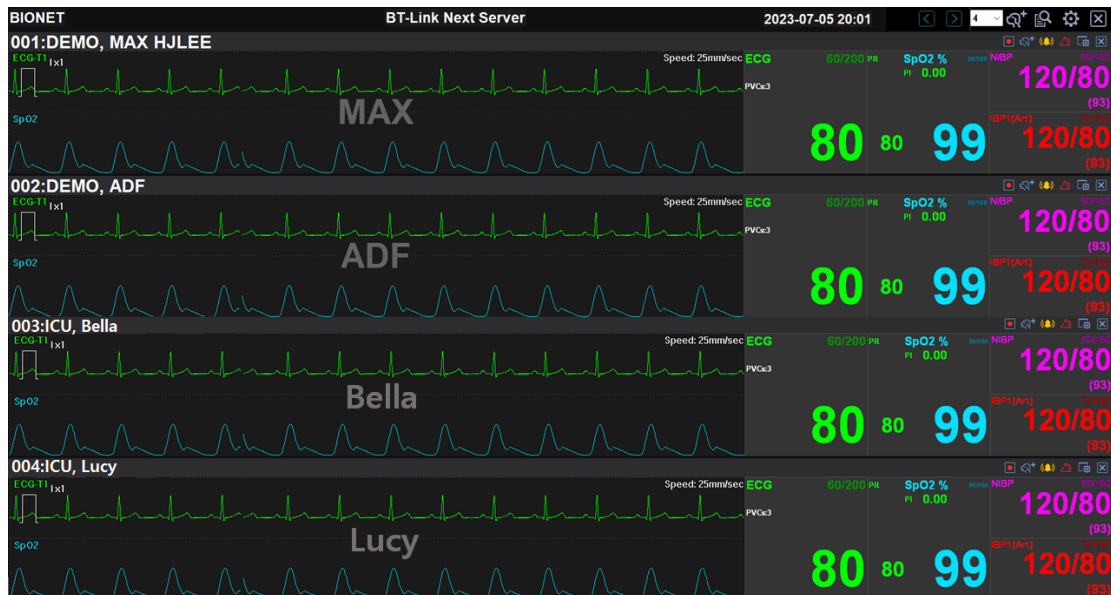


BT-Link Next Quick Manual



Ver. 1.00

07. 24. 2024

Table of Contents

Chapter 1. General.....	5
1. Checkpoints Before Use.....	5
1.1. Registered Trademarks.....	5
1.2. Warnings, Cautions, and Notes.....	6
Chapter 2. BT-Link Next.....	7
2. Installation of BT-Link Next.....	7
2.1. Installation in Windows 10.....	7
2.1.1. Backup	7
2.1.2. Install BT-Link Next Server	7
2.2 Uninstallation of BT-Link Next	11
2.2.1. How to uninstall in a Windows 10 Environment	11
2.3. Execute / Close BT-Link Next.....	12
2.3.1. Execute BT-Link Next.....	12
2.3.2. Close BT-Link Next.....	14
2.4. How to connect.....	15
2.4.1. Brio System Setup.....	15
3. Basic Functions of the Program.....	17
3.1. BT-Link Next Structure	17
3.1.1. Basic Design of BT-Link Next.....	17
3.1.2. Main Menu	17
3.1.3. Client Window.....	17
3.2. Main Menu.....	18
3.2.1. Previous / Next Page	18
3.2.2. 2 ~ 32 Channels.....	18
3.2.3. Patient Manager.....	18
3.2.4. Configuration.....	18
3.2.5. Executes BT-Link Next Review	18
3.2.6. Exit	18
3.2.7. Date/Time.....	18
3.3. Client Window	19

3.3.1. Client Information	19
3.3.2. Alarm Alert.....	19
3.3.3. Recording Time	19
3.3.4. Basic Menu	19
3.3.5. Display Waveform	20
3.3.6. Display Parameter	21
3.3.7. Time & Patient status.....	21
4. Execute and Close BT-Link Next Review	22
4.1. Execute BT-Link Next Review	22
4.1.1. Use of BT-Link Next Review	22
4.1.2. Execute BT-Link Next Review	22
4.2. Close BT-Link Next Review.....	23
4.2.1. Close BT-Link Next Review.....	23
5. BT-Link Next Review Program Structure	24
5.1. BT-Link Next Review Program Structure	24
5.1.1. Review Structure	24
6.1.2. Menu	24
6.1.3. View.....	24
6. How to use BT-Link Next Review Menu	25
6.1. BT-Link Next Review Menu	25
6.1.1. BT-Link Next Review Menu.....	25
6.1.2. Study List	25
6.1.3. Close Study.....	25
6.1.4. Print Preview	25
6.1.5. Print.....	25
6.1.6. Configuration.....	25
6.1.7. Start/End Position, Previous/Next Page, Previous/Next, Move.....	25
6.1.8. EMR Report	25
6.1.9. Wave View	26
6.1.10. Tabular Trend.....	26
6.1.11. Graphic Trend	26
6.1.12. ECG View.....	26

6.1.13. Exit.....	26
7. Q & A.....	27
Chapter 3. BT-Link Next Mobile App.....	30
8. BT-Link Next Mobile App for iOS/Android.....	30
8.1. BT-Link Next Mobile.....	30
8.1.1. BT-Link Next Mobile iOS Installation.	31
8.1.2. Starting the BT-Link Next iOS Mobile App.....	31
8.1.3. BT-Link Next Mobile Android Installation.....	32
8.1.4. Starting the BT-Link Next Android Mobile App.	32
8.2. Function Keys.....	33
8.3. Setting Preferences	34
8.4. Connection.....	37

Note









The specifications and functions described in this instruction manual can be modified without notice for product improvement.

Chapter 1. General

1. Checkpoints Before Use

1.1. Registered Trademarks

- Microsoft Windows and Windows Logo are trademarks of Microsoft Corporation.
- Mac is a trademark of Apple Corporation.
- HDMI, HDMI Logo and High-Definition Multimedia Interface are trademarks of HDMI Licensing LLC.
- Wi-Fi and Wi-Fi logo are trademarks of Wi-Fi association.
- Veterinary multiparameter monitor in the manual means a veterinary multiparameter monitoring device manufactured by Bionet.
- Brio X Series is a trademark of Bionet.
- BM Series is a trademark of Bionet.
- BT-Link Next and BT-Link Next Review are trademarks of Bionet.
- Trademarks and product names indicated in the manual are the trademarks of each company.
- Mark marked on the product

	Caution: Consult accompanying documents		Safety Sign: To signify that the instruction
	Manufacturer		Date of Manufacture
	This way up		Medical device
	Recycle		Keep dry

- Product standard or the contents of the manual may be modified without notice, due to the product improvements.
- Copying the whole or the part of the manual is prohibited unless authorized.
- Use the product in the country where you purchased it.
- BT-Link Next should be used with products provided by our company or those that meet the recommended specifications.

1.2. Warnings, Cautions, and Notes

- The following terms are used throughout this manual to emphasize important and critical information. You must read these statements to help ensure safety and to prevent product damage.
- The manufacturer or the product distributor is not liable for any loss or damage to the product caused by incorrect use or negligence in product maintenance.

Warning
“Warning” Failure to follow this message may cause severe injuries, casualty or physical damage to patients.

Caution
“Caution” Failure to follow this message may cause in non-life-threatening injury or damage to the equipment.

Note
“Note” indicates some important information and tips, which are not dangerous, about installation, operations and maintenance.

Chapter 2. BT-Link Next PC

2. Installation of BT-Link Next

2.1. Installation in Windows 10

Caution
Installation and execution must be done with "administrator rights" or an account with administrator rights.

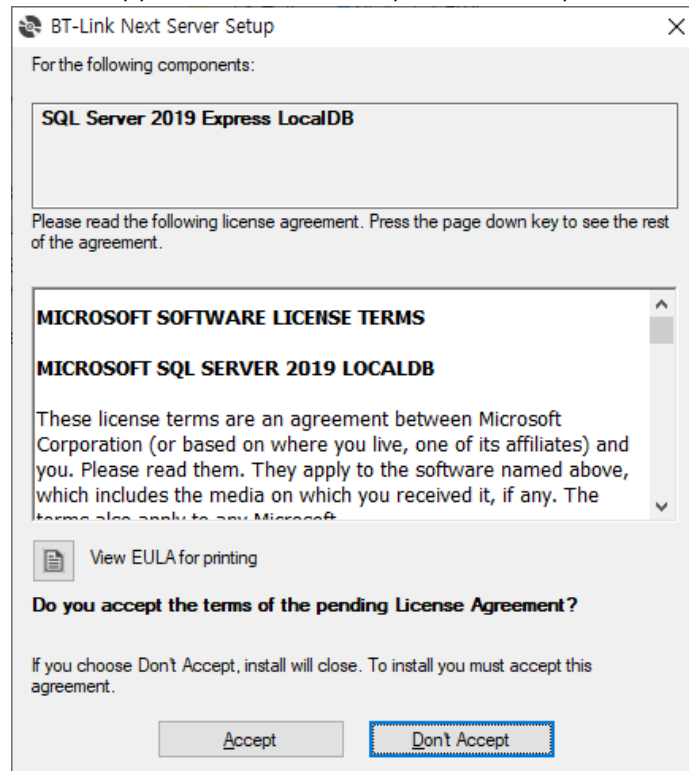
2.1.1. Backup

- (1) If you are using BT-Link Next, you should back up the measurement data and DB data files that manage the data to ensure its safety. After that, start the installation.
- (2) The Data folder is in the Folders folder within User Preferences. Make sure to check this location and back up the Data folder. After reinstalling, restore this backup copy and the DB file by copying them back to the same location.
(default path: C:\Users\User name\AppData\Roaming\BIONET\BMCentral\Data)

