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Integrated Network Solutions with SANYO Projectors.

## 110% Flexibility for Projectors: SANYO Network Solutions.

SANYO projectors contain powerful technology to deliver **flawless images** in the widest possible range of situations. Together with our carefully designed network solutions, you can create a truly customized projector that will be hard to beat in terms of flexibility and ease of use.

**SANYO projectors are communication geniuses.**

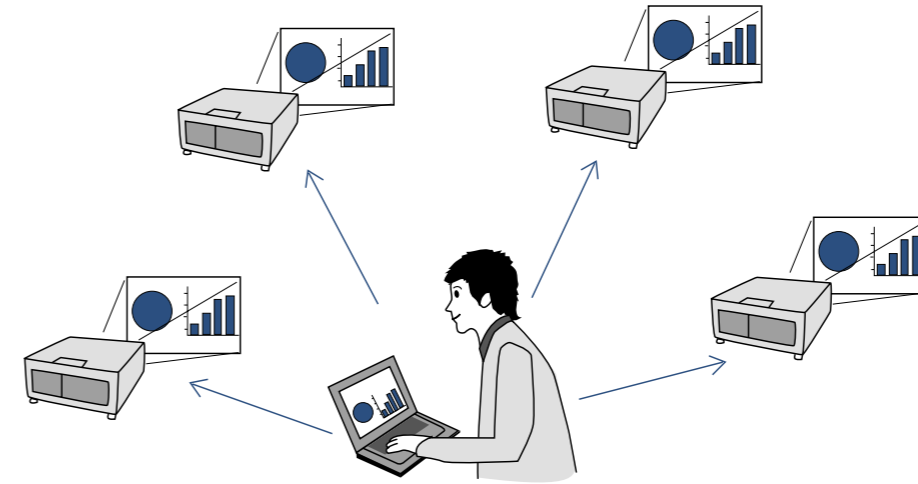
To ensure that processes within your company run smoothly, your projector should be considered **as part of the network** – regardless of whether it is a fixed installation or ultra-portable business companion. As the technology leader for

LCD and DLP projectors, SANYO was one of the first to recognize **the opportunities of projector network integration**: Administrators can maintain and configure projectors over one corporate network or the internet from a central location. Problems are automatically displayed and resolved faster. The daily routine is much easier for the presenter, too. Thanks to an **integrated wireless LAN connection** between the computer and the projector, there's no need for extensive connections before each presentation, allowing you to focus on important things.

Another advantage is fast, global data access with direct, **real-time transmission of screen contents** to the projector over

the network. Wireless or cabled networking of multiple projectors and computers allows even highly complex scenarios: conference participants can use their notebooks and a WLAN connection to take turns making their presentations without having to reconnect to the main projector for each speaker. All of the projectors at a trade show booth can be **remotely administered over the network** and supplied with images from various external sources. As you can see, with SANYO's network solutions, presentations with projectors are always more practical and professional.

## Full professional support: the most important network functions in detail.



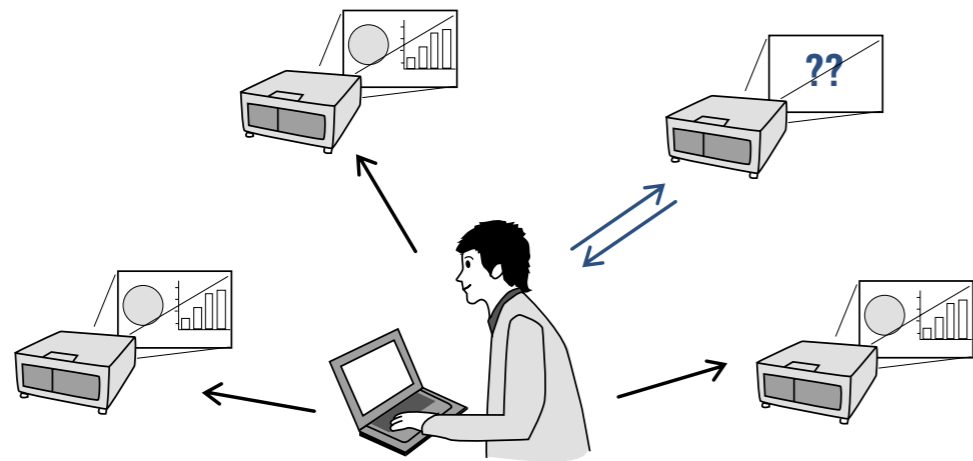
**Now there's no more waiting for data: real-time data transfer to one or more projectors.**

Real-time data transfer is indispensable for feeding multiple projectors with data from a single location. This feature transfers the screen contents of a networked computer to a total of up to 5 projectors **via LAN or WLAN with virtually no delay** – regardless of where in the world the projectors are set up. The applications for these network functions are numerous – they are ideal for point of sale installations, remote conferencing,

trade show booths, and sporting events; in other words, wherever **brilliant ideas** need to be projected from multiple projectors.

