

### Instructions for setup the image acquiring station with GENESIS and Perkin Elmer

## **1** System requirements

- Hardware general:
  - Intel-compatible multi-core processor (> 2 GHz)
  - $\circ$  RAM > 4 GB
  - o Free gigabit LAN adapter
  - o XRPad detector
  - Trigger cable (optional)
- Hardware wired installation
  - XRPad IPU (interface & power unit)
  - AC power cord
  - o Master data cable
  - o Gigabit LAN cable
- Additional hardware wireless installation
  - o XRPad LBP (Lithium Battery Pack), 95510920H or 95510920H-01
  - XRPad LBC (Lithium Battery Charger)
  - Separate WLAN router
    - WPA2 encryption protocol
    - 802.11n MIMO 3x3.
    - Compliance with the standard IEC 60601-1 or IEC 60950-1.
  - Gigabit LAN cable
- Software:
  - o Windows 7 32bit/64bit
  - digipaX from version 1.4.13
  - XIS software from version 3.3.2.3
  - o Firewall must allow connections between the components



# **2** Installation

- Turn on Windows-Feature ".NET Framework 3.5 resp. 3.5.1" if not installed
  - execute command "OptionalFeatures"
  - only checkmark ".NET Framework"



- Install digipaX
  - Install the packet "vcredist\_x86.exe" from the digipaX installation directory (as administrator)
- Generate Body with Procedure Codes for devices GENESIS & digipaX
- Install MySQL if needed
  - Run Instance Configuration Wizard
  - Username = root / Password = root
- Install image archive if needed
  - Configure the archive
  - o Set the data path
  - o Create the database / re-init the database
  - Configure the AE title, port, stations' list
  - $\circ \quad \mbox{Configure the archive in digipaX}$
- Install worklist if needed
  - Run the Batch as Administrator
  - Configure the worklist in digipaX
    - Choose the share path
    - Set the AE title and the port
- Install the software for the generator
  - o Configure the position of the user interface on the screen
- Set the network address 192.168.2.2 / mask 255.255.255.0 (separate network card for XRpad)
- Install the XIS software
  - The software is in the digipaX installation package in the folder tools (PE-INST\_3-3-2-3.zip) – activate all options
- Configure Firewall
  - Allow software XIS (C:\XIS\Program\XIS.exe)
- Connect the panel in the wired mode
  - o Separate gigabit LAN connection required (possibly install an additional network card)
  - Connect IPU
    - Power cord
    - Master data cable to XRpad
    - Ethernet cable to gigabit LAN
    - Connect the trigger cable (optional)
    - Switch on IPU (AC input LED must turn green and DC output LED yellow)
    - Switch on XRpad / hold the power button on the detector or IPU pressed for 2 seconds till the DC output LED on IPU turns green



