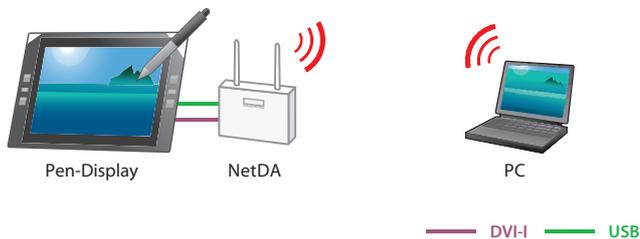# Network Display Adapter
SX-ND4050G

HD-ready

Use monitors, keyboard and mouse via LAN or 300Mbit WLAN

Remote control and interactive use of displays

◗ Overview

The SX-ND4050G is a network display adapter (NetDA) with full HD support for fast data transfer using the IEEE 802.11n and Gigabit Ethernet standards.

This permits not only the presentation of a PC display on a remote monitor using wired or wireless transmission, but also uses integration with USB devices to permit changes to be made to the display remotely.

Thanks to wireless transmission, the cable spaghetti in the vicinity of the display can be eliminated and the display can be positioned however you like.

Pen-Display   NetDA   PC

—— DVI-I   —— USB

◗ Main features

1 Problem-free operation even through WLAN

Thanks to the high transmission rates of up to 300 Mbps (theoretical value) on IEEE 802.11n, the tablet PC responds immediately to pen input and can provide satisfactory performance even for moving pictures.

The SX-ND4050G can be configured as a wireless Access Point and builds a complete independent wireless LAN network. That means that resources of the existing wireless network are not occupied and the investment for further hardware equipment is minimized.

2 Bidirectional data transfer with various USB devices

Thanks to the USB Virtual Link technology by silex, various input devices such as touch panels or USB devices can be remotely controlled through the network by the PC.
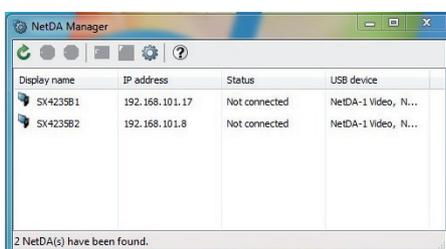
3 Support for Full HD

Support for the maximum Full HD resolution (1920 x 1080) permits the display of high picture quality.
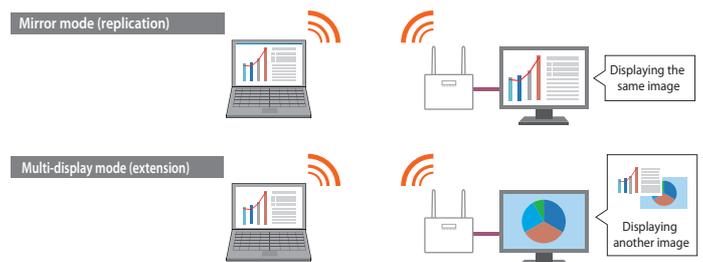
Full HD 1920 x 1080

4 "NetDA Manager", a simple and user-friendly utility

This special software allows you to search for NetDA devices, connect to and disconnect from monitors and query connection status.

Display name	IP address	Status	USB device
SX4235B1	192.168.101.17	Not connected	NetDA-1 Video, N...
SX4235B2	192.168.101.8	Not connected	NetDA-1 Video, N...

2 NetDA(s) have been found.

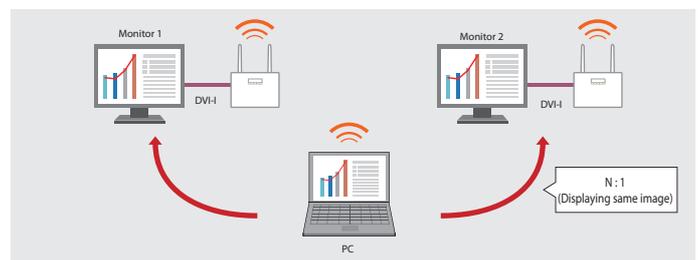### 5 Mirror mode (replication) and multi-display mode (extension)

Two modes are available as needed: A mirror mode that displays the same picture as that on the PC, and a multi-display mode that shows another image as an extension to the PC display.