**Controlling multiple projectors** through a central computer reduces the acquisition costs of feed sources, simplifies the installation of projection rooms, and guarantees efficient, effective use of marketing activities.

1  
REAL-TIME  
DATA  
TRANSFER



**ADMINISTRATION-AND-CONTROL-FUNCTION**

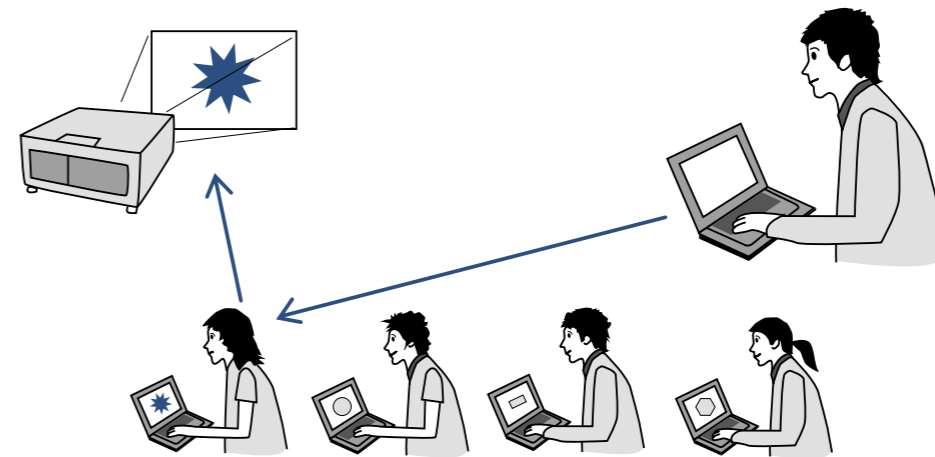
Confidence is good, control is better: the SANYO administration-and-control-function.

With this feature from SANYO, you can control everything via the network – all of the onscreen menu functions of up to 200 projectors in fact. You can monitor different operating conditions such as the lamp operating time, selected video sources, projector runtime, on/off status and more. In addition, you can set the image parameters, such as brightness, contrast or colour, remotely. This means that a centrally located administrator can maintain projectors at separate physical locations in real-time.

When a specific event occurs, the projector automatically sends an e-mail message to the administrator – for example, when the lamps need to be changed, the video signal has been interrupted, the operating temperature is abnormal or when the projector has been switched off.

This allows a single administrator to monitor and maintain multiple projectors in real-time from a single location. This is ideal for universities, schools, companies, and all other institutions that operate multiple projectors simultaneously.

SANYO's administration-and-control-function reduces the maintenance time for projectors, ensures reliable use of the presentation medium, and gives the administrator effective control of every projector in use. Of course the ability of a single administrator to maintain all projectors independent of their physical location translates into enormous cost savings as well.



**3 MODERATOR FUNCTION**

Everyone can collaborate: interactive presentations thanks to the moderator function.

The moderator function opens up brand new presentation possibilities, and is especially suited for use in interactive meetings as well as in schools and training sessions. This feature allows different screen contents to be flexibly integrated into an ongoing presentation by the moderator – either wirelessly or via cable.

The moderator controls the interactive presentation and discussion with the supplied software. When the presenter changes, the new speaker's screen contents can be displayed by the moderator through the projector in just a few seconds.

The moderator function allows you to structure presentations and discussions much more flexibly. This

gives all of the participants the opportunity to share their results in the discussion. Because only the moderator controls the projector, however, the moderator can steer the discussion at any time while retaining full control.

The moderator function is especially well suited for use in PC training rooms. The teacher can easily control whose screen contents are presented to the class with the projector.

But regardless of where this innovative solution from SANYO is used, it helps you to work more effectively, achieve better results, and use the resources of participants better.

## Multiple projectors, a world of possibilities: network products and functions.

### Even more possibilities: an overview of all other SANYO network functions.

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**Easy Wireless Network Set-up:** projectors with Easy Wireless Network Set-up can establish a wireless connection with the data source via the enclosed USB stick and the software stored on it. The data is transferred in real-time from the PC to one or several projectors via this quickly generated wireless connection. Presentations can then begin without extensive cabling or complicated configuration. Interactive presentations in mobile use are also made much simpler using Easy Wireless Network Set-up.

**Email error reporting:** should an error occur with the projector or maintenance work become necessary on the device, the projector sends an e-mail error message

to the user and/or administrator addresses previously entered in the menu. The menu allows the user to select the conditions under which an error message is to be sent, such as lamp failure or replacement, interrupted image signal or excessive temperature.

**FTP download function:** the projector logs on to the FTP server and downloads the required JPEG image files. This means that multiple image files can be looped continuously and loaded by multiple projectors at different locations – a great feature for POS (Point of Sales) and POI (Point of Interest) installations, for example.

**Memory viewer function:** with an SD card or USB stick, JPEGs and moving images (MJPEG) can be displayed on the screen without having to connect a PC or DVD player to the projector. This also allows showing PowerPoint presentations when converted into JPEG files.