- Configure the network
  - The XRpad address is 192.168.2.158 / mask 255.255.255.0 by default
    - Set the gigabit LAN address on 192.168.2.2 / mask 255.255.255.0
- Configure XRpad
  - Open in the browser URL 192.168.2.158 / Username = admin / Password = PerkinElmer
  - Check if the image transfer is switched on LAN, change it if needed / confirm with Apply
- Test the network
  - Ping in the in the commandline 192.168.2.158 / a reply must come (change firewall settings if needed)
  - Test with XIS
- Change the panel over to wireless mode (with external router) -> XRpad 4336 WiFi only
  - XRpad must priorly be connected in the wired mode (see above)
  - Recommended router requirements
    - Dual band 2.4 GHz/5G Hz
      - Full 3x3 MIMO antenna connection
      - Speed minimum 450 MBs at 5 GHz
      - WPA2 encryption protocol
  - Configure XRpad for WLAN
    - Put the battery in XRpad
    - Open in the browser URL 192.168.2.158 / Username = admin / Password = PerkinElmer
    - WLAN Type = Station
    - WLAN Mode = Manual
    - WLAN IP Address = 192.168.22.1 / mask 255.255.255.0
    - leave blank the gateway
    - leave blank the nameserver
    - WLAN Description = XPad\_Router
    - WLAN SSID = SSID of the router (refer to the documentation of the router)
    - WPA2 Password = WLAN access password of the router (please refer to the documentation of the router)
    - Repeat WPA2 password
    - Check if the image transfer is switched on LAN, change it if needed / confirm with Apply
  - Prepare the router
    - Connect the router to gigabit LAN
    - Read in the documentation of the router how to establish connection to the router and how to configure the router
    - Therefore, the IP address of the gigabit LAN connection needs to be temporarily adjusted if needed (optionally you can also use another network connection)
    - When the connection to the router is established:
      - Configure the router as the Access Point
      - Activate the WPA2 encryption protocol
      - Check the SSID and WLAN access password (both must be the same as in XRpad)
      - Finally set the IP address of the router on 192.168.22.3 / mask 255.255.255.0 and restart the router
  - Set the IP address of gigabit LAN connection on 192.168.22.2, and connect the router there (if it is connected to another connection at the moment)
  - Put the battery in XRpad
  - Remove detector cable (between detector and IPU)
  - Test the network
    - Ping in the in the commandline 192.168.22.3 / a reply must come (change firewall settings if needed)
    - Ping in the in the commandline 192.168.22.1 / a reply must come (change firewall settings if needed)
    - Test with XIS



- Configuration of the license in digipaX
  - Enable the module "X-ray image acquisition"
  - Enable the module "Perkin Elmer XRpad"
  - Enable the module "Image filter (post-processing)"
- Connecting devices
  - Generator GENESIS
    - Direct connection
    - Set the transfer directory ",pub" (in the installation folder Generator)
    - Set the tag for Procedure Code "Requested Procedure ID"
    - Activate sending the Procedure Codes using the button for image acquisition (pool the buttons for image acquisition)
  - Detector Perkin Elmer
    - Set the tag for Procedure Code "Scheduled Procedure Step Code Meaning"
    - Also activate the image crop if needed
    - If using stationary grid, enable the option for grid suppression and enter the resolution of the grid or the grids used
  - Set both tags also on the card for job management according to the position of the Procedure Codes in the organ chart
- If using external trigger than check or update settings
  - Start XIS-Software starten and init detector
  - Menu: Options / Detector Options
  - Buttonr "Select / TrigOut Signal"
  - Set configuration according to used generator for GENESIS-Generator:

Set Trigger Out Signal	
C 0: FRM_EN_PWM	4: DDD_PULSE
C 1: FRM_EN_PWM_INV	Data Delivered On Demand Mode
C 2: EP	/Trigin:
C 3: EP_INV	Delay di
4: DDD_PULSE	Data Readout (intern): <u>t0 t0 t0 t0 t0</u> <u>t0 t0</u>
C 5: DDD_PULSE_INV	Transmitted Data:
C 6: GND	/TrigOUT:
C 7: VCC	
	Specific Parameters Delay d1 = 1500 ms Global Parameters Uelay d1 = 1500 ms Figure 0n Rising Edge (otherwise on Falling Edge)
OK Cancel	V Save as default

- Activate the patient management card (User::User interface)
- Restart digipaX
- Run calibration of the detector according to the manual
- Set the symbol for acquisition button in digipaX (User::Image acquisition; file BodyGenX\Symbols\Xray02.png)



## **3 Router settings**

### 3.1 D-Link DAP-1665

Overview IP addresses:

Wired: LAN = 192.168.2.2 / 255.255.255.0 IPU = 192.168.2.158 / 255.255.255.0

WLAN:

LAN = 192.168.22.2 / 255.255.255.0 Router = 192.168.22.3 / 255.255.255.0 XRpad = 192.168.22.1 / 255.255.255.0

Router configurations:

**ATTENTION!** Notice upper and lower cases in router and XRpad settings for the network names (SSID) and WPA keys. Settings older firmware

