Addendum to Active Breathing Coordinator R3.0 Installation and Service

Installation Instructions for Windows 10

A1 Laptop software installation for Windows 10

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A1.1 Description of the laptop software installation procedures

This is a description of the laptop software installation procedure, which Elekta does for new equipment.

Before the system is accepted, the local Elekta business unit configures the laptop and installs the control software. The installation and configuration procedures must be completed in the sequence specified. To do a check that the laptop configuration is correct, follow the applicable procedures.



WARNING 5.1

Do not install software which is not approved by Elekta. The result can be system malfunctions. If you ignore this warning, you can cause clinical mistreatment.

A1.2

Configuring the laptop when it is switched on for the first time

This is the procedure to configure the Active Breathing CoordinatorTM laptop when it is switched on for the first time.

If it is necessary, you must configure the laptop when it is switched on for the first time.

- 1 Select the Country/Region, language, keyboard layout and time zone, click Next.
- 2 Accept the legal agreement.
- **3** Skip the network connection step, and click Use Express settings.
- 4 Type a user name which is not **ABC** or **ABC administrator**.
- 5 A password is not needed.
- 6 Click Not now for using Cortana.
- 7 Support and Protection can be left blank.
- 8 Open Settings from the Start button, select System and click About. Click Rename PC and type the computer name as ABC-<serial number of the Active Breathing Coordinator™>

A1.3 Configuring the user accounts

This is the procedure to configure the user accounts on the Active Breathing Coordinator™ laptop.

Configure an Administrator and a User account on the Active Breathing CoordinatorTM laptop and disable all other user accounts.

- 1 Switch on the Active Breathing Coordinator[™] laptop.
- 2 Log on as the administrator user.

Note:

Do not try to use the control software with a different operating system than Windows[®] 10 operating system.

3 Make sure that there are no programs installed which were not supplied by Dell. If it is necessary, uninstall the third-party programs from within Control Panel -> Programs -> Programs and Features. Control Panel can be reached by Right-Click the Start button. You may have to restart the laptop after removing the programs.



- *Note:* This includes removing anti-malware software, the Dell Client System Update, and the full Dell Backup and Recovery Manager software. You can keep the supplied CD/DVD writer software.
 - 4 Configure the laptop with the ABC administrator and ABC user accounts (see Table 5.1).

User name	Туре	Password
ABC administrator	Administrator	elekta
ABC	Standard user	abc

Table 5.1Laptop user accounts

a Open Settings, click Accounts, and select Family & other people.



- b Select Add someone else to this PC. A dialog box will open.
- $c \qquad \mbox{In the user name text box, type } \textbf{ABC}.$

d Type **abc** in the password text boxes. The hint can be a space.

e Click Next, and verify the user is a Standard user by clicking the name and selecting Change account type.

🔅 Home	Sign in with a Microsoft account to see your family here or add any
Find a setting	new members to your family. Family members get their own sign-in and desktop. You can help kids stay safe with appropriate websites, time limits, apps, and games.
Accounts	Sign in with a Microsoft account
RE Your info	
Email & app accounts	Other people
A Sign-in options	Allow people who are not part of your family to sign in with their own accounts. This won't add them to your family.
Access work or school	+ Add someone else to this PC
R ₊ Family & other people	
C Sync your settings	ABC Local account
	ABC administrator Administrator - Local account
	Change account time Demous

- f Select Add someone else to this PC. A dialog box will open.
- $g \qquad \mbox{In the text box, type} \ {\tt ABC} \ {\tt administrator}.$
- h Type **elekta** in the password text boxes. The hint can be a space.
- i Click Next, and verify the user is an Administrator by clicking the name and selecting Change account type. Select Administrator and click the Okay button.

Change account type ABC administrator				
Administrator				
Standard User				
			ОК	Cancel
	8	ABC administrator Local account		

- j Log off.
- $k \qquad \text{Log on to the ABC administrator user account.}$
- 1 Open Settings, click Accounts, and select Family & other people.
- m Delete all other accounts by clicking the account name and then click the Remove button.The only user accounts on the laptop must be ABC and ABC administrator.



A1.4 Configuring the laptop power settings

This is the procedure to configure the power settings on the Active Breathing Coordinator™ laptop. The laptop power settings must be correctly configured.

- 1 Log on as the ABC administrator.
- 2 Open the Control Panel.
- 3 Make sure that **View By** is set to **Category**.
- 4 Select Hardware and Sound.
- 5 Select Power Options.
- 6 In the left pane, select **Create a power plan**.
- 7 Select the **High performance** radio button.
- 8 In the text box below Plan name, type ABC power plan.
- 9 Click Next.

Note: To select the Never option, you must delete what is currently in the text box or enter 0.

- 10 Set both sleep modes to Never.
- 11 Click Create.
- 12 Select the ABC power plan radio button.
- 13 Click Change plan settings.
- 14 Click Change advanced power settings.

The Power Options window opens.

