

# UDX series

Laser phosphor high-brightness projectors for large venues and events



**BARCO**

# UDX. Unbelievable

More and more, we want to be wowed by unique and unbelievable experiences. That's why events and venues require dazzling, high-resolution images. Together with our key customers, we created a game-changing projection platform.

The UDX platform is the most compact high-brightness laser projection platform with integrated cooling on the market. It enables rental companies and venue owners to provide stunning experiences while saving both time and money.

Choose for the future today – and reap the benefits for many years to come.



## **Unbelievable performance**

Thanks to their advanced optical design, the UDX projectors deliver razor-sharp, high-resolution images with up to 4K UHD resolution and up to 32,000 lumens. Moreover, the Constant Light Output (CLO) functionality guarantees constant brightness and color over time. Equipped with 3-chip DLP® technology and a high-contrast optical engine, the projectors excel in brightness, color accuracy, and stability. So, you can guarantee a flawless performance at all times. Moreover, it reuses our existing TLD+ lens range, offering an unparalleled lens shift of up to 130% up and down without loss of image quality.

## **Unbelievable colors**

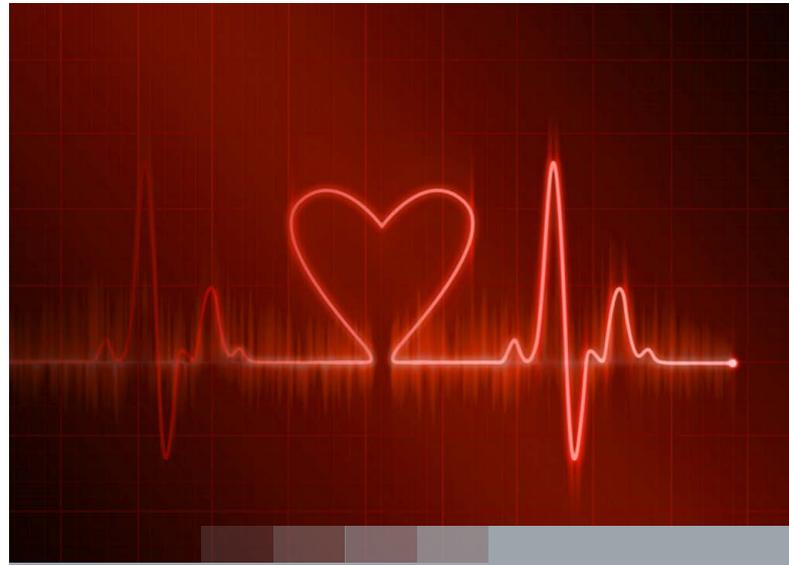
Compared to other laser phosphor projectors, the UDX platform offers the widest color spectrum in the industry. At full brightness mode, the UDX color quality matches the renowned Xenon quality of our HDX and HDF series and outperforms the Rec. 709 color space. This allows for an accurate color reproduction at all times. While laser illumination gives more freedom to trade off colors to boost brightness, Barco doesn't compromise on color to reach high brightness.

## **Unbelievable lifetime, reliability and flexibility**

With the UDX, you increase uptime while driving costs down. Thanks to their laser phosphor light source, lamp-related costs and maintenance as well as image flicker belong to the past. They deliver a long lifetime and a high reliability to ensure minimum downtime. In addition, you have the freedom to install the projectors in any orientation.

Barco has taken a big step forward. The UDX is a big game-changer in laser projection technology.

Niclas Ljung  
CTO, Mediatec



## Unbelievable processing with Barco Pulse

The beating heart of the UDX projectors? That's the Barco Pulse processing! Barco Pulse is the 4K electronics backbone that's integrated in all new projection platforms. It offers an intuitive interface and flexible, user-friendly, embedded control software. Its unique Single Step Processing (SSP) technology enables our projectors to achieve 4K Ultra High Definition (UHD) resolution in only one step. This results in a sharper image, less latency, and less dark time than comparable solutions on the market.

### Unbelievably easy to ship and set up

Thanks to its compact and rugged design, the UDX also enables you to reduce your shipping and labor costs. They're the most compact, high-brightness laser projectors for events and large venues on the market. That's why they not only make shipping and transport easier, their flight cases take up less space in your truck too. Rigging and stacking? Done in a breeze!

### Unbelievably simple maintenance

The UDX's design is not only compact and rugged, it's fully modular too. Its building blocks can be quickly removed and replaced so that the time you spend on servicing your projector is kept to a bare minimum. What's more, Barco's Pulse electronics – used on all new projection platforms – share the same modular design philosophy. So, your projector is future-proof, and you can tap into the latest features at all times.

### Unbelievable choice in brightness and resolution

The unique FLEX<sup>2</sup> feature allows you to tune and lock both your projector brightness – in 1,000-lumen incremental steps – and resolution to a specific show. The UDX can display native 4K UHD, WQXGA, WUXGA and UXGA content without brightness loss. This way, you need fewer projectors to cover a wider range of brightness levels and resolutions. And you increase the utility of your rental fleet and reduce the time your products spend on the shelf. Plus, you avoid renting out high-brightness or high-resolution projectors at lower rates. So, you not only maximize customer satisfaction but also your return on asset.

# A family of five



The UDX range combines high performance in a compact and rugged design. This family of five models brings colorful, razor-sharp and high-brightness images to every type of event or venue.

## UDX-W22

22,000 lumens light output

1,920 x 1,200 resolution

2,000:1 contrast ratio

16:10 aspect ratio

## UDX-4K22

21,000 lumens light output

3,840 x 2,400 resolution

2,000:1 contrast ratio

16:10 aspect ratio

UDX will revolutionize  
the way we work, now  
and into the future.

