

Anleitung Aufbau Bildaufnahmestation mit GENESIS und Perkin Elmer

1 Systemvoraussetzungen

- Hardware allgemein:
 - Intel kompatibler Multi Core Prozessor (> 2 GHz)
 - \circ RAM > 4 GB
 - o freier Gigabit-LAN-Adapter
 - XRPad Detektor
 - Trigger-Kabel (optional)
- Hardware Wired-Installation
 - o XRPad IPU (Interface & Power Unit)
 - AC-Stromkabel
 - Master-Data-Kabel
 - o Gigabit LAN-Kabel
- Hardware zusätzlich Wireless-Installation
 - o XRPad LBP (Lithium Battery Pack), 95510920H oder 95510920H-01
 - XRPad LBC (Lithium Battery Charger)
 - separaten WLAN-Router
 - WPA2-Verschlüsselung
 - 802.11n MIMO 3x3.
 - Einhaltung Standard IEC 60601-1 oder IEC 60950-1.
 - o Gigabit LAN-Kabel
- Software:
 - Windows 7 32bit/64bit
 - o digipaX ab Version 1.4.13
 - o XIS-Software ab Version 3.3.2.3
 - o Firewall muss die Verbindungen der Komponenten zulassen
 - es fehlt möglicherweise ".NET Framework 3.5 bzw. 3.5.1" und muss nachträglich installiert werden



2 Installation

- ggf. Windows-Feature ".NET Framework 3.5 bzw. 3.5.1" nachinstallieren
 - Kommando "OptionalFeatures" ausführen
 - o dort nur Häkchen ".NET Framework 3.5 bzw. 3.5.1" aktivieren und mit "OK" bestätigen



- digipaX installieren
 - Paket "vcredist_x86.exe" aus dem digipaX-Installationsverzeichnis installieren (als Administrator)
- Body mit Procedure Codes für Geräte GENESIS & digipaX generieren
- gegebenenfalls MySQL installieren
 - Instance Configuration Wizard durchführen
 - Benutzername = root / Passwort = root
- gegebenenfalls Bildarchiv installieren
 - o Archiv konfigurieren
 - o Datenpfad einstellen
 - Datenbank erstellen / re-init Database
 - o AE-Titel, Port, Stationsliste konfigurieren
 - o Archiv im digipaX konfigurieren
- gegebenenfalls Woklist installieren
 - Batch als Administrator ausführen
 - Woklist im digipaX konfigurieren
 - Freigabepfad wählen
 - AE-Titel und Port einstellen
- Software für Generator installieren
 - o konfigurieren der Position des Bedienfensters auf Monitor
- Netzwerkadresse 192.168.2.2 / Maske 255.255.255.0 setzen (separate Netzwerkkarte f
 ür XRpad)
- Software XIS installieren
 - die Software befindet sich im digipaX-Installationspaket im Ordner Tools (PE-INST_3-3-2-3.zip) – dabei alle Optionen aktivieren
- Firewall konfigurieren
 - Software XIS zulassen (C:\XIS\Program\XIS.exe)
- Panel anschließen Wired Mode
 - o separater Gigabit-LAN-Anschluss erforderlich (ggf. Netzwerkkarte nachrüsten)
 - o IPU anschließen
 - Stromkabel
 - Master-Data-Kabel an XRpad
 - Ethernet-Kabel an Gigabit-LAN
 - Trigger-Kabel anschließen (optional)
 - IPU einschalten (AC Input LED muss gr
 ün leuchten und DC Output LED gelb)
 - XRpad einschalten / Power-Button am Detektor oder IPU f
 ür 2 Sekunden
 gedr
 ückt halten bis DC Output LED an IPU gr
 ün leuchtet