	On battery	Plugged in		
Turn off the display:	Never ~	Never ~	Power Options	?
			Advanced settings	
Put the computer to sleep: Adjust plan brightness:	Never v	Never v	Select the power plan that you want to custom then choose settings that reflect how you want computer to manage power.	ize, and your
			ABC power plan [Active] \sim	
Change advanced power setting:	8	Save changes Cano	El Hard disk Turn off hard disk after On battery (Minutes): O Plugged in: Never Internet Explorer Destop backtopound settings Winders Adveter Settioner	^
			Wireless August Securitys Seep USS settings Intel(R) Graphics Settings Conset buttone and lid	~

- 15 In the bottom pane of the Power Options window, select Hard disk > Turn off hard disk after.
- 16 In the drop-down list, select On battery: Never, and Plugged in: Never
- 17 In the bottom pane of the Power Options window, select Sleep > Sleep after.
- 18 In the drop-down list, select **On battery: Never**, and **Plugged in: Never**.
- 19 In the bottom pane of the Power Options window, select Sleep > Allow hybrid sleep.
- 20 In the drop-down list, select On battery: Off, and Plugged in: Off.
- 21 In the bottom pane of the Power Options window, select Sleep > Hibernate after.
- 22 In the drop-down list, select **On battery: Never**, and **Plugged in: Never**.
- 23 In the bottom pane of the Power Options window, select Sleep > Allow wake timers.
- 24 In the drop-down list, select On battery: Disable, and Plugged in: Disable.
- 25 In the bottom pane of the **Power Options** window, select **USB settings** > **USB selective suspend** setting.
- 26 In the drop-down list, select On battery: Enabled, and Plugged in: Enabled.
- 27 In the bottom pane of the Power Options window, select Power buttons and lid > Lid close action.
- 28 In the drop-down list, select On battery: Do nothing, and Plugged in: Do nothing.
- 29 In the bottom pane of the Power Options window, select Power buttons and lid > Power button action.
- 30 In the drop-down list, select On battery: Shut down, and Plugged in: Shut down.
- 31 In the bottom pane of the Power Options window, select Processor power management > Minimum processor state.
- 32 In the drop-down list, select **On battery: 100%**, and **Plugged in: 100%**.
- 33 In the bottom pane of the Power Options window, select Processor power management > System cooling policy.
- 34 In the drop-down list, select On battery: Active, and Plugged in: Active.
- 35 In the bottom pane of the Power Options window, select Processor power management > Maximum processor state.

- 36 In the drop-down list, select **On battery: 100%**, and **Plugged in: 100%**.
- 37 In the bottom pane of the Power Options window, select Display > Dimmed display brightness.
- 38 In the drop-down list, select **On battery: 100%**, and **Plugged in: 100%**.
- **39** In the bottom pane of the **Power Options** window, select **Display** > **Turn off display after**.
- 40 In the drop-down list, select **On battery: Never**, and **Plugged in: Never**.
- 41 In the bottom pane of the **Power Options** window, select **Display** > Enable adaptive brightness.
- 42 In the drop-down list, select On battery: Off, and Plugged in: Off.
- **43** In the bottom pane of the **Power Options** window, select **Battery** > **Critical battery action**.
- 44 In the drop-down list, select On battery: Hibernate, and Plugged in: Do nothing.
- 45 In the bottom pane of the Power Options window, select Battery > Low battery level.
- 46 In the drop-down list, select On battery: 15%, and Plugged in: 15%.
- 47 In the bottom pane of the **Power Options** window, select **Battery** > **Critical battery level**.
- 48 In the drop-down list, select On battery: 5%, and Plugged in: 5%.
- 49 In the bottom pane of the Power Options window, select Battery > Low battery notification.
- 50 In the drop-down list, select On battery: On, and Plugged in: On.
- 51 In the bottom pane of the Power Options window, select Battery > Low battery action.
- 52 In the drop-down list, select On battery: Do nothing, and Plugged in: Do nothing.
- 53 In the bottom pane of the **Power Options** window, select **Battery** > **Reserve battery level**.
- 54 In the drop-down list, select On battery: 10%, and Plugged in: 10%.
- 55 Click OK.

The system makes the changes.

A1.5 Configuring the laptop IP settings

This is the procedure to configure the IP settings on the Active Breathing Coordinator™ laptop. The configuration of the laptop IP settings must be correct.

- 1 Log on as the ABC administrator.
- 2 Open the Control Panel.
- 3 Make sure that **View By** is set to **Category**.
- 4 Select Network and Internet.
- 5 Select Network and Sharing Center.
- 6 In the left pane, select **Change adaptor settings**.
- 7 Right click **Ethernet**.

The Ethernet Properties window opens.

- 8 Select Internet Protocol Version 4 (TCP/IPv4).
- 9 Click Properties.
- 10 Select the Use the following IP address: radio button.

- 11 In IP address: type 192.168.1.10.
- 12 In Subnet mask: type 255.255.0
- 13 In Default Gateway: type 192.168.1.1

↑ 😰	Networking	General
	Connect using:	You can get IP settings assigned automatically if your network supports
Disa	Realtek PCIe GBE Family Controller	this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
abled etooth [Configure This connection uses the following items:	Obtain an IP address automatically
	Client for Microsoft Networks	Use the following IP address:
	File and Printer Sharing for Microsoft Networks	IP address: 192 . 168 . 1 . 10
	QoS Packet Scheduler	Subnet mask: 255 . 255 . 255 . 0
	Internet Protocol Version 4 (TCP/IPv4) Microsoft Network Adapter Multiplexor Protocol Microsoft I L DP Protocol Driver	Default gateway: 192 . 168 . 1 . 1
	✓ Internet Protocol Version 6 (TCP/IPv6) ✓	Obtain DNS server address automatically
	< >>	Use the following DNS server addresses:
	Install Uninstall Properties	Preferred DNS server:
	Description	Alternate DNS server:
	Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit Advanced

- 14 Click OK.
- 15 Click Close.
- 16 Right-click Wireless Network Connection.
- 17 Select Disable
- 18 Right click Bluetooth Network Connection.
- 19 Select Disable.





WARNING 5.2

Do not continue unless the Wi-Fi adapter is disabled. The system has no anti-malware software. If you ignore this warning, you can cause clinical mistreatment.

A1.6 Configuring the Windows[®] firewall settings

This is the procedure to configure the Windows \mathbb{B} firewall settings on the Active Breathing CoordinatorTM laptop.

