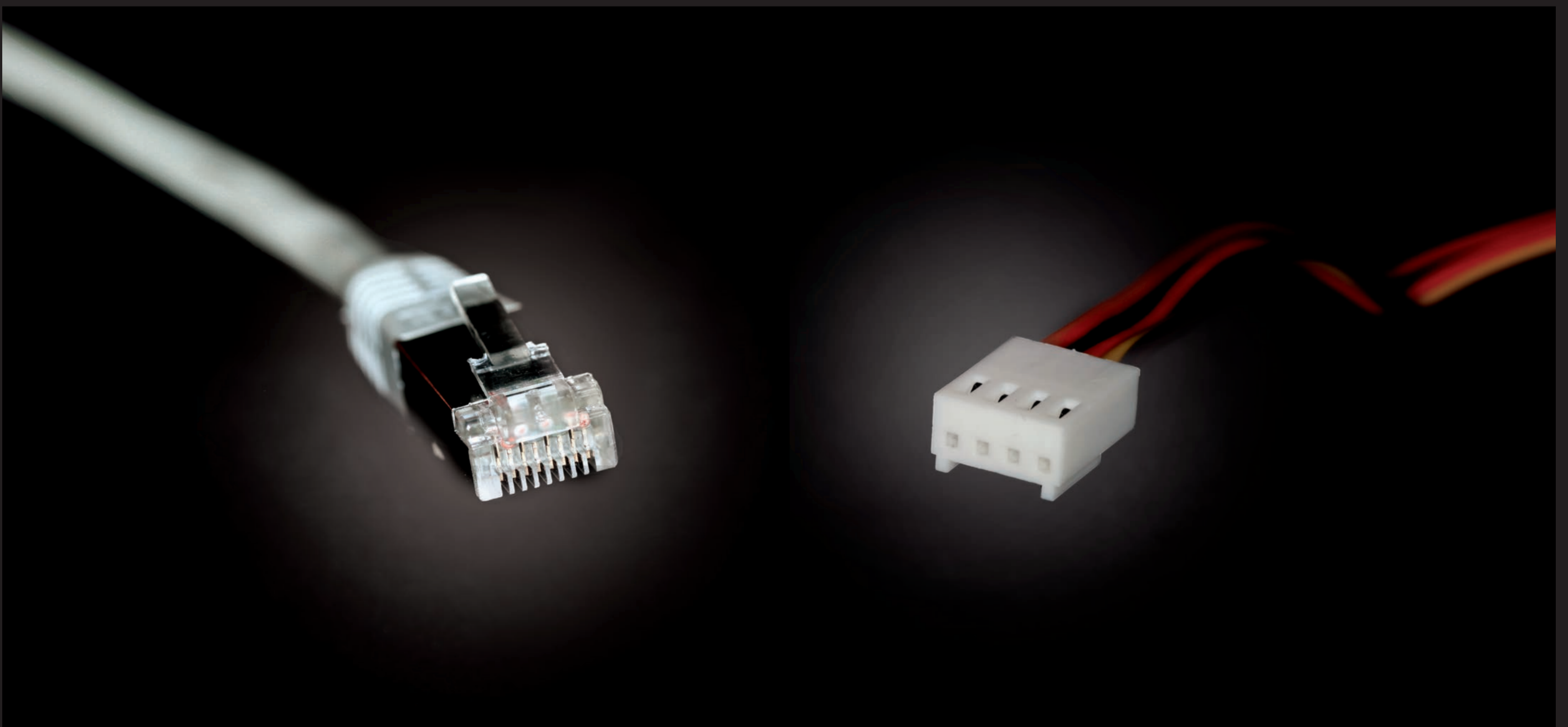


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SYSTEMS

LED Effects Technology for professionals.