**Mouse function:** the control of the PC mouse is integrated into the remote of the projector and may be used for e.g. switching or advancing power point presentations

**Network communication function:** the network communication function sends screen contents from a “master PC” to subordinate computers and the projector.

The “master” is able to change the presentation on his PC, with these modifications being transferred in real time to all other computers and the projector. During the communication phase, the “master PC” can also become a subordinate PC and vice versa.

**SNMP log function:** the status and condition, as well as the status history of the projector can be checked. The simple network manager protocol saves considerable time and money in the carrying out of status analysis and error control.

**Timer function:** the timer function is indispensable in situations where projection must begin and end at an exact time, such as in POS display windows.

**Video streaming function:** this enables a smooth and undistorted playback of video files in various prevalent formats via the network connection.

**Web management function:** this function integrates the projectors into the network and allows the administrator to monitor, service and configure the projectors either centrally or worldwide via the Internet. Problems are thus automatically displayed and resolved faster.

**WLAN data transfer in ad-hoc mode:** as an alternative to the integration of a projector to an existing network via WLAN, an individual projector can be controlled directly from a computer as well. This is a very economical option because no additional hardware is required. The only requirement is a WLAN-enabled PC.

**WLAN data transfer in infrastructure mode:** this mode permits wireless data exchange between multiple computers and projectors through an access point or router which regulates the data flow. These must be integrated in the network. Usually, the projector has a connection to the internet through the access point or router as well.

## Multiple projectors, a world of possibilities: network products and functions.

The following table gives an overview of all the possible combinations of projectors and network products as well as the resulting network functions.

Network-capable projectors	PLC-XU116 <sup>1, 6</sup> PLC-XU305A/355A <sup>1</sup> PLC-WXU700A <sup>1, 6</sup>	PDG-DWL2500 PDG-DXL2000 PLC-WL2500/2503 PLC-WXL46A PLC-WXU300 PLC-XC56 PLC-XD2000/2600 PLC-XE34 PLC-XU106 PLC-XU300A/301A/350A PLC-XW300 PLC-XU4000 PLC-XK2200/2600/3010 PLC-WK2500	PDG-DXL100 PDG-DWL100	PLC-WM4500L PDG-DHT8000L PLC-HF10000L PLC-HF15000L	PLC-WM5500L <sup>7</sup> PLC-ZM5000L <sup>7</sup> PLC-XM100L/150L <sup>7</sup> PLC-XP100L/200L PLC-ET30L PLC-WTC500AL	PLC-XF47 PLC-XF1000 PDG-DET100L <sup>5</sup>
Required network products	WLAN integrated, LAN integrated	LAN integrated	LAN integrated	LAN integrated	POA-PN03C	POA-MD13NET2
Real-time data transfer	■ <sup>2</sup>				■	
Video streaming function	■ <sup>3</sup>					
FTP download function	■				■	
Web management function	■	■	■	■	■ <sup>7</sup>	■
Email error reporting	■	■	■	■	■ <sup>7</sup>	■
Administration-and-control-function	■				■	■
Mouse function	■				■	
Timer function	■				■	■
Network communication function	■				■	
SNMP log function	■	■		■	■ <sup>7</sup>	
Memory viewer function	■ <sup>4</sup>					
Moderator function	■					
WLAN data transfer in ad-hoc mode	■					
WLAN data transfer in infrastructure mode	■					
LAN connection	■	■	■	■	■ <sup>7</sup>	■

<sup>1</sup> Easy Wireless Network Set-up

<sup>2</sup> Up to 5 projectors

<sup>3</sup> For PLC-WXU700A

<sup>4</sup> Unable to play MJPEG files

<sup>5</sup> Included as a standard accessory



<sup>6</sup> 11n High Speed WLAN

<sup>7</sup> LAN integrated for PLC-XM100L/XM150L, PLC-WM5500L, PLC-ZM5000L

**Outstanding recommendations: SANYO network solutions are at work in places like these.**

»Should a user encounter a problem with the application, our support team may offer phone advice without the need to be on-site, as they can access the operations protocol online.«

*Horst G. Skodzik, Manager Sales Force Training at Novartis*

THE PROJECT:		Integration of various projectors in the corporate network of Novartis Pharma GmbH
<b>Partner:</b>	Pronima GmbH, Schwabach	 
<b>Projector:</b>	PLC-XP57 with PJ-Net-Organizer Plus POA-PN03	
<b>Project Description:</b>	Integration of various projectors at a large training centre into the company network for simple remote maintenance and control of all projectors and presentations over the network.	
<b>The advantages:</b>	<ul style="list-style-type: none"> <li>■ Simple integration in existing company networks</li> <li>■ Cost-effective remote maintenance and control of all devices</li> <li>■ Maximum presentation flexibility with interchangeable lenses</li> <li>■ High equipment reliability</li> </ul>	

SANYO network solutions are used in the following projects as well:

- Ruhr University Bochum
- University Marburg
- AWD-Dome Bremen
- Technical University of Berlin