The configuration of the Windows® firewall settings on the laptop must be correct.

- 1 Log on as the **ABC administrator**.
- 2 Open the **Control Panel**.
- 3 Make sure that **View By** is set to **Category**.
- 4 Select System and Security.
- 5 Select Windows Firewall.
- 6 In the left pane, select Turn Windows Firewall on or off.



- 7 Make sure that the **Turn off Windows Firewall (not recommended)** radio button is selected for the:
 - Home or work (private) network location settings
 - Public network location settings.
- 8 Click OK.

A1.7 Disabling the Windows[®] updates

This is the procedure to disable the automatic Windows \mathbb{B} updates on the Active Breathing CoordinatorTM laptop.

The automatic Windows® updates must be disabled.

- 1 Log on as the ABC administrator.
- 2 Click the Start button, and type services.msc and press Enter.
- **3** From the Services list which appears find the Windows Update service, right click, select Properties.
- 4 In Service status, stop the service.
- 5 In Startup type select Disabled.

🔿 🛅 🖬 🖉	a 🚘 🛛 📷 🕨 🔳 II ID		Windows	Update I	Properties (Local Compu	ter)	×
Services (Local)	Name	Description	General	Log On	Recovery	Dependencie	s	
	Windows Insider Service	wisvc						
	Windows Installer	Adds, modi	Service	name:	wuauserv			
	Windows License Manager Service	Provides inf	Display	name:	Windows I	Jpdate		
	Windows Management Instrumentation	Provides a c			Enables th	e detection do	wolcad and installation of	-
	Windows Media Player Network Sharing Service	Shares Win	Descript	ion:	updates fo	r Windows and	other programs. If this	0
	Windows Mobile Hotspot Service	Provides th			3b			
	A Windows Modules Installer	Enables inst	Path to	executabl	e:			
	Strate	Optimizes p	C: \windows\system32\svchost.exe +k hetsvcs					
	Windows Push Notifications System Service	This service	Startup	type:	Disabled			~
	Windows Push Notifications User Service_1adc12	This service						_
	Windows Remote Management (WS-Manage	Windows R						
	Windows Search	Provides co	Senice	et alue :	Gannad			
	Windows Time	Maintains d	Jervice	status.	Stopped			_
	🔐 Windows Update	Enables the	S	tart	Stop	5	Pause Resume	
	WinHTTP Web Proxy Auto-Discovery Service	WinHTTP i	Value	ana cifu ti	a stat a set	motors that and	hundred upper start the exercit	
	Wired AutoConfig	The Wired	from her	e.	ie stait para	inerers niar app	ny when you start the servic	Je .
	WLAN AutoConfig	The WLANS						
	WMI Performance Adapter	Provides pe	Start pa	rameters:				
	Work Folders	This service						
	Section 44	Creates and						

6 Click OK.

The Windows® updates are disabled.

A1.8 Configuring the Windows[®] taskbar for the ABC administrator

This is the procedure to configure the Windows® taskbar for the ABC administrator on the Active Breathing CoordinatorTM laptop.

The configuration of the Windows® taskbar on the laptop must be correct.

- 1 Log on as the ABC administrator.
- 2 Put the pointer on the primary taskbar.
- 3 Right-click and select Settings.

The Taskbar Settings window opens.

- 4 Set **Automatically hide the taskbar** to On for desktop and tablet modebox.
- 5 Close the dialog window.

The Windows $\ensuremath{\mathbb{R}}$ taskbar is configured for the ABC administrator.

A1.9 Installing the IP2USB2VGA drivers

This is the procedure to install the **IP2USB2VGA** device drivers on the Active Breathing CoordinatorTM laptop.

- 1 On a separate computer Download Full Installation Software Package from <u>https://www.aktina.com/product/software-and-downloads/</u> Unzip to a USB flash drive. Connect to ABC computer
- 2 In Windows® Explorer, browse to the subdirectory **IP2USB2VGA\Windows USB Display**

Adapter \Windows 7,8,8.1,10 on the installation stick.

3 Double-click Setup.exe. If the User Account Control dialog box appears, click Yes or Allow.

Accept the Licence agreement. The **DisplayLink** window opens. When the System Check is successful, click **Install**.

📳 Disj	playLink Graphics	DisplayLi	×
•	License Agreement System Check Installation	System Compatibility Check DisplayLink System Compatibility Check has successfully passed and installation can continue.	^
0	Finish		~

4 When the installation is completed click Finish.

	DisplayLin
System Check	Installation Complete
Installation	DisplayLink Graphics installation is now complete.
Finish	Your new DisplayLink Graphics display is now duplicating the Windows desktop.
	Click below to configure the display layout to match your desktop monitor configuration.
	Customize your display
	Finish

- 5 Navigate on the Install Media to the subfolder USB Video Server Software and double click Setup.exe. If the User Account Control dialog box appears, click Yes or Allow. The USB Server installer will run. Click Finish.
- **6** Restart the computer.

InstallShield Wizard Complete
Setup has finished installing USB Server on your computer.
< Back Finish Cancel



- 7 Login as the ABC administrator.
- 8 If the Windows Security Alert window opens, click Allow access



A1.10 Installing the AnywhereUSB drivers

This is the procedure to install the AnywhereUSB device drivers on the laptop.

- 1 Put the installation USB stick in the USB drive.
- 2 In Windows® Explorer, browse to the subdirectory **DIGI** on the installation CD.
- **3** Double-click **40002668_S1.exe**.
- 4 If the User Account Control dialog box appears, click Yes.