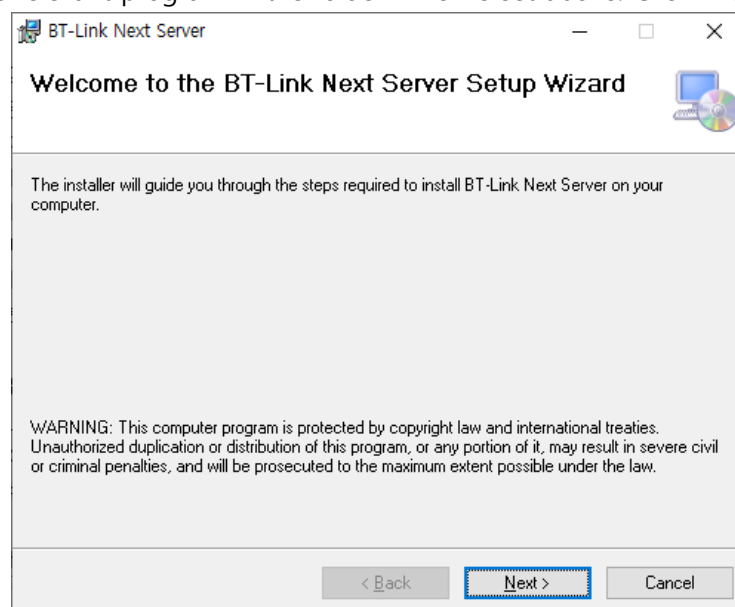
2.1.2. Install BT-Link Next Server

- (3) Close all software in use before installation.
(Depending on the OS environment, automatic reboot may occur after installation.)
- (4) Open downloaded folder.
- (5) Run "setup.exe" included in the from the folder.
(Depending on the OS environment, the installation process may be skipped for already installed s/w packages.)
- (6) When installing in Windows 10 version environment, proceed with installation in administrator mode. (Right-click on the installation icon > Run as administrator)
When the installation screen appears, click the "Next>" button to proceed with the installation.
(NET Framework and MICROSOFT VISUAL C++ 2015-2022 RunTime are automatically installed depending on the PC environment.)
- (7) If you encounter an error, it could mean you are an existing user who has previously installed the BT-Link Next software, or your computer already contains the necessary files.

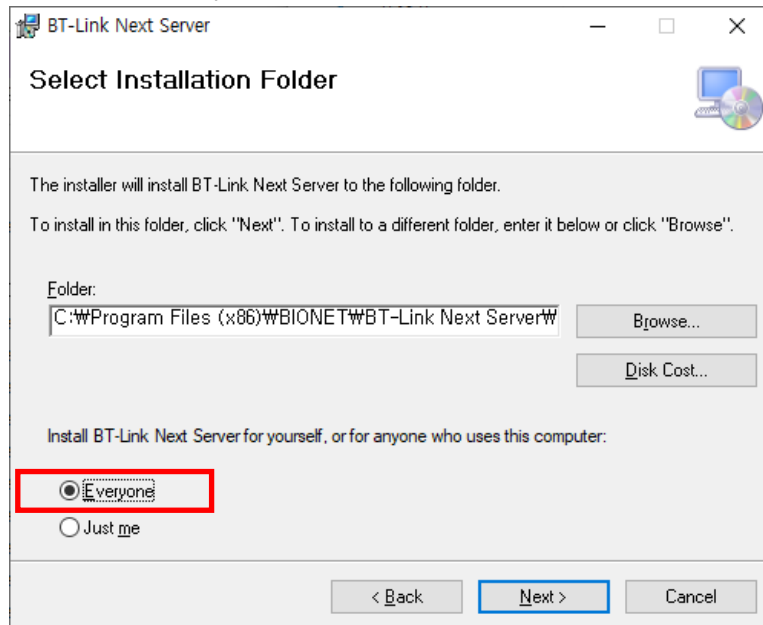
- A. Users who encounter an error during the installation of "Full installation.exe" must use the file named **"BT-Link Next Server v4.03.msi"** for reinstallation.
- B. Note: Depending on your OS environment, the installation process may skip already installed software packages.
- (8) When the screen below appears, click the "Accept" button to proceed with installation.



- (9) Install the relevant program in the folder which is set above. Click "Next" button.

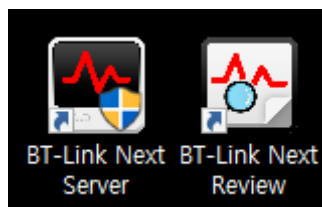


When the next screen appears, click "Browse..." button with the mouse to select the folder where the program will be installed. The recommendation is to select "Everyone" and then click the "Next>" button to proceed with the installation.



(10) Once installation is complete, click "Finish".

(11) If installation is successful, you may see the "BT-Link Next" and "BT-Link Next Review" Icon.



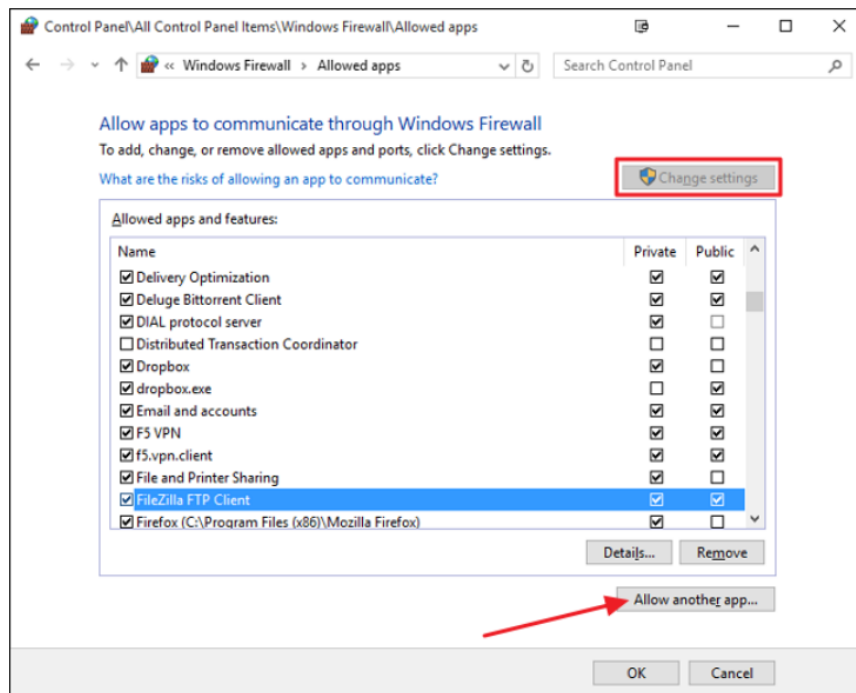
(12) After finishing the installation, access rights should be given in order to make network communication work in Windows 7 and Windows 8. You can register the program to be allowed in Windows Firewall.

(13) Enter "System and security" in Control Panel.

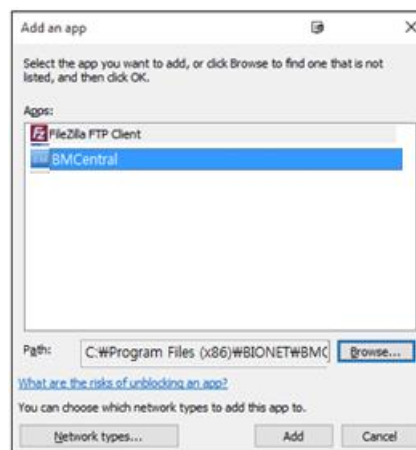
(14) Select "Windows Firewall" in system and security.

(15) Select "Allowed programs" in Windows Firewall.

(16) Click "Allow other app" in allowed programs.



- (17) In 'Add an app' dialogue, select 'Browse'.
- (18) Move to "C:\Users\User\AppData\Roaming\BIONET\BMCentral\" folder where the program exists and select "BMCentral".
- (19) Select the program and click "add".



- (20) If "BMCentral Application" is on the allowed program list, it is properly registered. If it is not properly registered, waves may not be seen even if the program is executed, and equipment is interlocked.
- (21) Register installed program in allowed program list. If you have backup files before installation, copy it to the same folder and use the system.

Caution

Please check for the remaining space, for the data generated while executing the program. While executing the BT-Link Next program, measured data and image saving process for interlocking with EMR will occur. In "preference", "system" of BT-Link Next program, select the hard disk folder which has a sufficient amount of remaining space.

All connections, including PC peripherals and USB Key Lock, should be checked periodically. It should also be used in places where power supply is smooth and stable.

When Audio Pause or Audio Off mode is enabled, audible alarms may not occur on the veterinary multiparameter monitor or the BT-Link Next.

If you enable screen locking, you need to manage your password thoroughly. Patient information may be leaked in case of an external leak, and if the password is lost, system initialization is lost.

2.2 Uninstallation of BT-Link Next

2.2.1. How to uninstall in a Windows 10 Environment

- (1) Move to Start -> Control Panel -> "Add or remove programs" or "Program and Features"
- (2) Select "BT-Link Next" from the program list, right-click and click "Uninstall/Change" or "Uninstall" button.
- (3) Click "OK" or "Yes" to delete program.

Warning

Disinfect and decontaminate PC equipment to prevent infection before disposal. Patient information must also be deleted, and disk formatting must be performed after deletion.

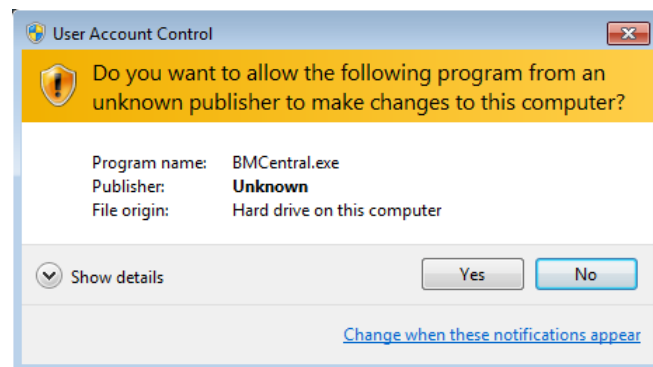
Caution

Measured data and images saved for interlocking with EMR, which have occurred while executing BT-Link Next program, are not deleted. Decide whether you are going to use the data and remove it manually.