Schnick-Schnack-Systems proudly announces:
Generation 3



Design Targets

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- Full Compatibility with DMX, ArtNet, sACN, DVI, SDI
- More than 512 Channels
- 60 fps Compatibility
- Variable Transmission Speed
- System Wide Sync
- Easy Addressing
- Easy Feedback

Conclusion:
Design targets cannot be reached using DMX and ArtNet based systems

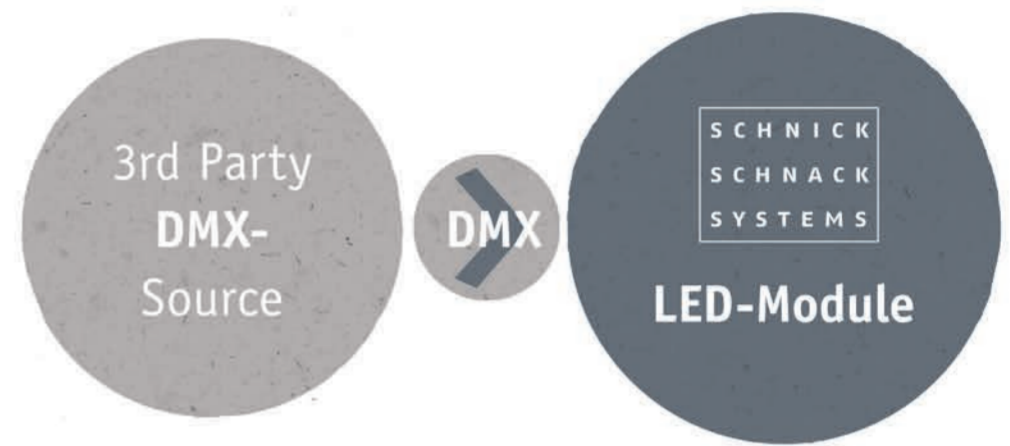
Solution: Two new Signals



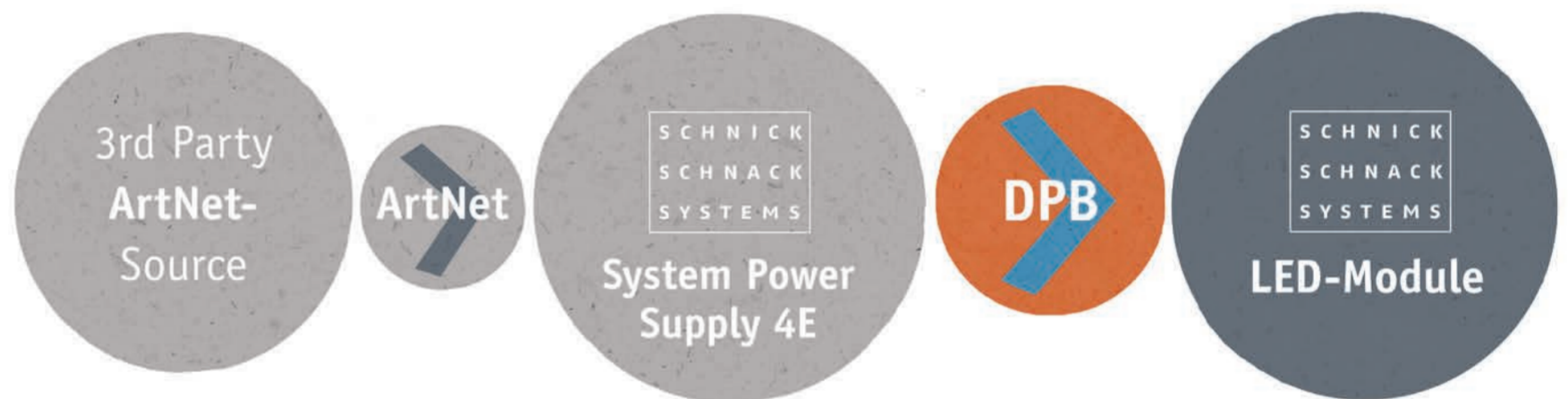
new Dynamic-Pixel-Bus (DPB)

- DPB replaces DMX (in internal connections)
- Full Compatibility to DMX
- More than 512 Channels
- 60 fps Compatibility
- Variable Transmission Speed
- System Wide Sync
- Easy Addressing
- Easy Feedback
- Easy Firmware Updates

