

What is a good projector--take Dangbei Mars Pro as an example?

The private home theater with stunning picture effects and a better viewing experience is attracting more people. This article will clarify the important parameters of home projector buying tips. And we will take Dangbei Mars Pro as an example.



New York City, New York May 16, 2022 ([Issuewire.com](https://www.issuewire.com)) - The private home theater with stunning picture effects and a better viewing experience is attracting more and more people. With a much larger image, we can capture more details than what is on a small TV screen. Although many people have the

idea of buying a projector, they don't know how to buy one in the face of the endless array of projector products and various technical parameters. This article will clarify the important parameters of home projector buying tips so that you will no longer be confused when shopping. **And we will take the Dangbei Mars Pro as an example. Dangbei Mars Pro is a newly released 4K laser projector with several intelligent functions and attractive features.**

Light source

The projection light source of a projector is the light emitted by the projection lens, which is the core component of the projector. It determines the brightness, color, and light source life of the projector. In the lower-end market, LED projectors maintain a consistent advantage in color performance and projection effect, with a larger market share. In the high-end market, the projection effect of HLD projectors adheres to the advantages of LED projectors, which can achieve projection effects to meet the pursuit of users, but the hardness of brightness limits its use on certain occasions. The laser projector has the advantages of high brightness, and wide applicability, while its color expression is also very good, the price is also more expensive than the HLD projector. Laser light source life can reach more than 25000 hours. At 10 hours per day, it has a lifespan of up to 8 years, and at least 10 years at 8 hours per day. Also, the claim that light sources slowly diminish in brightness over time is true for the ultra high-pressure mercury lamps used in projectors. Theoretically, due to the longer lifespan, laser light sources are able to maintain their brightness for a very long time without fading. [Dangbei Mars Pro](#) **adopts a laser light source, which has a good ability to reduce the influence of ambient light so as to keep the native color of the picture.**

Brightness

As the name implies, brightness is the level of light emitted by the projector. The higher the brightness, the clearer the projection picture, the lower the brightness, the more blurred the projection picture. ANSI lumen is the main technical indicator of a projector. It is now more commonly accepted internationally. Usually, the brightness of home projectors is between 1000~3000lm. Theoretically, the ambient light is too strong during the day and you need to do blackout treatment (using curtains/blackout cloths and other blackout measures) when using the projector during the day. However, due to the increasing demand for daytime use of projectors these days, many projector manufacturers are also increasing the brightness of their projectors to meet market demand. **Dangbei Mars Pro, the 4K laser projector released by Dangbei in 2021, revolutionarily adopts 3200 ANSI lumens of brightness.** The 3200 ANSI lumens almost reach the top of the projectors industry. Even in daylight conditions, it can still maintain the much better brightness of the picture to ensure the best viewing experience than other ordinary projectors.

Resolution

The resolution determines the clarity of the picture. The **native resolution** is also called physical resolution or standard resolution and refers to the physical pixels of the TFT-LCD used. It has to correspond to the logical points output by the graphics card, so LCD screens often have only one optimal display resolution. **Supported resolution** is also called the compatible resolution, which refers to the resolution of the input signal that can be supported. It is not necessarily related to the actual picture displayed on the screen. For example, if a projector has a standard resolution of 720P and a compatible resolution of 1080P, then it will compress the 1080P picture to 720P and play it back without showing that it is not compatible with that format. **So when buying a projector, you should pay more attention to the standard resolution, which is the physical resolution.**

Contrast ratio

Put it simply, the contrast ratio is the ratio of the luminance of the brightest shade (white) to that of the darkest shade (black) that the system is capable of producing. Generally speaking, the greater the contrast ratio, the more gradations from black to white, and the richer the color performance of the projector. For home projectors, the contrast ratio of the picture is a very important parameter. This is because the contrast ratio has a great impact on the visual effect of the image presented. Generally speaking, the greater the contrast ratio, the clearer and more brilliant the image is, and the more vivid and colorful the projected image is; on the contrary, the smaller the contrast ratio, the grayer and darker the image is, and the less clear the image is, which makes users feel that their eyes are blocked by fog. In addition, high contrast ratio has a great impact on the clarity, detail, and gray level of the projected image. To sum up, when you buy a projector, it's always a good idea to go for high contrast.

Throw ratio&projection size

Throw ratio is the ratio of throw distance to screen width. $\text{Throw ratio} = \text{throw distance} / \text{screen width}$. The larger the throw ratio, the greater the distance required for the same screen size. Put it simply, Throw distance is the distance from the projector lens to the screen. At present, the common throw ratio of home projectors is 1.2:1. You can decide what projection ratio to choose based on the size of the projection space in your home. The projection size also depends on the size of the projection screen. Of course the larger the projection size, the better the viewing experience. **Dangbei Mars Pro supports screen sizes from 60 to 300, allowing you to switch from a large range of screen sizes based on different usage scenarios.**



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