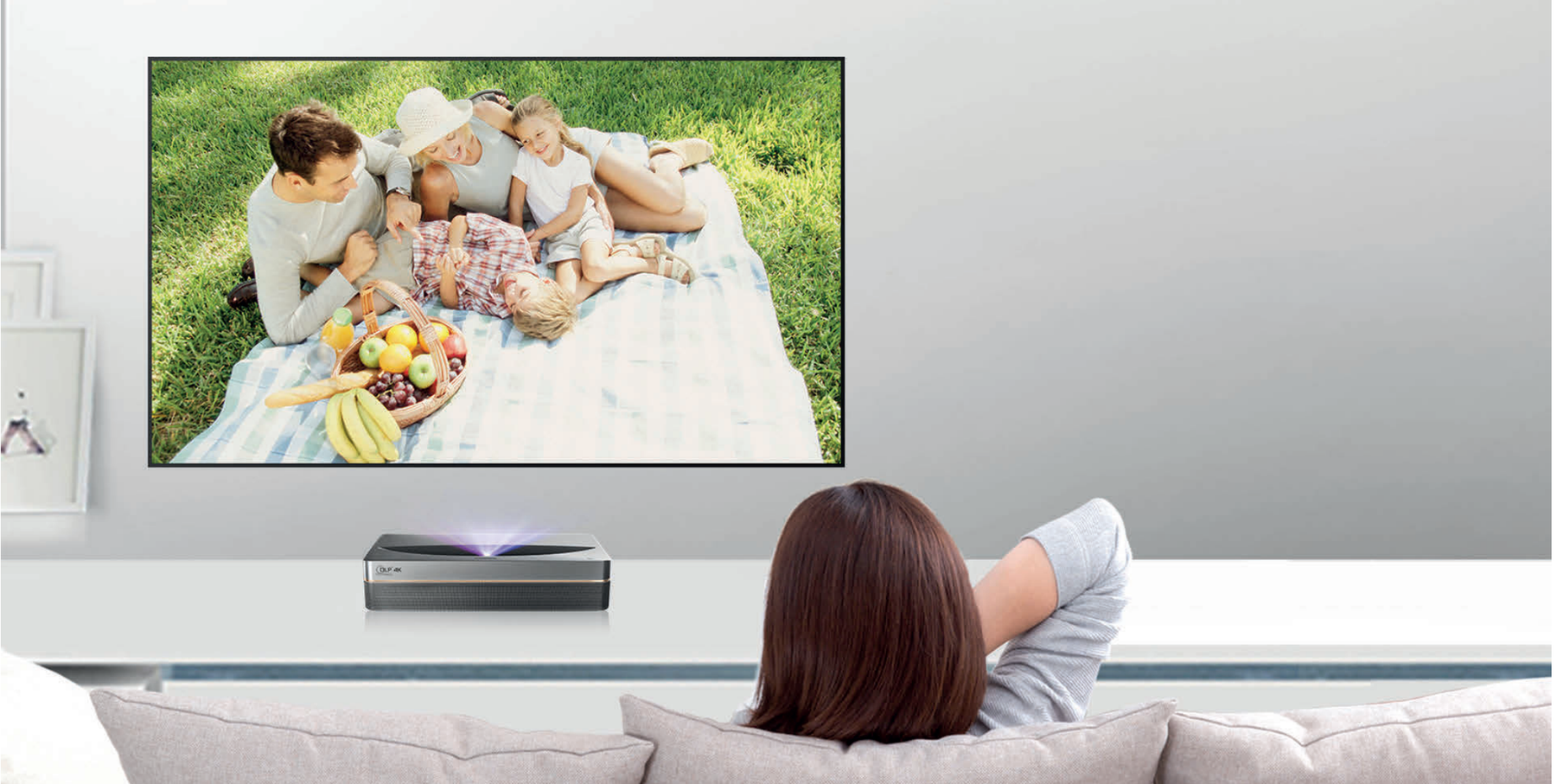
CHANGHONG
Make your imagination fly

Changhong Projector Range

Q2 2021





Brilliant projectors at the right price.

At home, office or a classroom, Changhong offers full range projectors from 4K laser to 1080p LED to meet your needs.