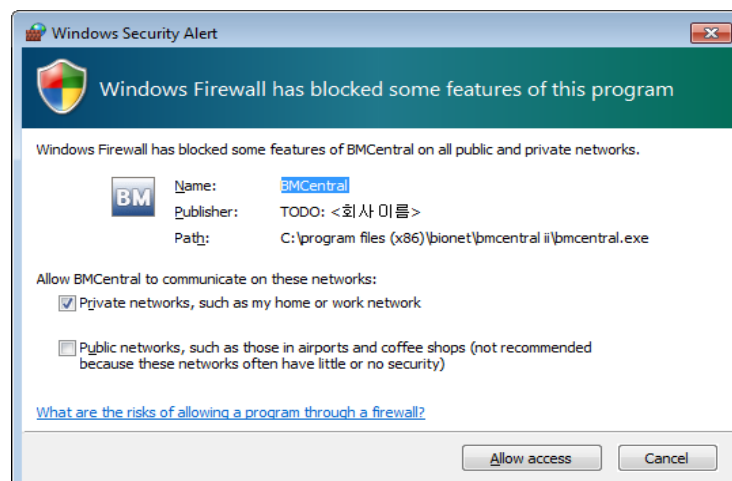
2.3. Execute / Close BT-Link Next

2.3.1. Execute BT-Link Next

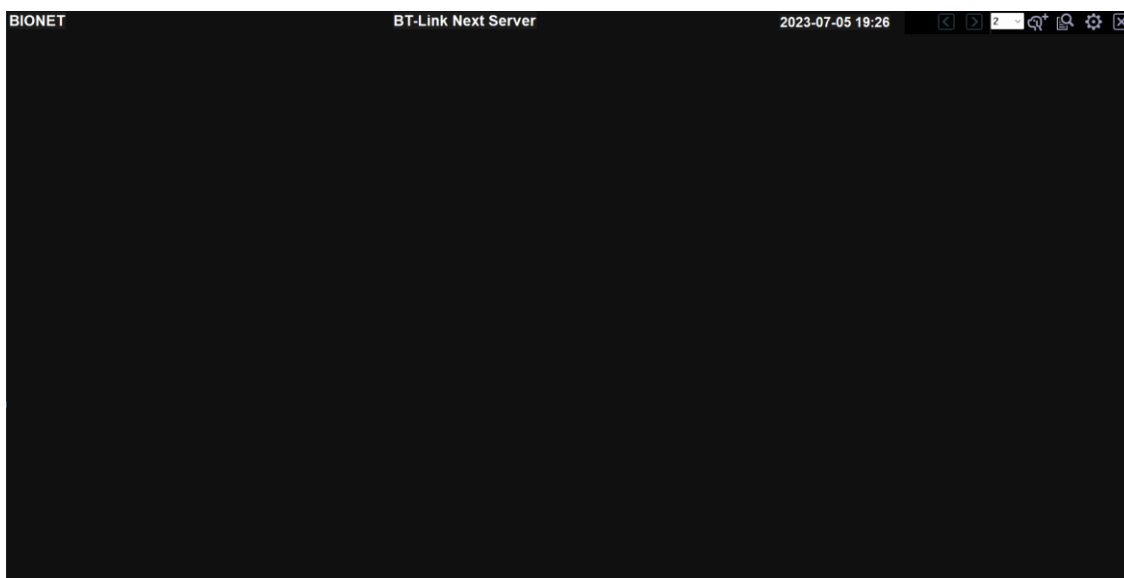
- (1) Double-click "BT-Link Next Server" Icon on Desktop.
- (2) When starting the program for the first time, the dialogue below might appear due to the authority problem. Click "Yes", or "Confirm".



- (3) When starting the program for the first time, the dialogue might appear with a message that blocks some features in the firewall for security purposes. Click "Allow access" button to acquire the authority.



- (4) Run the program and the window will appear as shown below.



Warning

If the connection between the BT-Link Next and the veterinary multiparameter monitor is lost, it is handled in accordance with the hospital's network management policy. If it is not resolved, contact your administrator to resolve the problem.

If the program fails to run due to a license error, verify that the USB Lock Key is properly installed and recognized.

If you re-run the BT-Link Next due to a PC error or power failure, check the system settings for this device.

In the event of a system failure, patient data may be lost. According to hospital policy, patient information must be sent to the hospital server or must be backed up.

Always check that the alarm settings are appropriate for each patient before starting monitoring. Alarm values should be set appropriately according to changes in patient status.

The alarm setting value should not use extreme limit values that prevent the alarm from operating correctly.

Note

BT-Link Next can be connected to veterinary multiparameter monitors via LAN or WI-FI.

Make a setting for BT-Link Next and veterinary multiparameter monitors by referring to the manual. If the preference is properly set, the connection will be automatically made, and Client Window will be formed.

When BT-Link Next and a veterinary multiparameter monitor are connected, you can monitor the patient data in real time. When you want to save data, set the patient information and you should admit it.

The user cannot arbitrarily change the arrangement or view order of the displayed parameters.


Even if the alarm sound is enabled, the sound may not come out if the PC status is set to silent. Pay attention to your PC settings.

Depending on the screen view mode, the client window can be resized, waveforms and measurements hidden, and can be viewed through clicks.

Before starting the output, make sure that the printer is on and that it is functioning properly with paper and toner.

Printer settings are not handled separately. For printer operation and printer errors, contact the accompanying documentation or system administrator.

2.3.2. Close BT-Link Next

- (1) To exit the program BT-Link Next, click the "Exit" button () at the top right of the screen.
- (2) When the dialogue for closing the program appears, click "Yes(Y)" button.
- (3) Program is then closed.

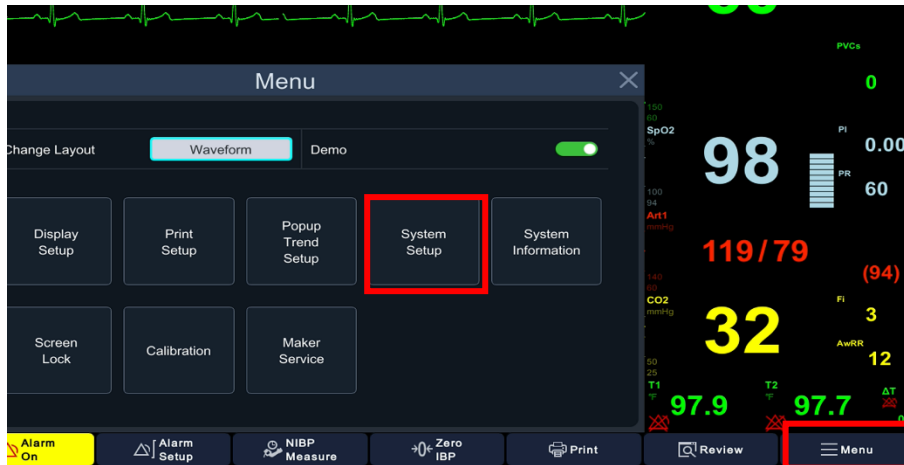
Caution

Before closing the BT-Link Next program, it is recommended that you should close the data of real-time measurement for the patient. Data being measured might be deleted.

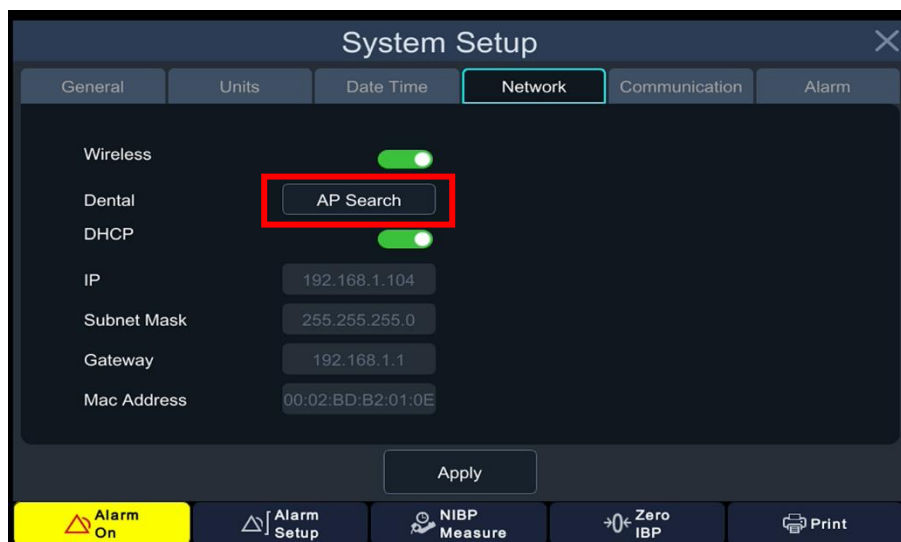
2.4. How to connect

2.4.1. Brio System Setup

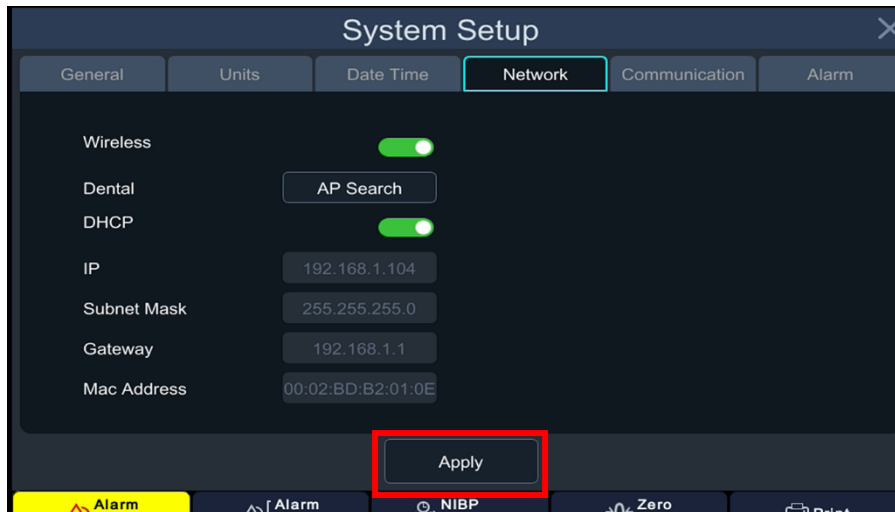
- (1) Click "Menu" button on the Brio XVET unit.
- (2) Click "System Setup".



- (3) Click "Network" tab.
- (4) Click "AP Search" if you are using Wireless LAN to connect.



(5) Choose the identical network that the laptop is connected to. Ensure both the laptop and Brio unit are on the same network. Select the network, press "Connect", input the password, and enable DHCP for automatic IP addressing. Click "Apply" and then "Close" when the Windows prompt appears.



(5) Click Communication tab -> Turn BT-Link Next slider "on" and input your laptop's IPv4 address. Click "X" to close the System setup.