🖟 AnywhereUSB - InstallShield	Wizard	×
	Welcome to the InstallShield Wizard for AnywhereUSB The InstallShield(R) Wizard will allow you to modify, repair, o remove AnywhereUSB. To continue, dick Next.	r
	< Back Next > Cancel	
g AnywhereUSB - InstallShie	eld Wizard	х
The wizard is ready to begin	n installation.	
Click Install to begin the ins If you want to review or ch exit the wizard.	tallation. ange any of your installation settings, click Back. Click Cancel to	
	< Back Install Cancel	

 $The \ \textbf{InstallShield opens-Click Next}$

5 Click Next. Accept License Agreement Click Install

	InstallShield Wizard Completed
Digi	The InstallShield Wizard has successfully installed AnywhereUSB. Click Finish to exit the wizard.
	Juanch AnywhereUSB Configuration Utility
	Show the Windows Installer log
	Show the Windows Installer log

- 6 Make sure the checkbox is checked Launch AnywhereUSB Configuration Utility
- 7 Click the Finish.

If the User Access Control window opens, click Yes.

AnywhereUSB Remot	e Hub Configuration Utility			—		\times
Configure Connec	t EventLog					
		Host PC Connection Status:				
No Remote Hubs found						
		Remote Hub Information:		Group	Host Lis	t
Total Discovered: 0	Connected To Me: 0	Available For Connection: 0	In Use By Others: 0	Unco	onfigured: 0	

8 There may or may not be a remote hub found. Either way, close this program window.

A1.11 Installing the DIGI device discovery utility

This is the procedure to install the **DIGI** device discovery utility on the laptop.

- 1 Log on as the ABC administrator.
- 2 If it is necessary, put the Active Breathing Coordinator[™] installation stick in the USB drive.
- 3 In Windows[®] Explorer, browse to the file **40002265_G.exe** at the root of the installation media.
- 4 Double-click 40002265_G.exe
- 5 If the User Account Control dialog box appears, click Yes. The program runs.
- 6 Follow the on screen instructions, accept all the defaults, to complete the installation.

A1.12 Configuring the AnywhereUSB device



This is the procedure to configure the **AnywhereUSB** device, which connects the laptop to the control module of the Active Breathing CoordinatorTM.

NOTE: The laptop must be connected to the trolley, and the full system switched on.

- **1** Switch off the laptop.
- 2 Put the laptop at its trolley position.
- **3** Connect the laptop to the trolley ethernet cable and power supply.
- 4 Switch on the trolley.
- 5 Switch on the control module.
- **6** Switch on the trolley monitor.
- 7 Switch on the laptop.
- 8 Log on as the ABC administrator.
- 9 Click Start > Digi > Digi Device Discovery.
- 10 If the User Account Control dialog box appears, click Yes. The Digi Device Discovery window opens.
- 11 Make sure that the IP Address 192.168.1.49 shows in the IP Address column. If it is, skip to step 13.



12 If there is a different IP address in the IP Address column:

a Double-click on the IP address in the IP Address column:

	IP Address	MAC Address	Name	Device	
Device Tasks	3 169.254.238.8	00:40:9D:AF:94:8F		AnywhereUS	B/2
Open web interface					
Telnet to command line					
Configure network settings					
Restart device					
Other Tasks					
Refresh view					
Help and Support					
Details					
AnywhereUSB/2					
Not properly configured					
IP address: 169.254.238.8					
Subnet mask: 255.255.0.0					
Default gateway: 0.0.0.0					
Serial ports: 0					
Firmware: build 82002116_M1					

The AnywhereUSB/2 Configuration and Management window opens.

b In the left pane, under **Configuration**, select **Network**.

	IP Address		MAC Address	Name	Device
	3 169.254.2	38.8	00:40:9D:AF:94:8F		Anywhe
:e					
d line (settings	Configure Network Se	ttings		×	
_	The network settings of supports this capability, administrator for the ap	an be Other propria	assigned automatically wise, you need to ask te network settings.	if your network your network	
	Device:	Any	whereUSB/2		
	MAC Address:	00:	40:9D:AF:94:8F		
	Obtain network s	ettings	automatically		
	- Manually configu	ire netv	vork settings		
	IP Address:	1	69.254.238.8		
2	Subnet Mask:	2	55.255.0.0		
gured	Default Gateway:		0.0.0.0		
54.238.8					
.255.0.0		Caus	Cancel		

- c Click Manually configure network settings and change the IP Address to 192.168.1.49.
- d Change the Sub Mask to 255.255.255.0.
- e Change the **Default Gateway** to **0.0.0.0**.
- f Click Apply.
- g Click **Apply** again. The device may start again. Shut it down.
- $h \qquad Click \; \textbf{Start} > \textbf{Digi} > \textbf{Digi Device Discovery}.$
- i If the User Account Control dialog box appears, click Yes.

The Digi Device Discovery window opens.

- j Make sure that the IP Address column shows the IP address **192.168.1.49**.
- 13. If the IP address in the IP Address column is 192.168.1.49:
 - a Leave the Digi Device Discovery window open for the time being.
 - $b \qquad Click \ \textbf{Start} > \textbf{AnywhereUSB} > \textbf{AnywhereUSB} \ \textbf{Configuration Utility}.$
 - c If the User Account Control dialog box appears, click Yes.

The AnywhereUSB Remote Hub Configuration Utility window opens.