DMX-Compatibility



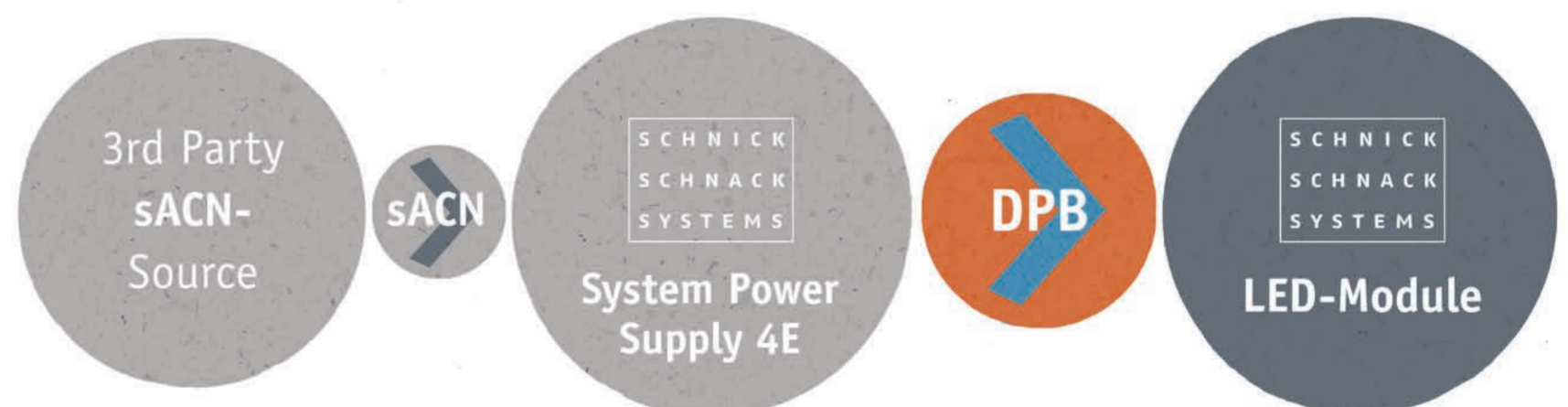
ArtNet-Compatibility



new Schnicket

- extends the functionality of ArtNet or sACN
- System Wide Sync
- Easy Feedback
- Easy Firmware Updates

sACN-Compatibility



DVI-Compatibility



Schnick-Schnack-Systems proudly announces: **Generation 3**

System Wide Sync

When video data is transmitted, the last pixel in the frame receives its information nearly an entire frame later than the first pixel. The same is true for the channels of the DMX frames. Because of this delay, horizontally moving edges appear torn or disjointed.

No more image distortion thanks to our System Wide Sync.

60 fps Compatibility

When video signals are used to control LED systems, it's essential for both systems to support the same high frame rate. With the DMX512 it's only possible to transmit 44 full frames per second. This is not enough to be compatible with a 60 fps video source, which is why movement appears disrupted. To solve this problem, our new Generation 3 is 60 fps compatible.

Motion remains fluid thanks to our 60 fps Compatibility.

Smart Link

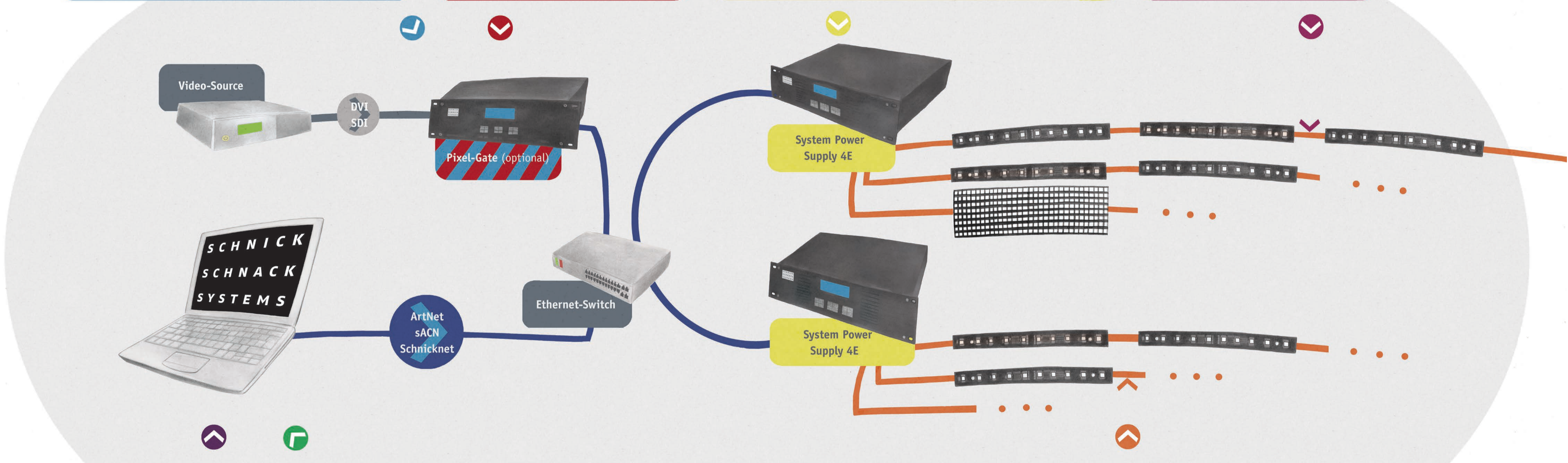
Addressing thousands of LED components, which is common for large installations, is time-consuming. Our Smart Link Technology reduces the number of components to be addressed by using the existing wiring sequence. As a result, the set-up and start-up times are considerably lower, the system complexity is reduced and the service is simplified.