- Netzwerk konfigurieren
 - XRpad-Adresse ist standardmäßig 192.168.2.158 / Maske 255.255.255.0
 - Gigabit-LAN Adresse auf 192.168.2.2 / Maske 255.255.255.0 setzen
- XRpad konfigurieren
 - im Browser URL 192.168.2.158 öffnen / Benutzername = admin / Passwort = PerkinElmer
 - pr
 üfen, dass Image Transfer auf LAN steht, ggf. umstellen / mit Apply bet
 ätigen
- Netzwerk testen
 - in Kommandozeile ping 192.168.2.158 / muss Antwort kommen (ggf. Firewall umstellen)
 - mit XIS testen
- Panel umstellen auf Wireless Mode (mit externem Router) -> nur XRpad 4336 WiFi
 - XRpad muss vorher im Wired Mode angeschlossen werden (siehe oben)
 - empfohlene Voraussetzungen Router
 - Dual-Band 2.4 GHz/5G Hz
 - Full 3x3 MIMO Antennenanschluss
 - Geschwindigkeit minimum 450 Mbs bei 5 GHz
 - WPA2 Verschlüsselung
 - XRpad für WLAN konfigurieren
 - Akku in XRpad einsetzen
 - im Browser URL 192.168.2.158 öffnen / Benutzername = admin / Passwort = PerkinElmer
 - WLAN Type = Station
 - WLAN Mode = Manual
 - WLAN IP-Adresse = 192.168.22.1 / Maske 255.255.255.0
 - Gateway freilassen
 - Nameserver freilassen
 - WLAN Description = XPad_Router
 - WLAN SSID = SSID des Router (Dokumentation des Routers lesen)
 - WPA2 password = WLAN-Zugangspassworts des Routers (Dokumentation des Routers lesen)
 - Repeat WPA2 password = WLAN-Zugangspasswort wiederholen
 - pr
 üfen, dass Image Transfer auf WLAN steht, ggf. umstellen / mit Apply bet
 ätigen
 - Router vorbereiten
 - Router an Gigabit-LAN anschließen
 - Dokumentation des Router verwenden um Verbindung zum Router herzustellen und Router zu konfigurieren
 - dazu muss ggf. die IP-Adresse des Gigabit-LAN-Anschlusses vorrübergehend angepasst werden (optional kann auch anderer Netzwerkanschluss verwendet verwenden)
 - wenn Verbindung zu Router hergestellt ist
 - Router als Access Point konfigurieren
 - WPA2 Verschlüsselung aktivieren
 - SSID und WLAN-Zugangspasswort pr
 üfen (beides muss gleich wie im XRpad sein)
 - zum Schluss die IP-Adresse des Routers auf 192.168.22.3 / Maske 255.255.255.0 setzen und Router neu starten
 - Gigabit-LAN-Anschluss IP-Adresse auf 192.168.22.2 setzen, Router dort anschließen (falls momentan an anderem Anschluss)
 - Akku in XRpad einsetzen
 - Detektorkabel (zwischen XRpad und IPU) entfernen
 - Netzwerk testen
 - in Kommandozeile ping 192.168.22.3 / muss Antwort kommen (ggf. Firewall umstellen)
 - in Kommandozeile ping 192.168.22.1 / muss Antwort kommen (ggf. Firewall umstellen)
 - mit XIS testen



- Konfiguration der Lizenz im digipaX
 - o Modul "Röntgenbildaufnahme" aktivieren
 - Modul "Perkin Elmer XRpad" aktivieren
 - o Modul "Bildfilter (Postprocessing)" aktivieren
- Gerätenabindung
 - o Generator GENESIS
 - Anbindung direkt
 - Übergabeverzeichnis "pub" einstellen (im Installationsordner Generator)
 - Tag für Procedure Code "Requested Procedure ID" einstellen
 - senden der Procedure Codes mit Schalter zur Bildaufnahme aktivieren (Buttons für Bildaufnahme zusammenfassen)
 - o Detektor Perkin Elmer
 - Tag f
 ür Procedure Code "Scheduled Procedure Step Code Meaning" einstellen
 - ggf. Bildzuschnitt mit einschalten
 - bei Verwendung von stehenden Rastern Option zur Rasterunterdrückung aktivieren und verwendete Auflösung des Rasters bzw. der Raster eintragen
 - beide Tags auch auf Karte Auftragsverwaltung entsprechend der Position der Procedure Codes in der Organtabelle einstellen
- bei externem Trigger Einstellungen setzen oder prüfen
 - o XIS-Software starten und Detektor initialisieren
 - o Menü: Options / Detector Options
 - Schalter "Select / TrigOut Signal"
 - Einstellungen entsprechend Generator festlegen bei GENESIS-Generator:

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

- Patientenverwaltungskarte aktivieren (Nutzer::Nutzeroberfläche)
- digipaX neu starten
- Kalibrierung des Detektors nach Anleitung durchführen
- Smybol für Aufnahmeschalter im digipaX setzen (Nutzer::Bildaufnahme; Datei BodyGenX\Symbols\Xray02.png)



3 Einstellungen der Router

3.1 D-Link DAP-1665

Überblick IP-Adressen:

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

Konfiguration des Routers:

ACHTUNG! Bei den Einstellungen des Network Names (SSID) und des WPA-Schlüssels auf Großund Kleinschreibung am Router und sowohl am XRpad achten. Einstellungen alte Firmware:

DAP-1665 // AP	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
SETUP WIZARD	WIRELESS NETWO	RK			Helpful Hints
WIRELESS SETUP	Use this section to co that changes made or Save Settings Do	Wireless Mode : Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Bridge, Bridge with AB and			
	WIRELESS MODE	:			Repeater. Function
	w	reless Mode : Acce	ss Point 🔹 Site Survey		wreass modes are designed to support various wireless network topologies and applications.
	2.4GHZ WIRELES	S NETWORK SETTI	NGS :		Wireless Network Name
	Ena	ble Wireless : 🗵	Always 👻 🛛 Add New		:
	Wireless Ne	twork Name : XRAY	_SWISS (Also cal	lled the SSID)	Network Name is the first
	8	02.11 Mode : Mixe	d 802.11n, 802.11g and 802.11b	•	step in securing your wireless network. We
	Enable Auto C	ess Channel : 6	T.		recommend that you change it to a familiar name
	Ch	annel Width : Auto	20/40MHz 🔻		that does not contain any personal information.
	Visi	bility Status : 💿 🛛	/isible 🔘 Invisible		- Hidden Wireless •
			NC -		Enabling Hidden Mode is
	2.40HZ WIRELES	SECORITY SETTI	NG :		your network. With this
	36	WPA Mode : AUTO	(WPA or WPA2) -		clients will be able to see
		Cipher Type : TKIP	and AES 👻		your wireless network when they perform scan to
	Pre	Shared Key : ••••	•••••		see what's available. In order for your wireless
	5GHZ WIRELESS	IETWORK SETTING	S:		devices to connect to your AP, you will need to manually enter the Wireless
	Ena	ble Wireless : 🗵	Always 👻 🛛 Add New		Network Name on each device.
	Wireless Ne	twork Name : XRAY	_SWISS (Also ca	lled the SSID)	Security Keys
	8	02.11 Mode: Mixe	d 802.11ac, 802.11n and 802.11a	*	If you have enabled
	Wire	ess Channel : 36	×		wireless Security, make sure you write down WEP
	Enable Auto C	annel Width : Auto	20/40/80 MHz 👻		Key or Passphrase that you have configured. You will
	Visi	bility Status : 💿 🛛	/isible 🔘 Invisible		need to enter this information on any wireless
	5GHZ WIRELESS	SECURITY SETTING	i :		device that you connect to your wireless network.
	Se	curity Mode : WPA	Personal 👻		Bridge setting :
		WPA Mode : AUTO) (WPA or WPA2) 🔻		If you want to bridge with the other Bridge AP, please
		Cipher Type : TKIP	and AES 👻		write down the MAC address of the Bridge AP.
	Pre	-Shared Key : ••••	•••••		Besides, you also need to write down the MAC



Einstellungen alte Firmware:

			Home	Settings	Managemer	at
Existing N	letwork C		ted			
Crick of any term in the	alagram or more in	nonnation.				
Uplink Ro	outer	DAP-1	1665	Connected	Clients: 1	
((n)			
C	"	C		a		
DAP-1005						
모 IPv4 Network			🐨 Wi-F	i 2.4GHz		
MAC Address:	80:26:89:B3:CA:10		Status:	Disable	d	
IP Address:	192.168.22.3		Wi-Fi Nam	e (SSID): Not Ava	illable	
Subnet Mask:	255.255.255.0		Password	: Not Ava	illable	
Default Gateway:	Not Available		TWI-F	i 5GHz		
Secondary DNS Server	r: Not Available		Status:	Enabled	t	
-			Wi-Fi Nam	e (SSID): DIGIPA	х	
보 IPv6 Network			Password	: avrmx0	5405	
Link-Local Address: Router IPv6 Address:	FE80::8226:89FF:FE	EB3:CA10		G	o to settings э	
Default Gateway:	Not Available					
Primary DNS Server:	Not Available					
Secondary DNS Server	r: Not Available					
1	Extender					
	Extender Ise this section to config is section may also ne	gure the wireless s ed to be duplicated	ettings for your D-Lini d on your Wireless Cli	k Ap. Please note ti ent.	hat changes made on	
ettings >> Wireless	Extender Jese this section to config his section may also ne	gure the wireless s ed to be duplicated	ettings for your D-Lini d on your Wireless Cli Multi-SSID	k Ap. Please note ti ent. WiFi VI AN	hat changes made on	
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ettings >> Wireless xisting Network	Extender Jee this section to confi nis section may also ne Wireless Moo Statu Wi-Fi Name (SSIT Passwor	Pure the wireless s Pure	ettings for your D-Lini d on your Wireless Cli Multi-SSID	k Ap. Please note ti ent. <u>WiFi VLAN</u>	hat changes made on Save	
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ettings >> Wireless xisting Network 4GHz Extended Wi-Fi GHz Extended Wi-Fi	Extender Jse this section to config its section may also ne Wireless Mod Statu Wi-Fi Name (SSII Passwor Statu Wi-Fi Name (SSII Passwo		ettings for your D-Lini J on your Wireless Cli Multi-SSID	k Ap. Please note t ent. WiFi VLAN	hat changes made on Save Advanced Settings	
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ettings >> Wireless xisting Network 4GHz Extended Wi-Fi GHz Extended Wi-Fi GHz Extended Wi-Fi ser Limit	Extender Jee this section to config is section may also ne Wireless Mod Statu Wi-Fi Name (SSII Passwor Statu Wi-Fi Name (SSII Passwor Statu WPS-PBC statu WPS-PIN Statu		ettings for your D-Lini J on your Wireless Cli Multi-SSID	k Ap. Please note t ent. WiFi VLAN	hat changes made on Save Advanced Settings	
ettings >> Wireless ettings >> Wireless stisting Network 4GHz Extended Wi-Fi GHz Extended Wi-Fi GHz Extended Wi-Fi ser Limit	Extender Jee this section to config is section may also ne Wireless Mod Statu Wi-Fi Name (SSII Passwor Statu Wi-Fi Name (SSII Passwor Statu Wi-Fi Name (SSII Passwor Statu WPS-PBC statu WPS-PIN Statu Statu Statu		ettings for your D-Lini J on your Wireless Cli Multi-SSID	k Ap. Please note ti ent. WiFi VLAN	hat changes made on Save Advanced Settings	