Configure Conne	e Event Log Reboo	t	
		Host PC Connection Status:	
E Subnet 192.168.	1.0 8 Hub [192.168.1.49]	This Remote Hub is available for Host Connections	
		Remote Hub Information: Name: Remote USB Hub Serial Number: SE72441045	-
		MAC Address: 00409D:AF948F IP Address: 132.168.1.49 Subnet Mask: 255.255.255.0 Gateway: 0.0.0.0	
		DHCP: Disabled Bool Code: v1.9.0986 Firmwaite v1.92.2001 Hardware: Rev A - 62	
		Product Type 2 Port Device ID: Bigi Hardware ID: 0x0002 Uptime: 2 mint: 11 secs	

- d Make sure that the Subnet 192.168.1.0 contains Remote USB Hub [192.168.1.49].
- e Make sure that **Remote USB Hub [192.168.1.49]** is selected.
- e Click Connect.

A message might appear to tell you that the driver was not installed correctly. Ignore this message.

f Make sure that the Host PC Connection Status text box shows Connected to this Host PC. Driver Status: Connection Successful to Remote Hub at 192.168.1.49.

Configure Disconnect Event Log Reboot	
	Host PC Connection Status:
General 192.168.1.0 Subset 192.168.1.49	Connected to this Host PC Driver Status: Connection Successful to Remote Hub at 192 168 1.49
	Name: Bemote LISB Hub
	Serial Number SE72441045 McA. Address: 004000 AF340F IP Address: 192,1861 A9 Subner Mauk: 255,255,05 Galeway: 0,00,0 DHCP:: Disabled
	Boot Code: v1.9.0996 Firmwae: v1.92.2001 Hardwaer: Rev A - 62 Product Type: 2 Port Dervice ID: Digit Hardwaer ID: bu002 Uptime: 32 mins - 43 secs

g Close the Configuration Utility window and the Digi Discovery window.

A1.13 Configuring the IP2USB2VGA device for the ABC administrator

This is the procedure to configure the **IP2USB2VGA** device for the **ABC administrator**. This device connects the laptop to the trolley monitor, keyboard and mouse.

- 1 Make sure that the laptop is at its trolley position and switched on.
- 2 Make sure that the full system is switched on.
- **3** If not already, log on as the **ABC administrator**.
- 4 On the laptop desktop, double-click the Launch USB Server icon. The USB Server window opens. It may take a moment to engage.
- 5 Make sure that the **Device** column of the **USB Server** window shows **Net2VGA (192.168.1.50)**.

USB Serve	r			-		×
File (F) Opti	ons (O) View (V) Help (H)					
Device		Status	Information			
	Net2VGA (192.168.1.50) (068.	000)				
	Display Display	Free Free	1 : DisplayLink DL-195 Adapte	er		
-	Media Device	Free Free	2 : C-Media Electronics Inc.	USB PnP S	ound Devi	ce
	🌱 Input	Free Free	3 : USB Keyboard			
	🌱 Input	Free Free	4 : PixArt USB Optical Mouse			
I						
	Searc	h	Open Web Page			

- 6 If there are no devices below Net2VGA (192.168.1.50), do the steps that follow.
 - a Close the USB Server window.
 - **b** Switch off the Active Breathing CoordinatorTM at the trolley power switch.
 - c After a minimum of 30 seconds, switch on the trolley.
 - d Configure the IP2USB2VGA device for the ABC administrator user again.

7 In the USB Server window, if the Device column shows a different IP Address to Net2VGA (192.168.1.50), do the steps that follow.

evice	Status	Information	Network Setting :
🗄 🎒 USB Server (Server Name : Net2VGA
Display	Different Networ	1 : DisplayLink DL-195 Adapter	Use DHCP
💽 Media D	evice 🗿 Different Networ	2 : C-Media Electronics Inc. USB PnP Sound	IP Address : 169 . 254 . 10 . 10
😙 Input	Different Networ	4 : PixArt USB Optical Mouse	Subnet: 255.255.0.0
			Port1 Port2 Port3 Port4
			Backup Firmware
			Update Firmware
			Change Password

- **a** Select **Options** > **Server Configuration**.
- **b** Make sure that the **Server Name** is **Net2VGA**.
- c Make sure that the **DHCP** check box is not selected.
- $d \quad {\rm Change \ the \ IP \ Address \ to \ 192.168.1.50}$
- e Change the Subnet Mask to 255.255.255.0.
- f Make sure that the Connect automatically check boxes for Port 1, Port 2, Port 3, and Port 4 are all selected.
- 8 If the Device column shows Net2VGA (192.168.1.50), in the list of Net2VGA (192.168.1.50) devices there should be the following 4 devices:

Device	Status		Information			
- Net2VGA (1	92.168.1.50) (068.000)					
Display		Free	1 : DisplayLink DL-195 Adapter			
Media E	Device 🚺	Free	2 : C-Media Electronics Inc.	USB PnP Sou	nd Device	e
S Input	1	Free	3: USB Keyboard			
🌍 Input		Free	4 : PixArt USB Optical Mouse			

a Right-click each device in turn and select the Connect Device

Automatically check box.

b Repeat for all 4 devices.

Close the **USB Server** window.

c On the laptop desktop, double-click the Launch USB Server

icon. The USB Server window opens and should connect all

the devices.

USB Server			_		х
File (F) Options (O) View (V) Help (H,					
Device	Status	Information			
☐	068.000)				
Display	Locally Connected	1 : DisplayLink DL-195 Adapte	er		
Media Device	Locally Connected	2 : C-Media Electronics Inc.	USB PnP S	ound Devi	ce
🤝 Input	Locally Connected	3: USB Keyboard			
🤝 Input	Locally Connected	4 : PixArt USB Optical Mouse			
J					
S	Search	Open Web Page			

- d Minimize the USB Server window.
- *Note:* Do not close the USB Server window, only minimize it. If you close the USB Server window, the USB Server program will disconnect the related devices.