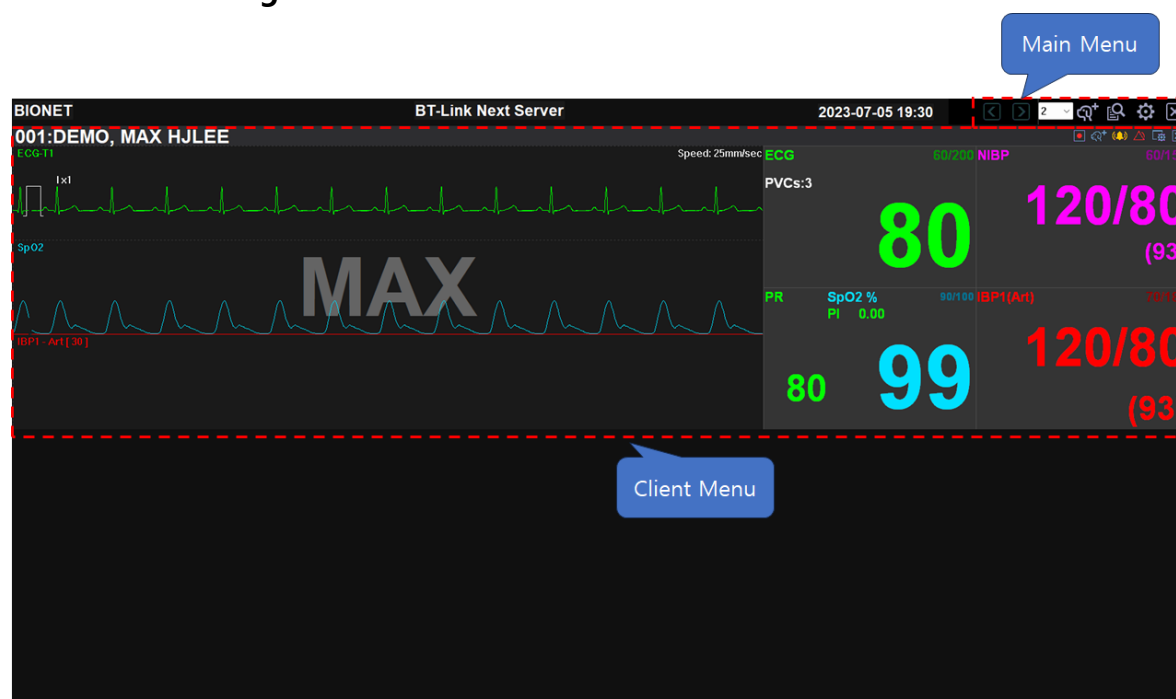


(6) Go to the computer and launch "BT-Link Next Server". Allow or run if Windows ask you for permission. Note: Defender or Firewall needs access to BT-Link Server software so please give permission or just simply turn off the Defender or Firewall.

3. Basic Functions of the Program

3.1. BT-Link Next Structure

3.1.1. Basic Design of BT-Link Next



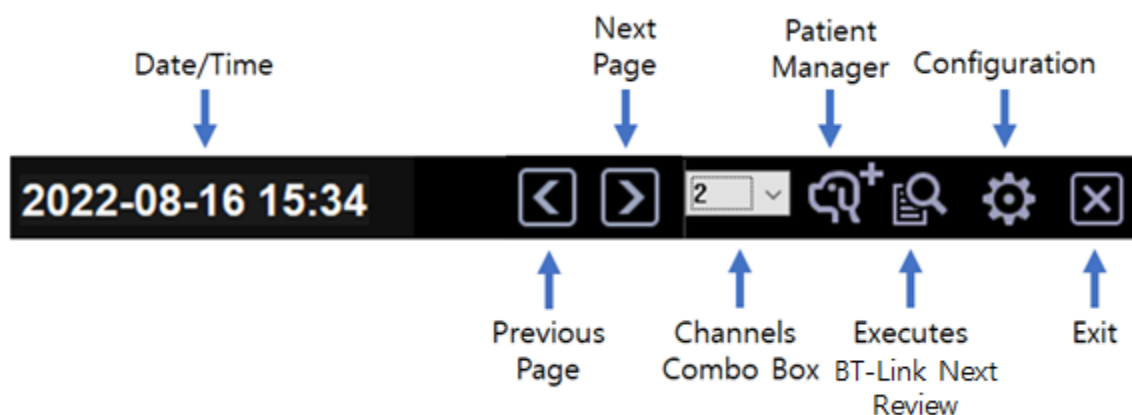
3.1.2. Main Menu

The main menu consists of Patient Manager, User Manager, Channel Display for connected clients, Client Window Setting, and Run "Review Program".

3.1.3. Client Window

The client window automatically opens when the veterinary multiparameter monitor is connected to BT-Link Next. One client window displays one veterinary multiparameter monitor. You can check the monitor's parameter and waveform in real time, remotely control the monitor settings, and print the information in real time. Client Window is displayed by dividing the area into 2Ch ~ 32Ch (2Ch, 4Ch, 6Ch, 8Ch, 10Ch, 12Ch, 16Ch, 32Ch) screens according to the number of connected devices.

3.2. Main Menu



3.2.1. Previous / Next Page

Provides the function to move to the next/previous screen when multiple devices are connected and exceed the display capacity of the monitor. (The button will be disabled when further navigation is not possible.)

3.2.2. 2 ~ 32 Channels

To select number of clients (veterinary multiparameter monitor) on screen.

3.2.3. Patient Manager

To register "patient information".

3.2.4. Configuration

To set up the environment of system.

3.2.5. Executes BT-Link Next Review

To call up and open the saved file regarding patient information.

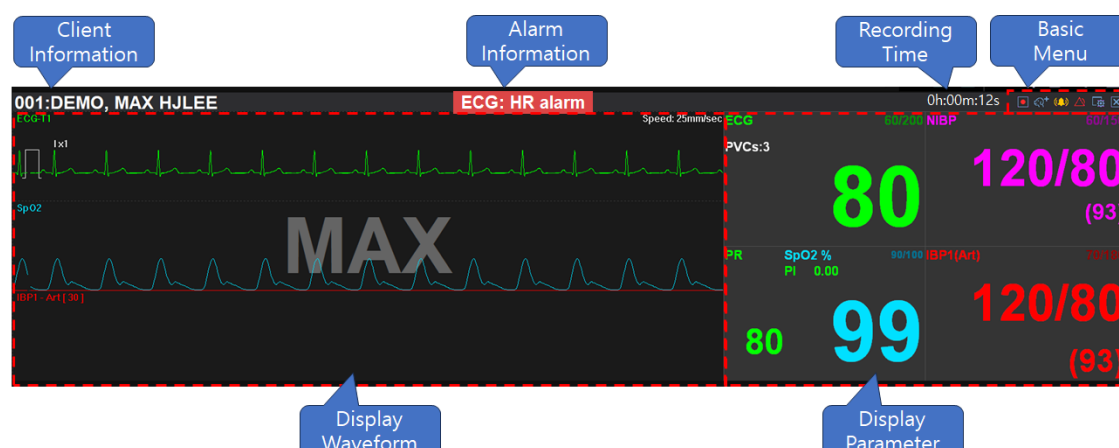
3.2.6. Exit

To quit the program.

3.2.7. Date/Time

To show the present date/time.

3.3. Client Window




3.3.1. Client Information

To show patient information from client (veterinary multiparameter monitor).
(Message format: "Bed number: Unit name, Patient name")

3.3.2. Alarm Alert

When an alarm occurs, it is expressed in four ways depending on the setting.

- Display
Alarm Information is displayed on the top bar of the Client Window, and it is classified by color as shown below, and the corresponding numerical value blinks on the screen.

ECG: HR alarm	ECG: HR alarm	ECG : Cable Off
(High)	(Medium / Low)	(Technical)
- Sound
A sound alarm is generated through the speaker when an alarm occurs, regardless of the alarm level, when the setting of the set client is activated ().
If it is not activated in the configuration settings, no sound is heard.
(Setting -> General1 -> Alarm -> Enable alarm sound)

3.3.3. Recording Time

To show how long the patient information is being saved.

3.3.4. Basic Menu

Displays the menu of the Client Window. The characteristics of each icon are as follows.



: To Admit/Discharge patient information from each veterinary multiparameter monitor.



: Recording function is not being used. Click this button, Recording will start.
(However, the recording icon is shown only when a patient is admitted.)



: Recording function is being used.
(Click this button to stop recording.)



: Alarm sound is "ON". Click this button and the alarm sound function will be deactivated.



: Alarm sound is "OFF". Click this button and the alarm sound function will be activated.



: Indicates that the alarm of the veterinary multiparameter monitoring device is currently activated.

Click to disable the alarm sound or alarm.



: Indicates that the alarm sound of the veterinary multiparameter monitor is currently disabled.

Click to activate the alarm.

(Setting->General1->Alarm Mode-> Audio Paused)



: Indicates that the alarm of the veterinary multiparameter monitor is currently disabled.

Click to activate the alarm.

(Setting->General1->Alarm Mode-> Alarm Paused)



: To set up the client environment.



: To close the client window.

(If the connection with the veterinary multiparameter monitor is lost, it is displayed.)

3.3.5. Display Waveform

Displays the waveform received from the veterinary multiparameter monitor.

(For 4ch or higher, you can view the corresponding waveform by double-clicking the parameter with the mouse.)

3.3.6. Display Parameter

Displays parameters received from the veterinary multiparameter monitor.

(When an alarm occurs, the corresponding parameter blinks in red)

3.3.7. Time & Patient status



: Displays spindle information and time.

The time information is retrieved and conveyed from the time settings configured on the spindle monitoring device.

(The time information is automatically synchronized and will not be displayed if the time function is not activated on the bed.)

4. Execute and Close BT-Link Next Review

4.1. Execute BT-Link Next Review


4.1.1. Use of BT-Link Next Review

BT-Link Next Review is the program for the review and analysis of patient's data measured through BT-Link Next. BT-Link Next Review provides methods for analyzing the data stored in BT-Link Next in various ways for a maximum of 10 days. Also, it provides the function of printing the analyzed data according to various options.