Valuable time is saved thanks to our Smart Link Addressing

High Reliability

Standard DMX drivers can get lost as a result of common errors such as static discharge or damaged power and data cables. The LED Products (MK2) from Schnick-Schnack-Systems can handle fluctuations of static discharge and supply voltage (+24 V) on the data lines. Many largely automatic reset fuses also prevent damage to system components.

Extreme reliability thanks to numerous safety circuits.



Firmware Update

Upgrading firmware is often elaborate and time-consuming. With the new Update Function from Schnick-Schnack-Systems, all devices can be upgraded within a few minutes from one central point. Thanks to routine updates, the system can cope with future protocols and demands.

Fast and easily extendable for future demands.

Easy Feedback

With just two mouse clicks, the PixelPatch software retrieves all of the system's LED components and displays errors in color. For this to happen, the already existing patch is used. Never before has it been easier to ensure the perfect functioning of a complex system or, more specifically, to find errors quickly and more effectively.

Easier and faster system overview thanks to our Easy Feedback.

Full Compatibility

with
DMX, ArtNet, sACN, SDI

Dynamic-Pixel-Bus

More than 512 Channels

LEDs are small and inexpensive – that's why their numbers for installations are growing considerably. However, DMX-based systems are limited to 512 channels per cable. The Dynamic-Pixel-Bus enables up to 3,072 channels on one cable saving system power supplies and making products with more LEDs possible.

More LEDs on one cable thanks to increased number of channels.

DPB replaces DMX Speed

Speed	DMX	DPB
0,25 Mbit	0,25	0,25
0,5 Mbit	0,5	0,5
1 Mbit	1	1
1,5 Mbit	1,5	1,5
3 Mbit	3	3

Variable Transmission Rates

In order to gain more channels and achieve higher frame rates, the speed of transmission in the system must be raised. Unfortunately, higher speeds increase the rate of errors on the transmission lines or reduce the possible cable lengths. That's why the Dynamic-Pixel-Bus enables a variable rate of transmission that can be adapted to the special needs of an installation.

The variable transmission rates enable the best, customized balance of channel count, frame and error rate.

Error Detection

DMX does not support error detection. On poor quality data lines this can cause flickering. The Dynamic-Pixel-Bus offers reliable error detection through checksum functions.

Reliable error detection by using checksums.

Generation 3-Products

Product	Protocol
M25	DPB
M12	DPB
M6	DPB
C25 (MK2)	DPB
C50 (MK2)	DPB
C25-250 (MK2)	DPB
C100-500 (MK2)	DPB
C100-1000 (MK2)	DPB
Intelligenz C20	DPB
Intelligenz M60	DPB
System Power Supply 4E	Schnicknet + DPB
Pixel-Gate	Schnicknet

Why Schnick Schnack Systems?

As installation times become increasingly shorter the complexity of systems simultaneously increases as do the requirements of customers.

We are a supplier who delivers high-quality reliable systems –under tight deadline constraints that are not only quick to install but simple to operate and service also.

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