A1.14 Installing the USB device driver software

This is the procedure to install the USB device driver software on the Active Breathing CoordinatorTM laptop.

The installation of the USB device driver software must be correct.

- 1 Make sure that the laptop is at its trolley position and switched on.
- 2 Make sure that the full trolley system is switched on.
- 3 Log on as the ABC administrator and ensure the USB Server is running.
- 4 Open the **Control Panel**.
- 5 Make sure that **View By** is set to **Category**.
- 6 Select System and Security.
- 7 Select System.
- 8 In the left pane, select **Device Manager**.

9 Navigate to Other Devices.



10 Double-click FTDI FT232R USB UART.

The Device properties window opens.

11 Click **Update driver**.

FTDI FT2	32R USB	UART Pro	operties	×
General	Driver	Details	Events	
1	FTDI F	T232R U	SB UART	
	Device	e type:	Other devices	
	Manuf	acturer:	Unknown	
	Locatio	on:	AWUSB\192.168.1.49\ \E72441045\AL01YD4K\0101	
Devi	ce status			
jThe	drivers fo	or this devi	ce are not installed. (Code 28)	
The	re are no	compatible	e drivers for this device.	
To f	ìnd a driv	er for this d	levice, click Update Driver.	
			\sim	
			Update Driver	
			OK Cance	el

- 12 Click Browse my computer for driver software.
- 13 If it is necessary, put the Active Breathing Coordinator[™] installation stick in the USB or the disc in the CD/DVD drive.
- 14 Browse to the subdirectory USB drivers\ABC on the installation disc.
- 15 Click OK.

16 Make sure that the **Include subfolders** check box is selected.

	r
÷	Update Driver Software - FTDI FT232R USB UART
	Browse for driver software on your computer
	Search for driver software in this location:
	D:\ABC Software\USB drivers\ABC V Browse
	Include subfolders
	→ Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
	Next Cancel

17 Click Next.

		×	
~	Update Driver Software - USB Serial Converter		
	Windows has successfully updated your driver software		
	Windows has finished installing the driver software for this device:		
	USB Serial Converter		
	Close		

18 Click Close.

- 19 Click Close.
- 20 On the Driver Manager window:
- Navigate age to Other Devices.



21 Double-click USB Serial Port.

The Device properties window opens.

- 22 Click Update driver.
- 23 Click Browse my computer for driver software.
- 24 Browse to the subdirectory USB drivers\ABC on the installation disc.
- 25 Click OK.
- 26 Make sure that the **Include subfolders** check box is selected.
- 27 Click Next. The driver should install successfully.

	×
Update Driver Software - USB Serial Port (COM3)	
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
USB Serial Port	
Close	

- 28 Click Close.
- 29 Click Close again.

The installation of the USB device driver software completes

30 Close the Device Driver Manager window.

A1.15 Installing the Active Breathing Coordinator[™] control software

This is the procedure to install the control software on the Active Breathing Coordinator™ laptop. User access to the control software is through the standard operating system controls of the Active Breathing Coordinator™ laptop.

- 1 Log on as the **ABC administrator**.
- 2 If it is necessary, put the installation disc in the laptop CD/DVD drive or the stick in the USB drive.
- 3 In Windows[®] explorer, browse to the root of the install media.
- 4 Find the file ABC Setup 3.00.01 SVN 136.exe
- 5 Double-click the file ABC Setup 3.00.01 SVN 136.exe
- 6 If the User Account Control dialog box appears, click Yes.
- 7 Follow the instructions that appear on the screen, accepting the defaults.
- 8 When the installation is completed, browse to and select C:\Users.
- 9 Right-click on the **ABC** folder.
- 10 Select Properties.
- 11 Select the Security tab.
- 12 Click Edit.
- 13 In the Group or user names pane, select Users (ABC-<serial number of the ABC>\users).

Note: The *<serial number of the ABC>* is the trolley serial number, which is on the trolley identification label.

14 In the **Permissions for Users** pane, make sure that the **Full control** check box below **Allow** is selected.

	pe			
Object name: C:\Users\ABC		Object name: C:\Users\ABC		
C	e fo	Group or user names:		
Croup of user names.	e fo	Sector Everyone		
ST EVERYONE	≞ fo	SYSTEM		
Administration (APC SOMENIUM) Administration)	e fo	Administrators (ABC-SOME	NUM\Administrators)
	FF	Sers (ABC-SOMENUM\U	sers)	
	plic			
To change permissions, click Edit.	de plic			
	pre		Add	Pamoura
Permissions for Users Allow D	Deny		Aug	Helliove
Full control	^ plic	Permissions for Users	Allow	Deny
Modify		Full control		
Read & execute		Modify		
List folder contents		Read & execute	\sim	
Read		List folder contents	\sim	
Write	~	Read	\sim	
For special permissions or advanced settings.	read			
click Advanced.	nced			
		OK	Canaal	Apphy
		OR	Caricei	Apply

15 Click OK.

16 Click OK again.

The control software installation completes.

Installing the GUI language file

A1.16 Installing the GUI language file

This is the procedure to install the GUI language file on the Active Breathing Coordinator[™] laptop. This procedure is only necessary if the intended region of system operation has a GUI language other than English.

- 1 Log on as the **ABC administrator**.
- 2 If it is necessary, put the Active Breathing Coordinator[™] languages disc in the CD/DVD drive.
- 3 Find the applicable language . 1ng file on the languages disc.
- 4 Copy the applicable language file, and its related checksum **.sfv** file, to the directory **C: \Users\ABC\AppData\ABC\Languages**
- 5 Open the **Control Panel**.
- 6 Make sure that **View By** is set to **Category**.
- 7 Select Clock, Language and Region.
- 8 Select Region and Language.