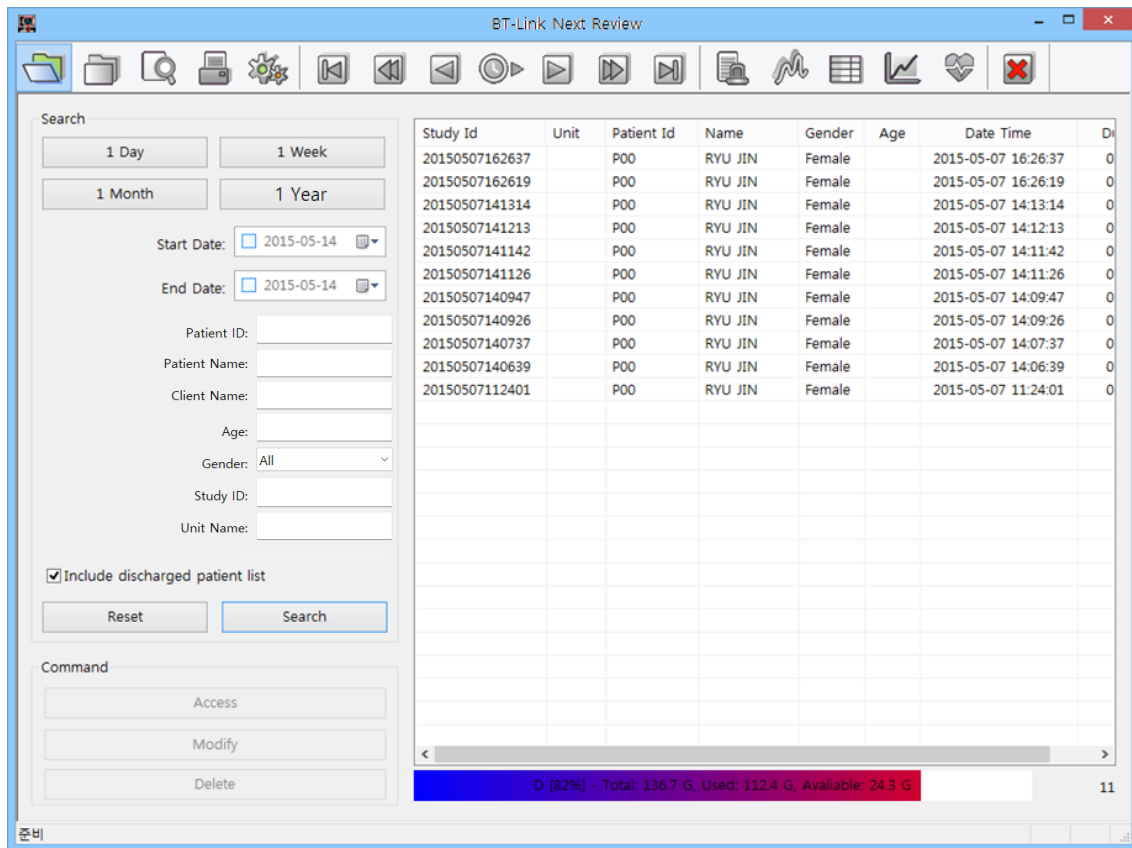
4.1.2. Execute BT-Link Next Review

BT-Link Next Review can be executed in two ways. First is to double-click the image con on Desktop.



The second method is to run by clicking the "BT-Link Next Review" icon () in the Main Menu of BT-Link Next.

Once the program is executed, the window below appears.



4.2. Close BT-Link Next Review

4.2.1. Close BT-Link Next Review

To close BT-Link Next Review program, click "Exit" icon marked on the image below, and the program will be closed.

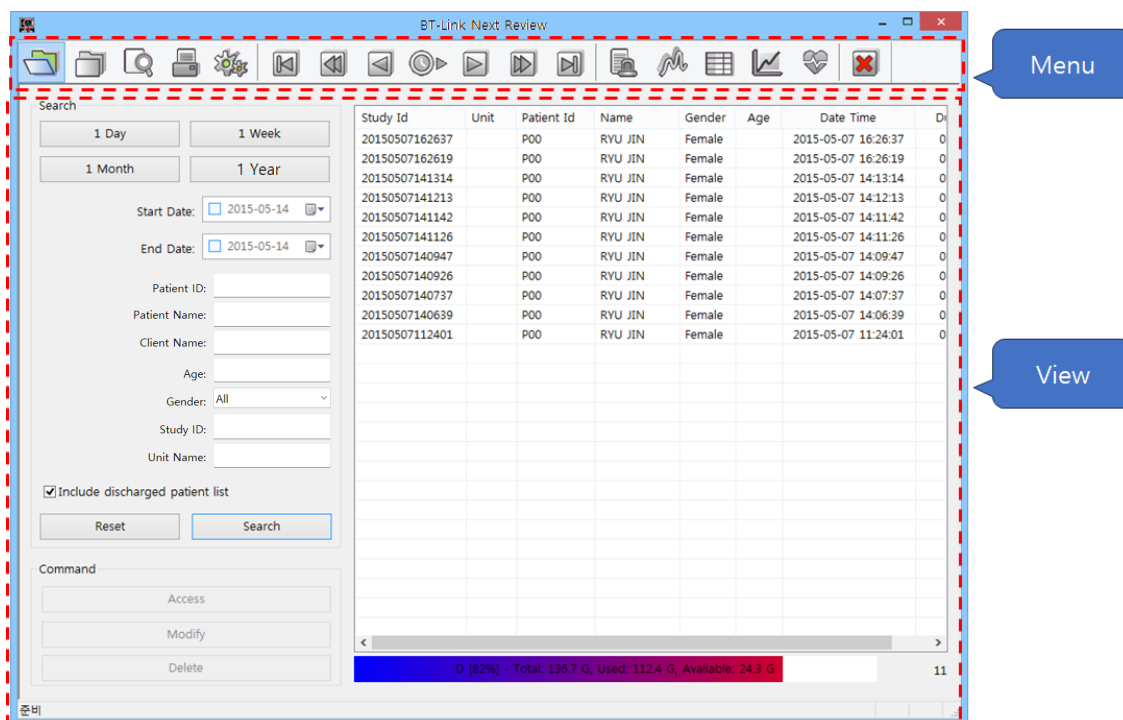


5. BT-Link Next Review Program Structure

5.1. BT-Link Next Review Program Structure

5.1.1. Review Structure

BT-Link Next Review consists of 2 main parts, as indicated in the image below.



6.1.2. Menu

Menu is a major menu in BT-Link Next Review, and it provides various functions such as file open/close, print preview, print, navigator, select view, preference, and program closing.

6.1.3. View

The view area is composed of 6 types.

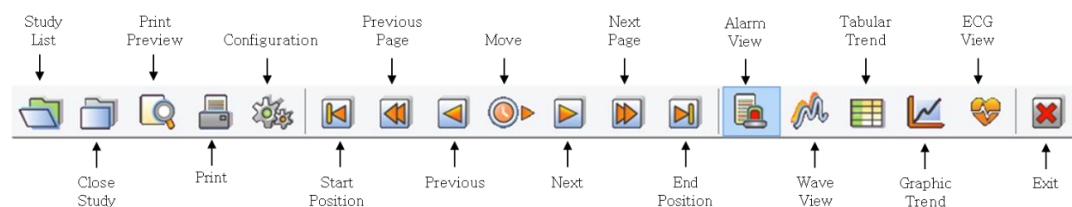
(Study Search, Alarm, Wave, Tabular Trend, Graphic Trend, and ECG View).

6. How to use BT-Link Next Review Menu

6.1. BT-Link Next Review Menu

6.1.1. BT-Link Next Review Menu

Main Menu is a major menu in BT-Link Next Review, and it provides various functions such as file open/close, print, print preview, navigator, select view, preference, and program closing.



6.1.2. Study List

To call up the save list from DB.

6.1.3. Close Study

To close the called-up-files.

6.1.4. Print Preview

To check out the layout before printing out.

6.1.5. Print

To print out the files.

6.1.6. Configuration

To set up the environment of Reviewer.

6.1.7. Start/End Position, Previous/Next Page, Previous/Next, Move

To shift the present record data to back and forth.

6.1.8. EMR Report

To track alarm, graphs and parameters when alarm sounds happens.

6.1.9. Wave View

To track graphs and parameters.

6.1.10. Tabular Trend

To track parameters and alarms on the tabular trend.

6.1.11. Graphic Trend

To track the trend of parameters as graphs

6.1.12. ECG View

To track ECG waveform, and HR Trend.

6.1.13. Exit

Quit reviewer.

7. Q & A

1) In case that connection of BT-Link Next is unstable or, failed,

- Check the IP address and related function activation status.
- Check the version of the veterinary multiparameter monitoring device and PC S/W
- Check out "Firewall or Anti-virus software".

2) In case that error message about short memory space,

- Check if the save data space is insufficient.
(Date backup or remove some files with "Reviewer" Or, set up the automatic data deletion.)

3) In case that recording button disappears,

- Check out whether the present client is the state of "Admit" or not.
(In the case of Discharge, proceed with the Admit process.)

4) When the program is executed, a message saying that the program is blocked appears or there is no response.

- Turn off firewall and anti-virus programs and register exclusion programs.