**Danny Whetstone,**  
Founder and President, DWP Live

The UDX will take the market by storm. It will change the game for a lot of rental houses.

**Adam Benjamin**  
CEO, Fuse Technical Group



### **UDX-U32**

30,000 lumens light output

1,600 x 1,200 resolution

2,000:1 contrast ratio

4:3 aspect ratio

### **UDX-W32**

32,000 lumens light output

1,920 x 1,200 resolution

2,000:1 contrast ratio

16:10 aspect ratio

### **UDX-4K32**

31,000 lumens light output

3,840 x 2,400 resolution

2,000:1 contrast ratio

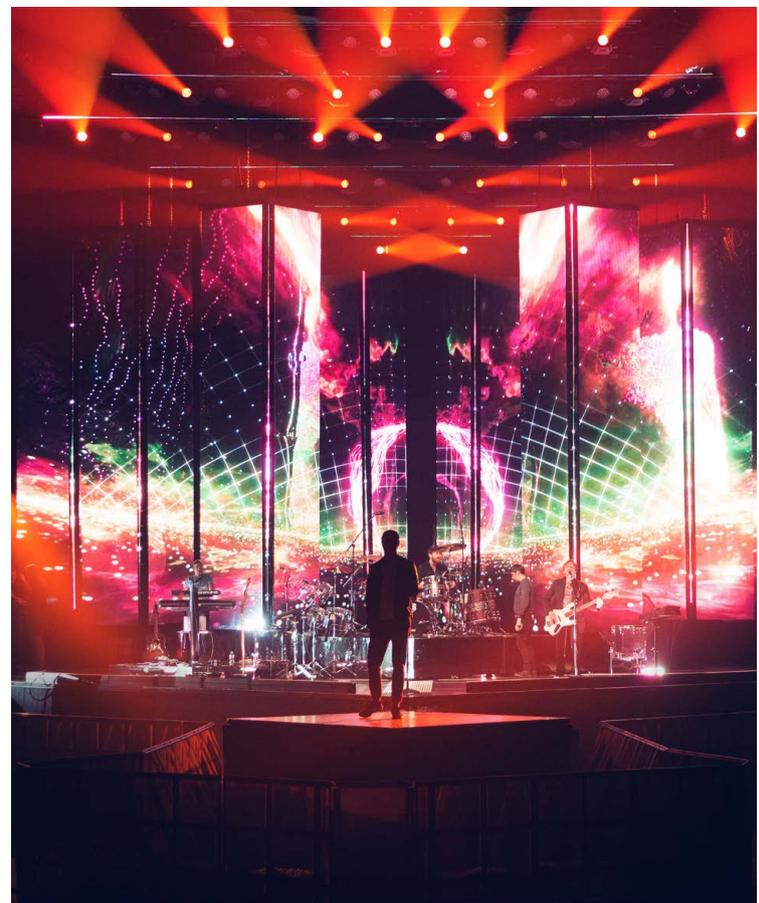
16:10 aspect ratio

# The legacy continues

For years, Barco has been leading the large venue and events industry with its renowned HDX, HDF, and HDQ projector platforms – bringing pristine images to the greatest shows around the world. We know from experience how demanding live events are. So, we've developed our projectors to be your ultimate tools for creating the most astonishing shows.

Powerful event workhorses that excel in image quality, reliability, and modularity, the HDX, HDF, and HDQ ranges have a strong reputation in the rental and staging industry.

The UDX is set to continue their legacy, now and well into the future.



The UDX fulfills the requirements we are looking for.

**Thomas Gellermann**  
Head of R&D, Kraftwerk

## Trust in what you already know

Why change the things you like and trust? We've integrated the acclaimed features of our HDX, HDF, and HDQ projectors into the UDX platform.

### Reuse your lenses

If you already own a Barco large venue projector, you can simply reuse the lenses on the UDX projectors. There's no need to replace your existing lens fleet or invest in new lens gear. If you've selected our high-quality, glass TLD+ lens range with variable throw ratio in the past, you can reap the benefits from your investment again. And through their unparalleled **lens shift** of up to 130% up and down the UDX projectors accommodate a wide range of configurations.

### Masters in modularity

All around the globe, rental houses and venue owners have praised the modularity of the Barco large venue projectors. The UDX projectors continue this design philosophy. Their clever, modular design ensures fast and simple maintenance and maximum uptime.



## Why we selected DLP® technology?

DLP is Barco's preferred technology for stable, high-quality performance in high-brightness applications.

By design, DLP is best suited for high-brightness applications thanks to its ability to cope with high energy levels. DLP panels use mirrors, so the majority of the light/heat is reflected and not absorbed – as opposed to other transmissive technologies like LCD. In addition, the DLP panel can be more efficiently cooled through liquid cooling which further improves stability and lifetime. As a consequence, DLP is also better suited in combination with laser phosphor illumination.

In addition to the durability against heat, color uniformity doesn't change over time, as there are no organic components to degrade. It's easy to seal against dust and the information transmitted by one pixel doesn't influence the neighboring pixel.

## Why we chose for laser phosphor illumination?

Xenon illumination has been the standard for high brightness levels and great colors in large venue projection. By making the right design choices, Barco is now able to meet the color performance of Xenon, while providing several benefits of solid state illumination:

- Longer lifetime and constant brightness over time
- Higher optical efficiency
- Flexible installation orientation
- No image flicker or sudden lamp failures (inherent redundancy)

Laser phosphor delivers the benefits of solid-state illumination in a cost-effective and compact way, which is required for the live events and large venue market applications. In cinema – where the size of the projectors is significantly larger – Barco uses RGB laser illumination for even better colors.

**Read our white papers on [www.barco.com/UDX](http://www.barco.com/UDX) for more in-depth info on these topics.**