The Region and Language window opens.

9 Make sure that the information in the **Formats**, **Location**, and **Keyboards and Languages** tabs is correct. The local settings, and the software language configuration, must be for the intended region of system operation.

A1.17 Configuring multiple monitors for the ABC administrator

This is the procedure to configure the multiple monitors setting for the ABC administrator. The multiple monitors configuration must be correct.

- 1 Log on as the **ABC administrator**.
- 2 On the Windows® desktop, right-click and select Display Settings. The Screen resolution window opens.
- 3 In the Orientation drop-down list, select Landscape.

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4 In the Multiple displays drop-down list, select Duplicate these displays.

settings	
🐼 Home	
Find a setting	410
System	112
🖵 Display	
E Apps & features	Identify Detect
∃ Default apps	Change the size of text, apps, and other items: 100% (Recommended)
Notifications & actions	I
(¹) Power & sleep	Orientation
Battery	
□ Storage	Adjust brightness level
ሺ Offline maps	Multiple displays
더 Tablet mode	Duplicate these displays \sim
D Multitasking	Apply Cancel
	Advanced display settings

- 5 Click **Apply** if necessary.
- 6 Click Advanced display settings.
- 7 Make sure that the **Resolution** setting is **1024 x 768**.
- 8 Click **Apply** and Keep Changes.

A1.18 Configuring the screen saver and background for the ABC administrator

This is the procedure to configure the screen saver and background on the Active Breathing CoordinatorTM laptop for the **ABC administrator**.

The screen saver and background configuration must be correct.

- 1 Log on as the **ABC administrator**.
- 2 Open the **Control Panel**.
- 3 Make sure that **View By** is set to **Category**.
- 4 Select Appearance and Personalization.
- 5 Select Personalization.
- 6 Select the Screen saver icon at the bottom of the Personalization window.
- 7 Make sure that the **Screen saver** drop-down list has **(None)** selected.
- 8 Click OK.
- 9 Select the **Desktop Background** icon at the bottom of the **Personalization** window.

- 10 Browse to the CD/DVD drive.
- 11 Select the file ABC wallpaper-splash screen.jpg
- 12 Click Save Changes.

The screen saver and background configuration completes.

A1.19 Configuring the Windows[®] group policy

This is the procedure to configure the Windows [®] *group policy on the Active Breathing Coordinator*[™] *laptop.*

- 1 Log on as the ABC administrator.
- 2 Click Start.
- 3 In the Start Search text box, type gpedit.msc and press ENTER.
- 4 Browse to Computer Configurations\Administrative Templates \Windows Components\Windows Installer.



- 5 In the right pane of the Local Group Policy Editor, double-click Turn off Windows Installer. The Turn off Windows Installer window opens.
- 6 Select the **Enabled** radio button.

7 Make sure that Always is selected in the bottom left pane below Disable Windows Installer.

🞫 i urn ott windows installer	
Turn off Windows Installer	Previous Setting Next Setting
) Not Configured Comment:	^
Disabled	
Supported on	At least Windows 2000
ptions:	Help:
llways	 If you enable this policy setting, you can prevent users from installing software on their systems or permit users to install only those programs offered by a system administrator. You can use the options in the Disable Windows Installer box to establish an installation setting. The "Never" option indicates Windows Installer is fully enabled. Users can install and upgrade software. This is the default behavior for Windows Installer on Windows 2000 Professional, Windows XP Professional and Windows Vista when the policy is not configured. The "For non-managed applications only" option permits users to install only those programs that a system administrator assigns (offers on the desktop) or publishes (dads them to Add or Remove Programs). This is the default behavior of Windows Installer on Windows Installer on Windows Server 2003 family when the policy is not configured.
	OK Cancel Apply

8 Click OK

The **Windows Installer** is disabled. The setup and configuration of the **ABC administrator** user is completed

9 Close the Local Group Policy window.

10 Log out.



Note: At this time, you must log out and log on as the **ABC** user to complete the software configuration.

A1.20 Configuring the IP2USB2VGA device for the ABC user

This is the procedure to configure the IP2USB2VGA device for the ABC user.

- 1 Make sure that the laptop is at its trolley position and switched on.
- 2 Make sure that the full system is switched on.
- **3** Log on as the **ABC** user.
- 4 On the laptop desktop, double-click the Launch USB Server icon. The USB Server window opens.
- 5 In the USB Server window, make sure that the Device column shows Net2VGA (192.168.1.50).

🙆 USB Server — 🗆 🗙						
File (F) Options (O) View (V) Help (H)						
Device	Status	Information				
😑 🕋 Net2VGA (192.168.1.50) (068.	000)					
Display	Free Free	1 : DisplayLink DL-195 Adapte	r			
Media Device	Free Free	2 : C-Media Electronics Inc.	USB PnP So	ound Devi	œ	
🤝 Input	Free Free	3 : USB Keyboard				
🤭 Input	Free Free	4 : PixArt USB Optical Mouse				
J						
Searce Searce	h	Open Web Page				

- 6 If the Device column shows Net2VGA (192.168.1.50), in the list of Net2VGA (192.168.1.50) devices there should be 4 devices:
 - a Right-click each device in turn and select the **Connect Device Automatically** check box.
 - b Repeat this process for each of the 4 devices listed.
 - c Close the **USB Server** window.

This causes the USB Server system to reset the settings.

- 7 On the laptop desktop, double-click the Launch USB Server icon. The USB Server window opens.
- 8 All 4 devices should connect automatically. It could take around 30 to 45 seconds to connect.