Example 1) Location - C:\Users\Bionet\AppData\Roaming\BIONET\BMCentral
Executable files to be registered - BMCentralLogin.exe, BMCentral.exe, BMReview.exe

Example 2) Location - C:\Users\Bionet\AppData\Roaming\BIONET\BMCentral Client
Executable files to be registered - BMCentral.exe, BMReview.exe

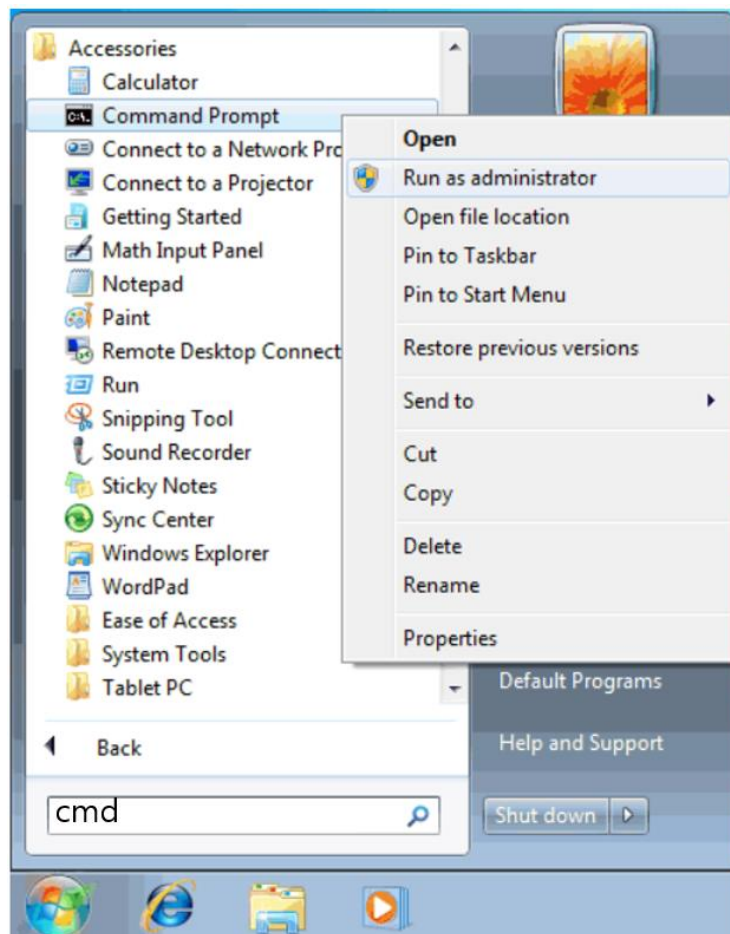
5) When running the program, BT-Link Next is visible in the task manager, but it closes after a while or runs repeatedly.

- Execute BMReview.exe and check if "0xc00007b" error occurs.
- If "0xc00007b" error occurs, delete vc_redist.x64.exe and vc_redist.x86.exe and reinstall them.
- If that doesn't work, reboot and keep the Windows update status up to date.

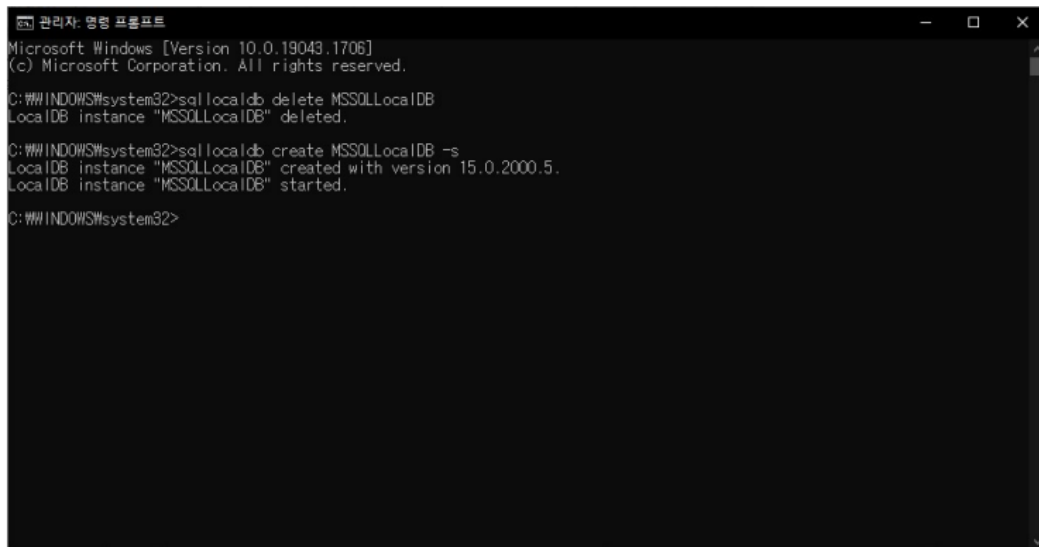
6) If the program runs, but ends after a while or does nothing.

- It is a DB error and reset as follows.

1. Type "cmd" in Windows Finder and right-click to run as administrator.



2. In the terminal window, type the following command.
sqllocaldb delete MSSQLLocalDB
sqllocaldb create MSSQLLocalDB -s



```
관리자: 명령 프롬프트
Microsoft Windows [Version 10.0.19043.1706]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>sqllocaldb delete MSSQLLocalDB
LocalDB instance "MSSQLLocalDB" deleted.

C:\WINDOWS\system32>sqllocaldb create MSSQLLocalDB -s
LocalDB instance "MSSQLLocalDB" created with version 15.0.2000.5.
LocalDB instance "MSSQLLocalDB" started.

C:\WINDOWS\system32>
```

7) When a special character (Δ) is broken during program execution

- Control Panel/Clock and Country/Country or Region/Administrator Options (tab)/Change System Locale/Uncheck Use Unicode UTF-8 for World Language Support.

8) When the Client View screen changes or alternates with different bed information

- Please avoid duplicating bed numbers. If the same bed number is assigned to the equipment, it may be displayed repeatedly.
- This problem occurs when network instability or IP conflicts occur.
(Check the network environment and use a fixed IP allocation.)

9) Data transmission to external server (HL7) is not transmitted or is interrupted.

- This may occur frequently in a wireless environment and may occur when the network is unstable or when IPs are duplicated.
(Check the wireless AP and use it by assigning a fixed IP.)

Chapter 3. BT-Link Next Mobile App

8. BT-Link Next Mobile App for iOS/Android

8.1. BT-Link Next Mobile



BT-Link Next Mobile is a smartphone application that allows you to monitor one of the multiple Bionet patient monitors directly from an iOS smartphone or tablet on the same network. It enables you to receive alarms from the selected Bionet veterinary monitors, including the Brio XVET Series, BM VET Elite Series, and BM VET Pro Series. The app receives all numeric parameters and waveforms while capturing the patient's numeric data and waveforms as images. Additionally, the app can record and save numeric data to a PDF file.

CAUTION

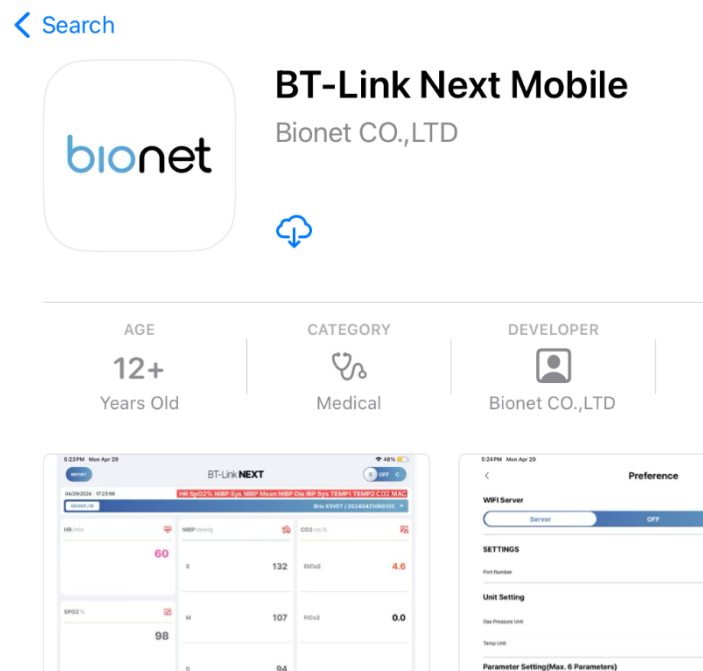
BT-Link Next Mobile for iOS does not function in background mode.

8.1.1. BT-Link Next Mobile iOS Installation.

BT-Link Next Mobile can be installed from the Apple App Store.

Please follow the procedure below:

1. In the App Store, type "bt link next" in the search window.
2. Select Bionet BT-Link Next Mobile and install the app.



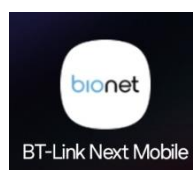
8.1.2. Starting the BT-Link Next iOS Mobile App.

1. Connect your phone or tablet to the same Wi-Fi network as the Bionet patient monitor or BT-Link Next.

CAUTION

BT-Link Next Mobile only works when the phone or tablet is connected to a Wi-Fi network.

2. Touch the BT-Link Next Mobile icon on your phone or tablet screen.

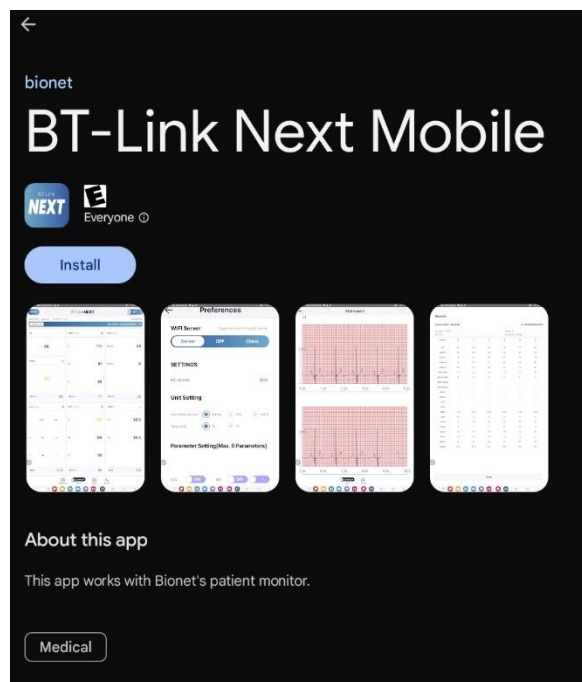


8.1.3. BT-Link Next Mobile Android Installation.

BT-Link Next Mobile can be installed from the Google Play Store.

Please follow the procedure below:

1. In the Google Play store, type "bt link next" in the search window.
2. Select Bionet BT-Link Next Mobile and install the app.



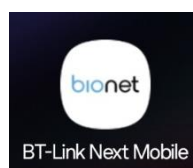
8.1.4. Starting the BT-Link Next Android Mobile App.