Mirror mode (replication)

Displaying the same image

Multi-display mode (extension)

Displaying another image

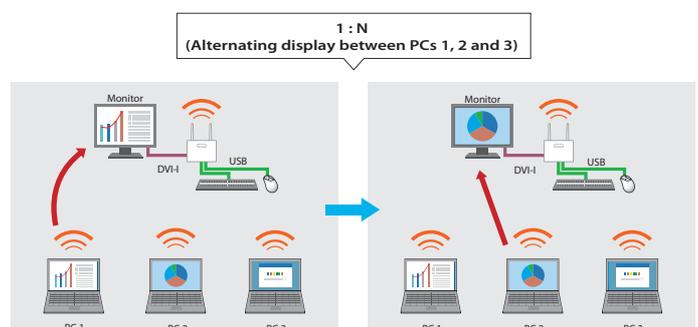### ◗ System configuration examples

1 Multiple monitors: 1 PC

• Up to 6 monitors can be connected to a single PC.

• This is practical at conferences, for example, that are distributed between different conference rooms, where the same picture can be displayed everywhere.

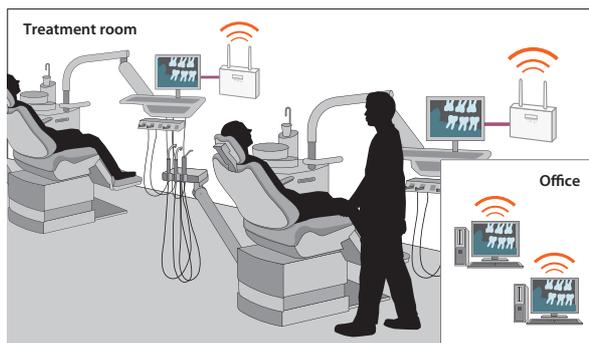* Under Windows 7, mirror mode only permits display on one monitor

Monitor 1   Monitor 2

DVI-I   DVI-I

N : 1
(Displaying same image)

PC

2 1 monitor: Multiple PCs

• The PC on which the display appears or should be operated can be selected by the keyboard at the monitor.

• You can switch between a maximum of 12 PCs.

**1 : N
(Alternating display between PCs 1, 2 and 3)**

Monitor   Monitor

DVI-I   USB   DVI-I   USB

PC 1   PC 2   PC 3   PC 1   PC 2   PC 3

Application options

case 1 — dentist's practice
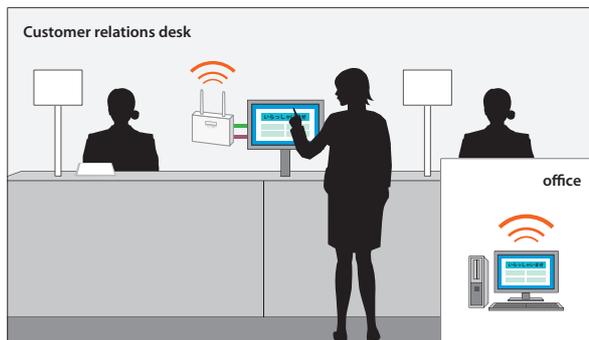
Treatment room

Office

The monitor next to the treatment chain is wirelessly connected to the PC in the office, so that patient files and X-rays can be called up there. This means that there is no need to set up a PC next to each treatment chair, which has a positive effect on the room design.

case 2 — At school

Classroom

A wireless connection instead of cables next to the teacher's podium allows the whiteboard to be moved around the room without restriction, making it easier both to put away and to set it up.

case 3 — customer relations desk

Customer relations desk

office

Setting up the PC in another room allows better privacy; the different requests and so forth are processed over the network.

DVI-I   USB

Accessory options for the network display adapter

Mounting bracket

Stand

* The stand is only available in black.
* Please contact us for details about optional accessories (mounting bracket, stand).