USB Ser	ver			-		Х
File (F) Op	otions (O) View (V) Help (H)					
Device		Status	Information			
8-2	Net2VGA (192.168.1.50)(068	3.000)				
_	Display	Locally Connected	1 : DisplayLink DL-195 Adapte	er		
-	Media Device	Locally Connected	2 : C-Media Electronics Inc.	USB PnP So	ound Devi	ice
-	🤝 Input	Locally Connected	3: USB Keyboard			
	🤝 Input	Locally Connected	4 : PixArt USB Optical Mouse			
	Sear	rch	Open Web Page			

- 9 Minimize the USB Server window.
- *Note:* Do not close the USB Server window, only minimize it. If you close the USB Server window, the USB Server program will disconnect the related devices.

A1.21 Configuring the Windows® taskbar for the ABC user

This is the procedure to configure the Windows® taskbar for the **ABC** user on the Active Breathing CoordinatorTM laptop.

The configuration of the Windows® taskbar on the laptop must be correct.

- 1 Log on as the **ABC** user.
- 2 Put the pointer on the primary taskbar.
- 3 Right-click and select Settings.
- 4 The Taskbar Settings window opens.
- 5 Select the Automatically hide the taskbar check box.
- 6 Click OK.

The Windows® taskbar is configured for the ABC user.

A1.22 Configuring the multiple monitors for the ABC user

This is the procedure to configure the multiple monitors setting for the **ABC** *user.* The multiple monitors configuration must be correct. It is highly likely these settings carried over from the ABC administrator – if not follow these procedures.

- 1 Log on as the **ABC** user.
- 2 On the Windows® desktop, right-click and select **Display settings**. The **Customize your display** window opens.
- 3 Make sure that the **Display** setting is **1**|**2**. **Multiple Monitors**.
- 4 In the Multiple displays drop-down list, select Duplicate these displays.
- 5 Make sure that the **Orientation** setting is **Landscape**.
- 6 Click Apply.
- 7 Click Advanced display settings.
- 8 Make sure that the **Resolution** setting is **1024 x 768**.
- 9 Click Apply and Save changes.

A1.23 Configuring the screen saver and background for the ABC user

This is the procedure to configure the screen saver and background on the Active Breathing CoordinatorTM laptop for the **ABC** user.

The screen saver and background configuration must be correct.

- 1 Log on as the **ABC** user.
- 2 Open the Control Panel.
- 3 Make sure that **View By** is set to **Category**.
- 4 Select Appearance and Personalization.
- 5 Select Personalization.
- 6 Select the Screen saver icon at the bottom of the Personalization window.
- 7 Make sure that the **Screen saver** drop-down list has **(None)** selected.
- 8 Click OK.
- 9 Select the **Desktop Background** icon at the bottom of the **Personalization** window.
- 10 Browse to the CD/DVD drive.
- 11 Select the file ABC wallpaper-splash screen.jpg
- 12 Click Save Changes.

The screen saver and background configuration completes

A1.24 Configuring the Action Center and notification area icons for the ABC user

This is the procedure to configure the **Action Center** and notification area icons on the Active Breathing CoordinatorTM laptop for the **ABC** user.

The Action Center and notification area icons must be correct.

- 1 Log on as the **ABC** user.
- 2 Right-click on the **Action Center** icon at the right side of the desktop taskbar in the notification area.
- **3** Select **Open Action Center**.
- 4 In the left pane of the displayed window, select Change Action Center settings.
- 5 Below Security messages, cancel the selection of all the check boxes.
- 6 Below Maintenance messages, cancel the selection of all the check boxes.
- 7 Click OK.
- 8 Right-click on the taskbar.
- 9 Select Properties.

The Taskbar and Start Menu Properties window opens.

10 Below Notification area, select Customize.

The Notification Area Icons window opens.

- 11 Make sure that **Power** is selected as **Show icons and notifications**.
- 12 Make sure that the other icons are selected as **Hide icon and notifications**.
- 13 Click Turn system icons on or off.

The Turn system icons on or off window opens.

- 14 Make sure that **Power** is selected to **On**.
- 15 Make sure that **Clock** is selected to **On**.
- 16 Make sure that the other **System Icons** are selected as **Off**.
- 17 Click OK.
- 18 Click OK again.

The system completes the configuration of the Action Center and notification area icons.

A1.25 Running the control software for the first time

This is the procedure to configure the control software of the Active Breathing CoordinatorTM when it is run for the first time.

You must configure the control software when it is run for the first time.

1 On the Windows® desktop, double-click the ABC 3.00 icon.

The ABC Control dialog box appears with the following message:



2 Click OK.

The system does its system tests. If the system tests are successful, the primary patient screen is displayed.

- 3 In the Load an existing patient, or create a new patient window, click Cancel.
- 4 If it is necessary to change the installed language:
 - a In the menu bar of the primary patient screen, select Settings > System Settings. The

ABC System Settings dialog box appears.

- b In the drop-down list in the **Language** area, select the applicable language for the region of system operation.
- c Click Done.

The primary patient screen is displayed.

- 5 In the menu bar of the primary patient screen, select File > Save System Setting as Default. Click Yes to save the changes to the default settings.
- 6 In the menu bar of the primary patient screen, select File > Exit.

Note: You must close the control software for the changes to the settings to have an effect.

7 On the Windows® desktop, double-click the **ABC 3.00** icon.

The system does its system tests. If the system tests are successful, the primary patient screen is displayed.

- 8 In the Load an existing patient, or create a new patient window, click Cancel.
- 9 Make sure that the respiratory cycle is displayed.
- **10** If the respiratory cycle is not displayed, remove the patient respiratory system from its trolley position and move it up and down.

The system resets the respiratory cycle to its zero start position.