1. Connect your phone or tablet to the same Wi-Fi network as the Bionet patient monitor or BT-Link Next.

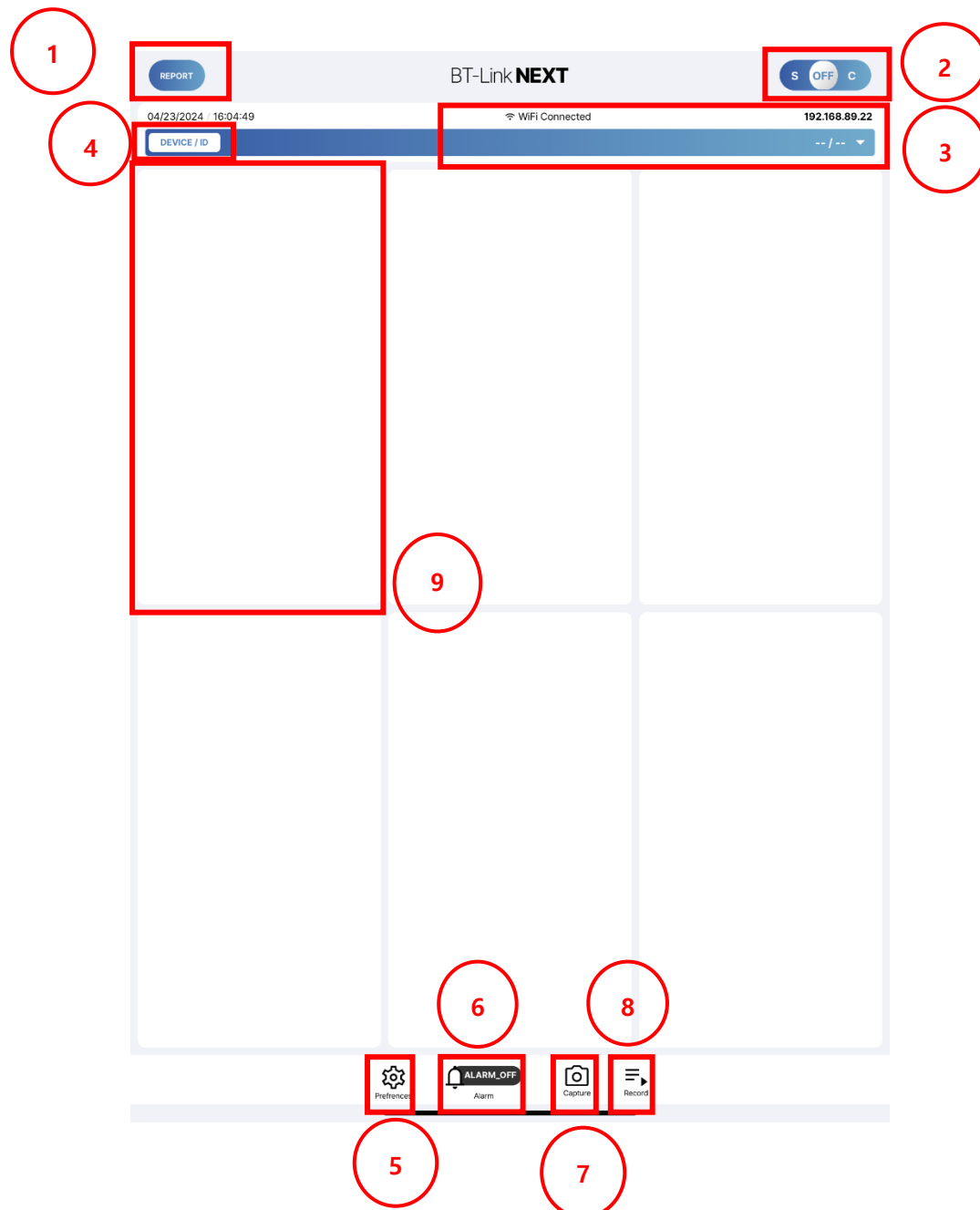
CAUTION

BT-Link Next Mobile only works when the phone or tablet is connected to a Wi-Fi network.

2. Touch the BT-Link Next Mobile icon on your phone or tablet screen.



8.2. Function Keys



1. REPORT: Switch to PDF report list window.
2. Mode:
 - Server Mode (S): Receiving patient data directly from Bionet monitors through the network.
 - Client Mode (C): Receiving patient data from the BT-Link Next software through the network.

3. Message Window: Display the phone's IP address, tablet's IP address, or the alarm message received from the patient monitor.
4. ID: Display the patient ID or a list of connected monitors when touched.
5. Setting: Switch to Preferences window.
6. Alarm On/Pause/Off switch.
7. Screen Capture.
8. Start Recording: Start parameter recording.
9. Numeric Parameter Window: Display numeric value or switch to Waveform mode if the window is touched.

8.3. Setting Preferences

The screenshot shows the 'Preference' settings window. It has a title bar with a back arrow (1) and the title 'Preference'. The main content is divided into several sections:

- WIFI Server**: A toggle switch (2) with 'Server', 'OFF', and 'Client' positions. A note says 'Toggle the state of the WIFI server'.
- SETTINGS**: A section containing a 'Port Number' field with the value '4100' (3).
- Unit Setting**: A section for selecting units. 'Gas Pressure Unit' has radio buttons for 'mmHg' (selected), 'kPa', and 'vol.%'. 'Temp Unit' has radio buttons for '°C' and '°F' (selected) (4).
- Parameter Setting(Max. 6 Parameters)**: A section with two columns of toggle switches (5):
 - ECG: ON
 - SpO2: ON
 - NIBP: ON
 - TEMP: ON
 - IBP: ON, 1
 - RESP: ON
 - EtCO2: OFF
 - gas: OFF

1. Switch to the parameter window.
2. WIFI Server: Mode Switch / S - Server Mode, C - Client Mode.
3. SETTINGS: The port number can be checked.
4. Unit Setting: Unit Selection for Gas pressure and Temp.
5. Parameter Setting: Parameter Window Setup.

* Users can select a maximum of six parameters.

* Resp, EtCo2, and A.gas work exclusively.

Ex) If user selects EtCo2, Resp and A.gas parameters are turned off automatically.

6

IP Setting

Phone IP 192.168.89.22

7

Recording Setup

Recording interval ☒ 1min ☐ 5min

☒ Preventing screen turns off during recording

Recording Para. Optional Setup

ECG	<input checked="" type="checkbox"/> St recording	<input checked="" type="checkbox"/> PVC recording
SPO2	<input checked="" type="checkbox"/> SPO2-R recording	
NIBP	<input checked="" type="checkbox"/> NIBP-R recording	
IBP	<input checked="" type="checkbox"/> IBP-R recording	
TEMP	<input checked="" type="checkbox"/> Temp2 recording	

8

Hospital name

6. IP Setting: The IP address of the phone or tablet.

7. Recording Setup: Recording settings.

- Recording interval: 1 minute or 5 minutes.
- Record selected parameters.

8. Hospital name

CAUTION

The alarm level setting in the app does not affect the patient monitor setting. The alarm level setting on the app is independent from the patient monitor's alarm level setting.

오후 4:07 4월 23일 화요일

100%

<

Preference

Alarm Tone Setting

LOW	<input checked="" type="checkbox"/> SOUND <input checked="" type="checkbox"/> VIBRATION
MEDIUM	<input checked="" type="checkbox"/> SOUND <input checked="" type="checkbox"/> VIBRATION
HIGH	<input checked="" type="checkbox"/> SOUND <input checked="" type="checkbox"/> VIBRATION
HR	HIGH ▾
SPO2	HIGH ▾
RESP	HIGH ▾
RESP-A	HIGH ▾
NIBP	HIGH ▾
TEMP	HIGH ▾
IBP	HIGH ▾
EtCO2	HIGH ▾
Arrhythmia	HIGH ▾
Lead Fault	HIGH ▾
Cable Off	HIGH ▾
Check Probe	HIGH ▾
Lost Pulse	HIGH ▾
Poor Signal	HIGH ▾
Artifact	HIGH ▾

Extra

Bionet Support

9. Alarm Tone Setting: This setting defines how the app notifies each alarm level to the user (High, Medium, Low).
 - Sound Tone Option: Users can set different sounding tones for each alarm level.
 - Vibration Option: Users can activate the vibration for each alarm level.
 - Low. The alarm repeats every 55 sec if there is an alarm from the patient monitor.
 - Medium: The alarm repeats every 20 sec if there is an alarm from the patient monitor.
 - High: The alarm repeats every 6 sec if there is an alarm from the patient monitor.
 - Setting alarm notification levels for each parameter.

8.4. Connection

8.4.1. Server Mode

The app receives patient data from the patient monitor on the same network.

In this mode, the patient monitor sends data to the app directly through the network.

1. Check the phone or tablet's IP address as follows. Go to the parameter window. The phone or tablet's IP address will be displayed in the message window. The user can also check the phone or tablet's IP address from the app's setting (Preference) window.