DAP-1665 // AP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
SETUP WIZARD	WIRELESS NETWO	ORK			Helpful Hints
WIRELESS SETUP	Use this section to co that changes made o Save Settings Do	Wireless Mode : Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Bridge,			
	WIRELESS MODE	: Vireless Mode : Acc	cess Point 👻 Site Survey		bridge with AP and Repeater. Function wireless modes are designed to support various wireless network topologies and anglications.
	2.4GHZ WIRELES	S NETWORK SETT	TINGS :		Wirelass Network Name
	En Wireless No Enable Auto C Ch Vis	able Wireless : etwork Name : XRA 802.11 Mode : Mix eless Channel : 6 Channel Scan : Mix annel Width : Aur ibility Status :	Always  Add New AY_SWISS (Also ca cad 802.11n, 802.11g and 802.11b co 20/40MHz Visible Invisible Invisible	elled the SSID)	Changing your Wireless Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information. Hidden Wireless :
	2.4GHZ WIRFLES	S SECURITY SET	TING :		Enabling Hidden Mode is another way to secure
	Se	ecurity Mode : WF WPA Mode : AU Cipher Type : TKJ e-Shared Key : •••	PA-Personal ▼ TO (WPA or WPA2) ▼ IP and AES ▼		your network. With this option enabled, no wireless clients will be able to see your wireless network when they perform scan to see what's available. In order for your wireless
	5GHZ WIRELESS	NETWORK SETTI	NGS :		AP, you will need to
	En. Wireless Ne	able Wireless : 🛛 etwork Name : 🕮	Always  Add New AY_SWISS (Also ca	illed the SSID)	manually enter the wireless Network Name on each device.
	8 Wire Enable Auto C Cł Vis	BO2.11 Mode : Mix eless Channel : 36 Channel Scan : V nannel Width : Au ibility Status : 0	xed 802.11ac, 802.11n and 802.11a	3 •	Security Keys: If you have enabled Wireless Security, make sure you write down WEP Key or Passphrase that you have configured. You will need to enter this
					information on any wireless device that you connect to your wireless network.
	SGHZ WIRELESS	ecurity Mode : WP WPA Mode : AU Cipher Type : TKJ e-Shared Key : ••	PA-Personal  TO (WPA or WPA2)		Bridge setting: If you want to bridge with the other Bridge AP, please write down the MAC address of the Bridge AP, Besides, you also need to
					write down the MAC