The projector market is evolving fast, new technologies make the application of projectors much wider than ever. Backed by changhong's over 60 years of experience on consumer electric R&D and manufacturing, we hold our position strong and we are confident to support our customers with the right products at the right price.

Changhong Laser Display

Ultra short throw - Home Cinema

LED Compact Ultra short throw -

Business/Education

Screens

Projectors

Ultra short throw - Home Cinema

Model name	CHiQ B5U	CHiQ A5U	V8S
			
Resolution	4K UHD (3840*2160)	4K UHD (3840*2160)	4K UHD (3840*2160)
Aspect ratio	16:9 native, 4:3 compatible	16:9 native, 4:3 compatible	16:9 native, 4:3 compatible
Brightness[1]	1900 ANSI lumens	2500 ANSI lumens	2500 ANSI lumens
Contrast	1500:1 Native	1500:1 Native	1500:1 Native
Lamp life (max hrs)[3]	25,000	25,000	25,000
Noise level (typical)[2]	30dB	33dB	32dB
Net Weight (kg)	9.70	9.70	9.70
Dimensions (W x D x H mm)	485*325*135	φ480*171.5	485*325*135
Throw ratio	0.21:1	0.21:1	0.21:1
Color Gamunt (NTSC Color Gamut)	130%	130%	130%
Image size (native)	19.50 - 28.8cm (100.0″ - 120″) diagonal 16:9	19.50 - 28.8cm (100.0″ - 120″) diagonal 16:9	19.50 - 28.8cm (100.0″ - 120″) diagonal 16:9
Keystone correction	N/A	N/A	8 Points
DLP Chipset	DLP DMD, 0.47″	DLP DMD, 0.47″	DLP DMD, 0.47″
Light Source	Solid state laser	Solid state laser	Solid state laser
Connections	Input: USB2.0*2, HDMI2.0*2 (1 with HDMI ARC), VGA, Audio input(L/R, φ3.5mm), Rj45 Output: Digital audio output (coaxial), Analog audio output(L/R, φ3.5mm)	Input: USB2.0*2, HDMI2.0*2 (1 with HDMI ARC), VGA, Audio input(L/R, φ3.5mm), Rj45 Output: Digital audio output (coaxial), Analog audio output(L/R, φ3.5mm)	Input: USB2.0*2, HDMI2.0*2 (1 with HDMI ARC), VGA, Audio input(L/R, φ3.5mm), Rj45 Output: Digital audio output (coaxial), Analog audio output(L/R, φ3.5mm)
Speaker (W)	10W *2	5W*1 with supplied 20W*2 External Speaker	10W*2
Wireless	2.4GHz/5GHz WiFi, Bluetooth 5.0	2.4GHz/5GHz WiFi, Bluetooth 5.0	2.4GHz/5GHz WiFi, Bluetooth 5.0
Storage	3GB DDR3 RAM + 64GB EMMC	3GB DDR3 RAM + 64GB EMMC	3GB DDR3 RAM + 64GB EMMC
Features	100″ @ 19.5cm, OTA Firmware Update, Customized Android 8.0 OS, Built-in Media Player	100″ @ 19.5cm, OTA Firmware Update, Customized Android 8.0 OS, Built-in Media Player	100″ @ 19.5cm, OTA Firmware Update, Customized Android 8.0 OS, Built-in Media Player