Technical data

Product name	SX-ND4050G
Item number	E1233
Wired LAN	10 BASE-T/100 BASE-TX/1000 BASE-T (automatic detection)
Wireless LAN (WLAN)	IEEE 802.11 a/b/g/n With our WLAN module with PCI Express support (SX-PCEAN)
WLAN security	WEP(64/128), WPA-PSK(TKIP/AES), WPA2-PSK(AES)
Interfaces	RJ-45 USB 2.0 Hi-Speed-(Typ A)-Port × 2 DVI-I output Line Out (3,5 mm stereo mini jack) Mic In (3,5 mm mono)
Supported protocols	TCP/IP
Operating systems supported	Windows 8.1,8,7 (32/64 Bit) * Windows XP SP2, Windows Vista SP1 or higher (32/64 Bit)
Display functions	Maximum resolution - Full HD (1920 × 1080) Special functions: - Display modes: Mirror mode and multi-display mode - Monitor image can be rotated by 90°, 180° or 270°
Other functions	USB isochronous transfer, bundled device connection, USB filtering, remote PC function
LED	CONNECT, ALERT, STATUS, LINK
Setup switch	OSD display (settings display)
Configuration	Webbrowser
Associated service programs	NetDA Manager / SX-Virtual Link
Storage conditions	Temperature: -10° C to50° C Humidity: 20% to 90% RH (non condensation)
Betriebsbedingungen	Temperature: 0° C to40° C Humidity: 20% to 80% RH (non condensation)
Approvals	VCCI Class A, CE
Dimensions	B: 155 mm × D: 32 mm × H: 120 mm (without antenna, rubber feet and optional accessories)
Weight	260 g (without rubber feet and optional accessories)
Power supply	100-240 V AC, 50/60 Hz
Maximum power consumption	24W (DC12V 2,0 A)
Contents of package	Main unit, power supply, rubber feet (4 pcs.), CD-ROM, setup instructions, antennas (2 pcs.), GPL notification, guarantee card

[Minimum system requirements]

＜Windows XP SP2/SP3 32bit ＞
Recommended: CPU with at least 2.0 GHz, at least 1.0 GB RAM
Minimum requirements: CPU with at least 1,2 GHz, at least 512 RAM (when displaying static images)

＜Windows Vista SP1/SP2 32/64bit, Windows 7 32/64bit＞
Under 1280 x 1024: WEI > 3; 1366 × 768: WEI > 3.5; 1920 × 1080: WEI > 4
(WEI = Windows Experience Index)

[When using the product, note the following]
* Under Windows 7, mirror mode only permits display on one monitor
·The product does not support API interfaces such as DirectX or OpenGL.
·The product is not suitable for PCs connected to multiple display adapters.

ISO 9001
JQA-QMA2667
silex technology,Inc.

ISO 14001
JQA-EM3813
silex technology,Inc.
Design & Manufaktur Center

OEM circuit boards for integration into a display and SDK solutions are also available. Please contact us for details.

Global marketing and support locations:

Europe
silex technology europe GmbH
+49-2151-65009-10
Toll-free hotline in Germany:
0800-7453938
www.silexeurope.com
> contact@silexeurope.com

Japan
silex technology, Inc.
+81-774-98-3782
www.silex.jp
> support@silex.jp

USA
silex technology america, Inc.
+1-801-747-0656
Kostenfreie Hotline USA:
866-765-8761
www.silexamerica.com
> contact@silexamerica.com

www.forefrontec.com
info@forefrontec.com

Jebel Ali Free Zone, Dubai (HO)
Street No. N503 - FD03, FD04 & FD05
United Arab Emirates
P.O. Box 17020

Tel: +971 (4) 881 44 40
Fax: +971 (4) 881 42 42

Al Olaya Street, Riyadh (BO)
Akariyah-3 Building, Office 610
Kingdom of Saudi Arabia
P.O. Box 301807, Riyadh 11372

Tel: +966 (11) 460 35 80
Fax: +966 (11) 460 35 85

QasimZainahStreet,Jeddah(BO)
Al-Rawdah, Al-Rawdah Plaza,
Office 204
Kingdom of Saudi Arabia

Tel: +966 (12) 612 14 63
Fax: +966 (12) 612 05 17

Forefront Technologies (BO)
Musheireb - Palestine St.,
Doha - Qatar

Tel: +974 (3) 394 47 59
Fax: +971 (4) 881 42 42

Forefront Technologies (BO)
Khuwair,
Muscat, Oman

Tel: +968 (9) 774 24 70
Fax: +971 (4) 881 42 42