#### Settings new firmware:

Existing N	etwork Con	necteo	k			
onex on any non-in-the	alagram tor more information					
Uplink Ro	uter	DAP-1665		Connected Client	s: 1	
$\bigcap$		0		$\frown$		
	»)—— <b>~</b> —		)	((∎)		
$\sim$		$\smile$		$\bigcirc$		
DAP-1665						
IPv4 Network	00-26-00-02-04-10		Wi-Fi 2.40	GHz		
IP Address:	192.168.22.3		Wi-Fi Name (SS	SID): Not Available		
Subnet Mask:	255.255.255.0		Password:	Not Available		
Default Gateway:	Not Available		1.0			
Primary DNS Server:	Not Available		Wi-Fi 5GH	lz		
Secondary DNS Server	Not Available		Status:	Enabled		
			Wi-Fi Name (SS	SID): DIGIPAX		
	EE90-9228-90EE-EE92-CA1	10	Password:	avrmxu5405		
Router IPv6 Address:	Not Available	10		Go to s	ettings 🏈	
Default Gateway:	Not Available					
Primary DNS Server:	Not Available					
Secondary DNS Server	Not Available					
	Catao	~				
	60105	ettings ( <del>&gt;</del> )				
	Extender Use this section to configur this section may also need	re the wireless s	ettings for your D-Lini	k Ap. Please note t	hat changes made on	
	Use this section to configur this section may also need	ettings ()	ettings for your D-Lin I on your Wireless Cli	k Ap. Please note t ent.	hat changes made on	
Settings >> Wireless	Extender Use this section to configur this section may also need	re the wireless s to be duplicated	ettings for your D-Lin I on your Wireless Cli <u>Multi-SSID</u>	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save	
Settings >> Wireless Existing Network	Extender Use this section to configur this section may also need	re the wireless s to be duplicated RADIUS	ettings for your D-Lini on your Wireless Cli <u>Mutti-SSID</u>	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save	
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Settings >> Wireless Existing Network 2.4GHz Extended Wi-Fi	Use this section to configur this section may also need Wireless Mode:	ettings () re the wireless s to be duplicated RADIUS Access Point	ettings for your D-Lini Ion your Wireless Cli Multi-SSID	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save	
Settings >> Wireless Existing Network 2.4GHz Extended WI-Fi	Use this section to configur this section may also need Wireless Mode: Status:	ettings ()	ettings for your D-Lin Ion your Wireless Cli Multi-SSID	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save	
Settings >> Wireless Existing Network 2.4GHz Extended Wi-Fi	Use this section to configur this section may also need Wireless Mode: Status: Wi-Fi Name (SSID):	ettings   retings   reting	ettings for your D-Lin Ion your Wireless Cli Multi-SSID	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save	
Settings >> Wireless Existing Network 2.4GHz Extended WI-Fi	Use this section to configur this section may also need Wireless Mode: Status: Wi-Fi Name (SSID): Password:	ettings () e the wireless s to be duplicated RADIUS Access Point Disabled Disabled SWTWX05405	ettings for your D-Lin Ion your Wireless Cli Multi-SSID	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save Advanced Settings	
Settings >> Wireless Existing Network 2.4GHz Extended Wi-Fi	Use this section to configur this section may also need Wireless Mode: Status: Wi-FI Name (SSID): Password:	ettings () re the wireless s to be duplicated RADIUS Access Point Disabled Disabled Disabled	ettings for your D-Lini I on your Wireless Cit Multi-SSID	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save Advanced Settings	
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Settings >> Wireless Existing Network 2.4GHz Extended Wi-Fi	Use this section to configur this section may also need Wireless Mode: Status: Wi-Fi Name (SSID): Status: Status:	ettings () re the wireless s to be duplicated RADIUS Access Point Disabled DISabled DISIPAX avrmx05405	ettings for your D-Lin on your Wireless Cit <u>Multi-SSID</u>	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save Advanced Settings	
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Settings >> Wireless Existing Network 2.4GHz Extended Wi-Fi	Use this section to configur this section may also need Wireless Mode: Status: Wi-Fi Name (SSID): Status: Wi-Fi Name (SSID): Password:	ettings () re the wireless s to be duplicated RADIUS Access Point Disabled DIGIPAX avrmx05405 Enabled DIGIPAX digi4admin	ettings for your D-Lin on your Wireless Cit Multi-SSID	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save Advanced Settings	
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Settings >> Wireless Existing Network 2.4GHz Extended Wi-Fi 5GHz Extended Wi-Fi WI-Fi Protected Setup	Use this section to configur Use this section to configur this section may also need Wireless Mode: Status: Wi-Fi Name (SSID): Password: Status: Wi-Fi Name (SSID): Password:	ettings ()	ettings for your D-Lin I on your Wireless Cit Multi-SSID	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save Advanced Settings	
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Settings >> Wireless Existing Network 2.4GHz Extended Wi-Fi 5GHz Extended Wi-Fi WI-FI Protected Setup	Use this section to configur this section may also need Wireless Mode: Wi-Fi Name (SSID): Password: Wi-Fi Name (SSID): Password: WPS-PBC status: WPS-PIN Status:	ettings ()	ettings for your D-Lin on your Wireless Cit Multi-SSID	k Ap. Please note t ent. <u>WiFi VLAN</u>	hat changes made on Save Advanced Settings.	
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### 3.2 D-Link DAP-2660

Overwview IP addresses:

Wired: LAN = 192.168.2.2 / 255.255.255.0 IPU = 192.168.2.158 / 255.255.255.0

WLAN:

LAN = 192.168.22.2 / 255.255.255.0 Router = 192.168.22.3 / 255.255.255.0 XRpad = 192.168.22.1 / 255.255.255.0

Router login settings:

D-Link	DAP-2660
🔹 Home 🥁 Maintena	ice 🕶 🔚 Configuration 👻 🧅 System 💋 Logout 🕡 Help
DAP-2660 Basic Settings Wireless LAN IPv6 Advanced Settings Status	Administration Settings   Limit Administrator   System Name Settings   Login Settings   Login Name   admin   New Password   digi4admin   Confirm Password   Console Settings   SNMP Settings   Ping Control Setting   LED Settings   Central WiFiManager Setting



#### Router LAN configuration:

D-Link <sup>®</sup>					DAP-266	60
🕎 Home 🛛 🔏 Maintena	nce 🔻 📙	Configuration -	👙 System	💋 Logout	I 🕐 He	elp
Maintenau DAP-2660 Basic Settings Wireless IAN PV6 Advanced Settings Status	Ince  LAN Setting Get IP From IP Address Subnet Mask Default Gateway DNS	Configuration	System	Logout	Save	



Configuration 5 GHz:

**ATTENTION!** Notice upper and lower cases in router and XRpad settings for the network names (SSID) and WPA keys.

D-Link		DAP-2	2660
救 Home 🛛 🔏 Maintena	ince 🔻 🚽 Configu	ıration 👻 🛬 System 💋 Logout 📀	Help
DAP-2660	Wireless Setting	S	
IPv6	Wireless Band Mode	SGHz ▼ Access Point ▼	
D-Status	Network Name (SSID) SSID Visibility	DIGIPAX	
	Auto Channel Selection	Enable 🔻	
	Channel Channel Width	100 ▼ Auto 20/40/80 MHz ▼	
	Authentication PassPhrase Settings	WPA-Personal 🔻	
	WPA Mode Cipher Type	AUTO (WPA or WPA2)  Auto  Group Key Update Interval 3600 (Seconds)	
	Manual     Activated From	Periodical Key Change	
	Time Interval PassPhrase	1 (1~168)hour(s)	
	Confirm PassPhrase	notice: 8~63 in ASCII or 64 in Hex.	
		(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'\:" ,./<>?)	
		Save	$\supset$



Configuration 2.4 GHz:

WLAN should not be configured for 2.4 GHz cause the XRpad should always work with with 5 GHz. To prevent an open WLAN activate WPA encryption, set any password (digi4admin) and hide SSID.

D-Link <sup>®</sup>					DAP-2	2660
🛕 Home 🥳 Maintenan	ce 👻 📙 Configu	uration 🔻	シ System	💋 Logout	0	Help
Home Maintenan DAP-2660 Basic Settings Wireless LAN IPV6 Advanced Settings Status	ce Configure Wireless Band Mode Network Name (SSID) SSID Visibility Auto Channel Selection Channel Channel Width Authentication PassPhrase Settings WPA Mode Cpher Type Manual Activated From Time Interval PassPhrase Confirm PassPhrase	S 2.4GHz Access Point dlink Disable Enable Enable Control Disable Disa	System t ▼ nal ▼ or WPA2) ▼ Group Key Update ! cal Key Change 00 ▼ : 00 ▼ ×168)hour(s) B in ASCII or 64 in Hex. ×100 ± \$\$0.0 \$*(-) + :=(1)	Interval 3600	] (Seconds)	Help
					Save	



Save router settings:

With "Configuration / Save and Activate" save all settings finally. The router restarts automatically.