Ultra short throw - Business/Education

E5F36	E5W36	E5X36
		
1080p FHD (1920 x 1080)	WXGA (1280 x 800)	XGA (1024 x 768)
16:9 native, 4:3 compatible	16:9 native, 4:3 compatible	16:9 native, 4:3 compatible
3600 ANSI lumens	3600 ANSI lumens	3600 ANSI lumens
35,000:1	35,000:1	35,000:1
25,000	25,000	25,000
33dB	32dB	32dB
5.0	5.0	5.0
381*382*147	381*382*147	381 x 382 x 147
0.233:1	0.233:1	0.276:1
100%	100%	100%
22.60 - 32.90cm (100.0″ - 120″) diagonal 16:9	21.20 - 31.20cm (100.0″ - 120″) diagonal 16:9	31.20 - 41.90cm (100.0″ - 120″) diagonal 16:9
Vertical ±40°	Vertical ±40°	Vertical ±40°
DLP DMD, 0.65″	DLP DMD, 0.65″	DLP DMD, 0.55″
Solid state laser	Solid state laser	Solid state laser
HDMI*2, USB 2.0*1,RJ45*1, VGA IN (Computer/D-sub)*2, AV Input*1,VGA Audio input*1, VGA OUT *1 (combine with VGA2 IN), Analog audio output*1, digital audio*1, RS232*1, Debug interface*1	HDMI*2, USB 2.0*1,RJ45*1, VGA IN (Computer/D-sub)*2, AV Input*1,VGA Audio input*1, VGA OUT *1 (combine with VGA2 IN), Analog audio output*1, digital audio*1, RS232*1, Debug interface*1	HDMI*2, USB 2.0*1,RJ45*1, VGA IN (Computer/D-sub)*2, AV Input*1,VGA Audio input*1, VGA OUT *1 (combine with VGA2 IN), Analog audio output*1, digital audio*1, RS232*1, Debug interface *1
10W*1	10W*1	10W*1
N/A	N/A	N/A
1GB RAM + 4GB Flash	1GB RAM + 4GB Flash	1GB RAM + 4GB Flash
100″ @ 22.60cm, RS232 Control Port, Customized Android 5.0 OS, Built-in Media Player	100″ @ 21.20cm, RS232 Control Port, Customized Androiid 5.0 OS, Built-in Media Player	100″ @31.20cm, RS232 Control Port, Customized Android 5.0 OS, Built-in Media Palyer

Projectors

LED Compact

Model name	M3000	M4000
		
Resolution	1080p FHD (1920 x 1080)	1080p FHD (1920 x 1080)
Aspect ratio	16:10 native, 16:9 / 4:3 compatible	16:10 native, 16:9 / 4:3 compatible
Brightness[1]	800 ANSI lumens	1300 ANSI lumens
Contrast	8000:1-10000:1	8000:1-10000:1
Lamp life (max hrs)[3]	30,000	30,000
Noise level (typical)[2]	30dB	30dB
Weight (kg)	2.08	4.63
Dimensions (W x D x H mm)	198 x 192 x 123	227x 198 x 123
Throw ratio	1.2:1	1.2:1
Color Gamunt (NTSC Color Gamut)	135%	135%
Image size (native)	2.1-2.66m (80.0″ - 100″) diagonal 16:9	2.16 - 2.92m (85.0″ - 115″) diagonal 16:9
Keystone correction	4/8 Points	4/8 Points
DLP Chipset	DLP DMD, 0.33″	DLP DMD, 0.47″
Light Source	LED	LED
Connections	1x HDMI (with ARC), Audio out 3.5mm, S/PDIF Optical output, 1 x USB 2.0, RJ45	1x HDMI (with ARC), Audio out 3.5mm, S/PDIF Optical output, 1 x USB 2.0, RJ45
Speaker (W)	3W *2	5W *2
Wireless	2.4GHz/5GHz WiFi, Bluetooth 5.0	2.4GHz/5GHz WiFi, Bluetooth 5.0
Storage	3GB DDR3 RAM + 32GB EMMC	3GB DDR3 RAM + 32GB EMMC
Features	Active 3D, HDR10, MEMC, Low latency, Customized Android 9.0 OS, Built-in Media Player	Active 3D, HDR10, MEMC, Low latency, Customized Android 9.0 OS, Built-in Media Player

Screens

Fixed Frame - Fresnel ALR for UST

Model name	S100FX	S90FX
		
Format	16:9	16:9
Gain	1.2	1.2
Screen material	Fresnel ALR	Fresnel ALR
Viewing size (W x H mm)	2214 x 1245	1992 x 784
Diagonal viewing (inch)	100	90
Border Width (mm)	6.8	6.8
Visible Edge Thickness (mm)	6.8	6.8
Viewing Angle	120°	120°
Weight (kg)	56	43
Case dimensions (W x D x H mm)	2340 x 1370 x 110	1897 x 1122 x 110