3.2 D-Link DAP-2660

Überblick IP-Adressen:

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

Konfiguration Zugangsdaten des Routers:

D-Link	DAP-2660						
🔹 Home 🥻 Maintena	nce 🕶 🔚 Configuration 👻 🏐 System 💆 Logout 👘 Help						
DAP-2660	Administration Settings						
Wireless	Limit Administrator						
IPv6 IPv6 IPv6 IPv6 IPv6 Advanced Settings	System Name Settings 📕						
🗄 🍯 Status	Login Settings 🛛						
	Login Name admin New Password digi4admin Confirm Password Apply New Password Console Settings SNMP Settings SNMP Settings Ping Control Setting LED Settings Central WiFiManager Setting Save						



LAN Konfiguration Router:

D-Link					DAP-2	2660
🔹 Home 🛛 🔏 Maintenand	ce 🔻 🔚 (Configuration 🔻	😓 System	Logout	0	Help
DAP-2660 Basic Settings Wireless LAN IPv6 Advanced Settings Status	LAN Setting Get IP From IP Address Subnet Mask Default Gateway DNS	S Static IP (Manua 192.168.22.3 255.255.255.0	a) -		Save	



Konfiguration 5GHz:

ACHTUNG! Bei den Einstellungen des Network Names (SSID) und des WPA-Schlüssels auf Großund Kleinschreibung am Router und sowohl am XRpad achten.

D-Link		DAP-2660
🔹 Home 🛛 🔏 Mainter	nance 🔻 🚽 Confi	iguration 🕶 👙 System 💋 Logout 🕐 Help
Home Mainter DAP-2660 Basic Settings Wireless Wireless LAN IPv6 Advanced Settings Status	Annce Confi Wireless Settin Wireless Band Mode Network Name (SSID) SSID Visibility Auto Channel Selection Channel Channel Width Authentication PassPhrase Settings WPA Mode Cipher Type Manual Activated From	Iguration ▼ System Logout Help GS SGHz Access Point DIGIPAX Enable Enable Enable Auto 20/40/80 MHz WPA-Personal AUTO (WPA or WPA2) Auto Group Key Update Interval 3600 (Seconds) Periodical Key Change Sun : 00 : 00 : 00
	Time Interval PassPhrase Confirm PassPhrase	1 (1~168)hour(s)



Konfiguration 2.4GHz:

Hier sollte das WLAN nicht konfiguriert werden, da sich das XRpad grundsätzlich mit 5GHz verbinden soll. Damit hier aber kein offenes WLAN entsteht, die WPA-Verschlüsselung aktivieren und irgendein Passwort (digi4admin) vergeben und zusätzlich die SSID verbergen.

D-Link		DAP	-2660						
🔌 Home 🥉 Mainte	enance 🔻 🔚 Co	nfiguration 🔻 👙 System 💋 Logout 😢	Help						
DAP-2660	Wireless Sett	Wireless Settings							
Wireless LAN Pv6 Status	Wireless Band Mode Network Name (SSID) SSID Visibility Auto Channel Selection Channel Channel Width Authentication PassPhrase Settings WPA Mode Cipher Type Manual Activated From Time Interval PassPhrase Confirm PassPhrase	2.4GHz Access Point dink Disable Enable Enable 20 MHz WPA-Personal AUTO (WPA or WPA2) Auto Group Key Update Interval 3600 (Seconds) Periodical Key Change Sun : 00 : 00 1 (1~168)hour(s) 							



Routereinstellungen speichern:

Über "Configuration / Save and Activate" alle Einstellungen zum Schluß speichern. Router wird automatisch neu gestartet.