Home       Maintenance       Configuration       System       Logout       Home         DAP-2660       Basic Settings       Advanced Settings       Model Name       DAP-2660         Firmware Status       Model Name       DAP-2660       Firmware Version       1.11       14:19:45 06/19/2015         System Name       D-Link DAP-2660       Location       System Time       04/27/2017 14:04:15         Up Time       0 Days, 00:12:42       Operation Mode(SGHz)       Access Point         Operation Mode(SGHz)       Access Point       MAC Address(2:4GHz)       10:be15:c9:bb:a0         MAC Address(5GHz)       10:be15:c9:bb:a8       IP Address       192.168.22:3	D-Link		DAP-2660				
DAP-2660       Sy Discard Charges at ion         Basic Settings       Model Name       DAP-2660         Firmware Version       1.11       14:19:45       06/19/2015         System Name       D-Link DAP-2660         Location       System Time       04/27/2017         System Time       04/27/2017       14:04:15         Up Time       0 Days, 00:12:42         Operation Mode(5GHz)       Access Point         MAC Address(5GHz)       10:berf5:c9:bb:a0         MAC Address(5GHz)       10:berf5:c9:bb:a8         IP Address       192.168.22.3	🌶 Home 🏾 🔏 Ma	💋 Logout	10 Help				
Advanced Settings       Model Name       DAP-2660         Firmware Version       1.11       14:19:45 06/19/2015         System Name       D-Link DAP-2660         Location       Location         System Time       04/27/2017 14:04:15         Up Time       0 Days, 00:12:42         Operation Mode(2.4GHz)       Access Point         Operation Mode(5GHz)       Access Point         MAC Address(2.4GHz)       10:berf5:c9:bb:a0         MAC Address(5GHz)       10:berf5:c9:bb:a8         IP Address       192.168.22.3	DAP-2660						
Firmware Version 1.11 14:19:45 06/19/2015 System Name D-Link DAP-2660 Location System Time 04/27/2017 14:04:15 Up Time 0 Days, 00:12:42 Operation Mode(2.4GHz) Access Point Operation Mode(5GHz) Access Point MAC Address(2.4GHz) 10:be:f5:c9:bb:a0 MAC Address(5GHz) 10:be:f5:c9:bb:a8 IP Address 192.168.22.3	Advanced Settings	e DAP-2660					
System NameD-Link DAP-2660LocationSystem Time04/27/2017 14:04:15Up Time0 Days, 00:12:42Operation Mode(2.4GHz)Access PointOperation Mode(5GHz)Access PointMAC Address(2.4GHz)10:berf5:c9:bb:a0MAC Address(5GHz)10:berf5:c9:bb:a8IP Address192.168.22.3	Jatus						
LocationSystem Time04/27/2017 14:04:15Up Time0 Days, 00:12:42Operation Mode(2.4GHz)Access PointOperation Mode(5GHz)Access PointMAC Address(2.4GHz)10:be:f5:c9:bb:a0MAC Address(5GHz)10:be:f5:c9:bb:a8IP Address192.168.22.3							
System Time04/27/2017 14:04:15Up Time0 Days, 00:12:42Operation Mode(2.4GHz)Access PointOperation Mode(5GHz)Access PointMAC Address(2.4GHz)10:be:f5:c9:bb:a0MAC Address(5GHz)10:be:f5:c9:bb:a8IP Address192.168.22.3							
Up Time0 Days, 00:12:42Operation Mode(2.4GHz)Access PointOperation Mode(5GHz)Access PointMAC Address(2.4GHz)10:be:f5:c9:bb:a0MAC Address(5GHz)10:be:f5:c9:bb:a8IP Address192.168.22.3							
Operation Mode(2.4GHz)Access PointOperation Mode(5GHz)Access PointMAC Address(2.4GHz)10:be:f5:c9:bb:a0MAC Address(5GHz)10:be:f5:c9:bb:a8IP Address192.168.22.3							
Operation Mode(5GHz)Access PointMAC Address(2.4GHz)10:be:f5:c9:bb:a0MAC Address(5GHz)10:be:f5:c9:bb:a8IP Address192.168.22.3							
MAC Address(2.4GHz) 10:be:f5:c9:bb:a0 MAC Address(5GHz) 10:be:f5:c9:bb:a8 IP Address 192.168.22.3							
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