Fixed Frame - Magnetic Fresnel ALR for UST

Model name	S100FS	S90FS
		
Format	16:9	16:9
Gain	1.2	1.2
Screen material	Fresnel ALR	Fresnel ALR
Viewing size (W x H mm)	2214 x 1245	1992 x 784
Diagonal viewing (inch)	100	90
Border Width (mm)	6.8	6.8
Visible Edge Thickness (mm)	6.8	6.8
Viewing Angle	120°	120°
Weight (kg)	56	43
Case dimensions (W x D x H mm)	2340 x 1370 x 110	1897 x 1122 x 110

Fixed Frame - Black Grid ALR for UST

S100CK	S120CK
	
16:9	16:9
0.6	0.6
Black Grid ALR	Black Grid ALR
2214 x 1245	2657 x 1046
100	120
6.8	6.8
6.8	6.8
170°	170°
9.06	15.5
1505 x 300 x 170	2750 x 290 x 150

Fixed Frame - Magnetic Rollable Fresnel ALR for Standard/long throw

S80FCL	S100FCL
	
16:9	16:9
2.0	2.0
Magnetic Rollable Fresnel ALR	Magnetic Rollable Fresnel ALR
1771 x 697	2214 x 1245
80	100
5	5
5	5
⩾64°	⩾64°
4.4	6.9
1470 x 319 x 290	1470 x 319 x 290

Glossary

4K
4K Ultra HD provides four times as many pixels as Full HD 1080p. That' s 8.3 million on screen pixels (3840 x 2160) bringing greater realism to every scene with thrilling detail, colour and contrast.

Laser
Laser light source offers a long-lasting (25,000 hours on average), virtually instant and consistent brightness that other light source could not match with high contrast ratio.

Full HD 1080p
1080p resolution gives you sharp and detailed images from HD content without downscaling or compression; perfect for watching Blu-ray movies, HD broadcasting and playing video games.

HDR compatible
Capable of receiving and displaying HDR meta data, HDR compatible projectors allow you to see far more detail and texture for lifelike images with a greater sense of depth.

DLP-Link Active 3D
DLP-Link Active 3D projectors can display true 3D content from almost any 3D source, including 3D Blu-ray players, 3D broadcasting and the latest generation games consoles.

LED
Lamp free LED projectors are more energy-efficient than lamp based projectors and have a much longer life span (up to 30,000 hours).

Android™
With built in Android you can download popular apps such as Netflix and YouTube.

Media player
A handy integrated media player means you can use the projector as a stand-alone device, retrieving content from the internal memory, USB stick or a memory card.

Key definitions

All Changhong projectors use DLP® technology, pioneered by Texas Instruments. This technology uses millions of mirrors to produce high quality images and ensures the projectors do not suffer colour degradation over time.

Resolution
A projector's native resolution is the number of pixels that it has available to create an image. The greater the resolution of a projector,
the greater the detail and sharpness of the projected image.

Brightness
Brightness is the light output of the projector. The brightness rating (ANSI lumen) is a measurement of the light energy being generated by the projector itself.

Contrast
Contrast is the difference between the brightest and darkest parts in an image. A high contrast is particularly important for home projectors as it produces a picture with a deeper black level and clearly defined shadow detail.

Aspect ratio
A projector's aspect ratio refers to the ratio between its width and height. For example, a 4:3 display produces an image that is more square, where a 16:9 ratio produces an image that is more rectangular in shape. The most common video projector aspect ratios are 4:3 (XGA and SXGA), 16:10 (WXGA and WUXGA) and 16:9 (standard HDTV, 1080p).

Throw ratio
Throw ratio is the ratio between the projection distance and image width. For example, a throw ratio of 2:1 means to achieve every unit of screen width requires 2 units of projection distance. Normally quoted as a range as most projectors have a zoom facility.

Keystone correction
Keystone correction is performed digitally before the image passes through the lens. It can be used to manipulate the projected image vertically and/or horizontally so that you can get it as close to an even rectangle as possible.

MEMC
MEMC (Motion Estimation, Motion Compensation) is a frame-interpolation technology that artificially adds additional frames between original frames, bringing the content with conventional 24 or 30 frames per second to around 60 frames per second. The technology makes content appear smooth and transitions lively.

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