



Simulation: die Zwei Heimkino

DIE ZWEI HEIMKINO

CUSTOMER SUCCESS STORY

HOME CINEMA AT ITS BEST

SEPTEMBER 2022

HOW AN AV PLANNER FOR LUXURY HOME CINEMAS PROVIDES CUSTOMERS WITH INTELLIGENT POWER SOLUTIONS FOR MORE COMFORT AND POWER SAVINGS

A wealthy client wants a home cinema with excellent cinema technology in his own home. For this purpose, a separate building is being constructed in which the ambitious project is to be realised.



OBJECTIVES

1. Monitoring and control of the home cinema installation. Use of additional temperature sensors to control the rack ventilation.
2. Any media playback problems that occur are dealt with promptly and without the need for on-site service.
3. Controlled shutdown of the cinema technology allows saving electricity costs of the installation.

PRODUCT SOLUTIONS

- 2x Expert Power Control 8221-1
- 4x GUDE Temperature Sensors

Switched IP power distributor for 19" racks with 2x6 load outlets and connection of monitoring sensors

Die Zwei - Heimkino GmbH was commissioned with the planning and implementation. Die Zwei is a company specialising in luxury home cinemas, based in Wiefelstede near Oldenburg

Due to its professional expertise, the company has made a name for itself far beyond the borders of Germany. A central claim here is to offer a high level of quality and customer orientation. This is reflected both in the attention to detail in the implementation and in the exclusive selection of premium brands within the project.

Initial situation

The client of the project already had a home cinema in his living room, but in the end it was not enough for his needs. A new and much more professional cinema was needed. In order for this dream to become reality within his own four walls, an extension to his existing house even had to be planned.

The realisation

The cinema room and the audio/video technology could be adapted to the client's individual needs from the very beginning. After all, this was a completely new building, which offered a great deal of creative freedom in the design of the technical solution, in addition to the architectural conditions.

|| *No compromises were made in the design and choice of components for this demanding project. GUDE's intelligent power strips have enhanced the installation through increased safety and control. And convinced the customer with less downtime and lower electricity costs. The PDUs are real problem solvers.*



Beautifully set in scene: The two AV racks also house the two Expert Power Control 8221-1 for improved power supply and control.

Photo: Die Zwei Heimkino



Thorsten Köhler
Managing Director
Die Zwei - Heimkino GmbH

The specialist planner worked out the following planning requirements with the cinema-enthusiastic client:

- Uncompromising "in-the-face" cinema sound
- The largest possible cinema image within the framework of the spatial conditions
- Comfortable and reliable control of the AV infrastructure
- Cost-saving power distribution that can be controlled and managed both automatically and manually
- Remote restart of the cinema technology in case of playback problems

For the image technology implementation, a curved screen with 10% curvature was chosen. The necessary geometry correction of the image is carried out by a separate video processor, which also takes over additional information for the automated control of the screen masking.

One challenge in the project was the relatively small technical room. Here, two control cabinets with 37 height units each were employed. Rollable racks were used so that the AV devices in the 19-inch racks could be easily reached: This allows the control cabinets to be rolled out of the technical niche as needed.

No compromises were made on the subject of operational safety in the private installation either. A high degree of safety and control were important to the user. For this purpose, the cinema planner chose two network-compatible power distribution units (PDU) from the GUDE range: The Expert Power Control 8221-1 has 2x6 IEC C13 connections on the back of the unit. Consequently, 12 AV devices could be supplied with power and controlled per PDU.



From the simulation ...



... to implementation.

Simulation/photo: Die Zwei Heimkino



A separate annexe was built for the luxury home cinema.
Photo: Die Zwei Heimkino

THE REALISATION OF A PERFECT HOME CINEMA REQUIRES INTELLIGENT POWER SOLUTIONS

Thanks to the double IEC C20 supply lines of 16 A each, a total switching capacity of 7500 W is possible. Furthermore, additional temperature sensors have been connected to the IP power strips. This gives the home cinema owner an insight into the ambient conditions in real time. Moreover, the installed fan in the rack niche is switched on by the Crestron control, if predefined threshold values are exceeded.

In fact, the Expert Power Control 8221-1 units installed in the racks are the only components that allow the complex overall system to be operated comfortably by the higher-level Crestron control system: by pressing a button on the wall-mounted touch panel installed next to the racks, the entire system is switched on according to a precisely pre-defined schedule. This ensures smooth functioning of the AV chain while avoiding voltage peaks. Even when switching off, a predefined sequence is followed, especially to prevent switching-off noises that could damage the loudspeakers.

The challenges mastered in the home cinema project

- High-quality cinema technology requires appropriate protection devices.
- It is possible to control a large number of consumers easily and conveniently. In particular, the maximum switching capacity of the AV devices is taken into account.
- Accommodation of the AV technology in a room niche, as no separate room is available.
- When switching on, an exact switch-on sequence of the units is followed to ensure proper functioning of the playback chain. The same applies when switching off, in order to avoid unpleasant noise.
- Decisive control over the power supply is desired.
- Excessive power consumption due to continuous operation is avoided.

The home cinema specialist was also able to score points with his client for low maintenance costs thanks to the easy remote access via the Expert Power Control 8221-1: in the event of a problem, it is possible for him not to annoy the customer with high-priced service costs, but to offer fast and inexpensive maintenance. Thanks to the integrated self-healing function and the distance access, a remote reboot can be initiated promptly. The result: there is no need to travel to the site, the troubleshooting costs little time and money, and the customer can continue watching his film or live sporting event without long interruptions.



The home cinema has five seats and allows for comfortable operation using GUDE's IP power strips in conjunction with a Crestron control system.

Photo: Die Zwei Heimkino

In particular, the ability to remotely switch on the devices helps to change the programming of the Crestron control system. Without any further intervention by the customer, the experts from *Die Zwei* can switch devices on and off themselves to test the proper functioning of the programming. And at the end of the assignment, they can also independently switch the system off again.

Contact us for further information



GUDE Systems GmbH
Von-der-Wettern-Str. 23
51149 Köln

Tel.: +49 221 985 925 0
Mail: info@gude-systems.com
Web: www.gude-systems.com