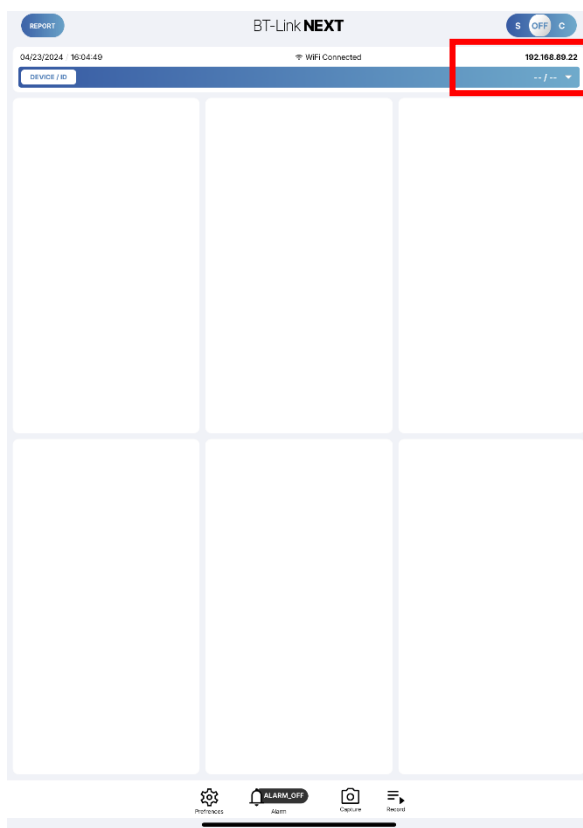


Figure 3.1

The phone or tablet's IP address is displayed in the parameter window

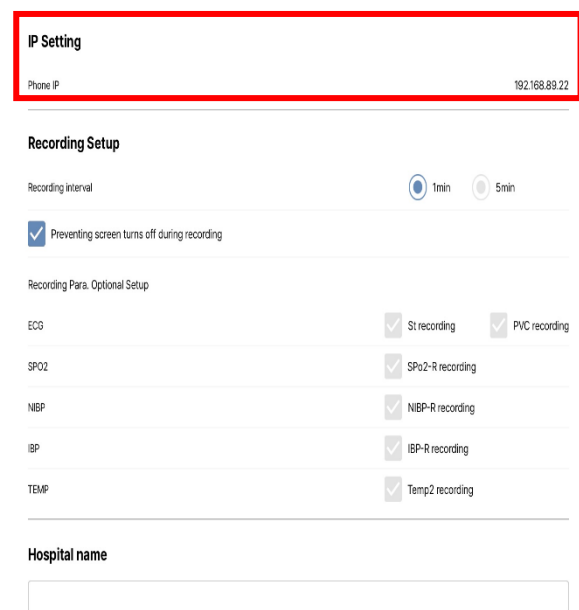
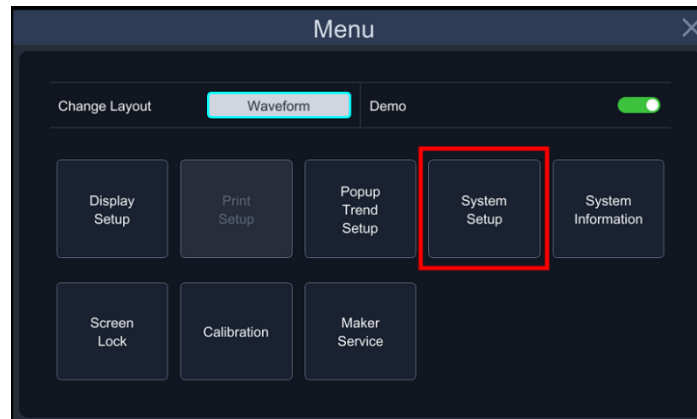


Figure 3.1

The phone or tablet's IP address is displayed in the parameter window

2. Set the IP address of your phone or tablet on the patient monitor by following the steps outlined below.

- 1) From the Brio XVET screen, select Menu/System Setup.



- 2) In System Setup, select the Communication tab.



- 3) Activate BT-Link Next Mobile and enter the IP address of your phone or tablet in the BT-Link Next Mobile IP field.



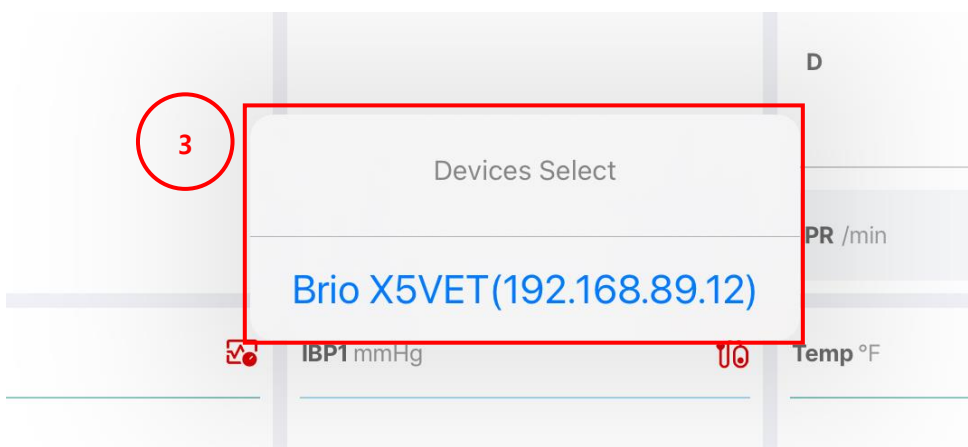
NOTE

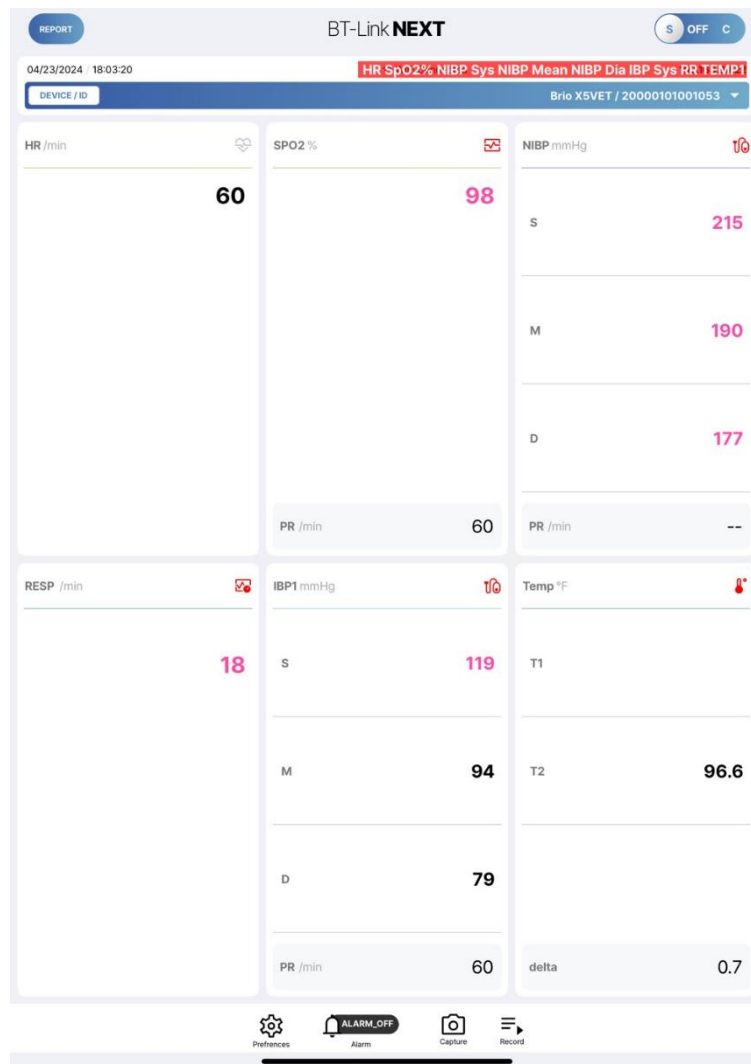
When the app is set to Client Mode, the user must enter the BT-Link Next IP address.

- 4) Once the setup is complete, press the X button to exit the menu.
3. Connecting a Patient Monitor to the App.
 - 1) Turn on BT-Link Next Mobile server ① first.
Wait about 10 ~ 20sec and touch "ID" ② in the picture below.



- 2) A device list window ③ will pop up under ID.
Select a monitor in the list to connect.



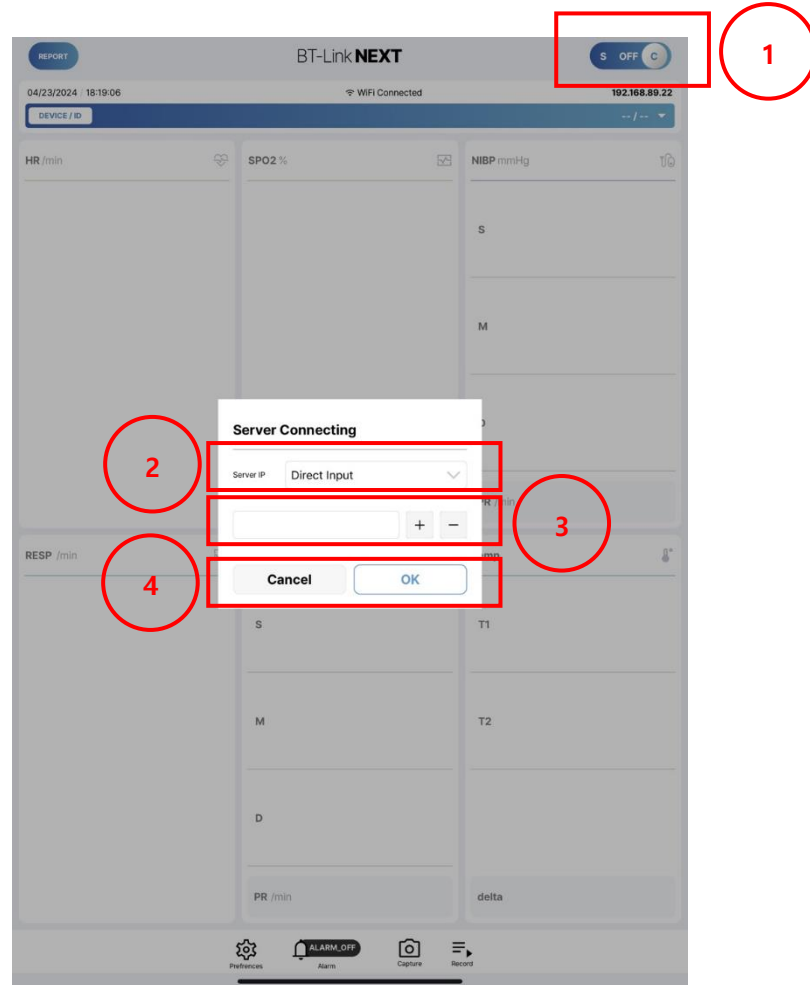


* Once the selected monitor connects to the app successfully, the Patient ID (if it was entered in the patient monitor) and parameter values will be displayed.

8.4.2. Client Mode

In Client Mode, the app receives the patient data from BT-Link Next (computer software). BT-Link Next is computer software which receives patient data from the connected patient monitors and sends the same data to BT-Link Next Mobile (if it is in Client Mode).

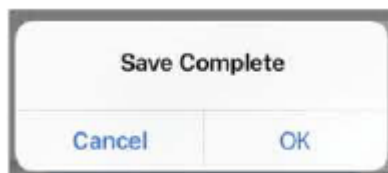
1. Connecting the App to BT-Link Next (computer software).
 - 1) Select or add a new computer's IP address where BT-Link Next is installed and connect to BT-Link Next.



- ① Turn on the Client Mode.
- ② Saved list of server Ips.
* Click the down arrow button to display the server IP list.



- ③ Add a new server to the server list.
* Enter the computer's IP address where BT-Link Next is installed.
* Click "+" to save the IP address.

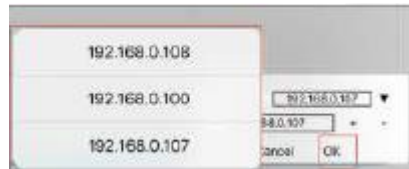


- * Click "OK" to finish the saving.

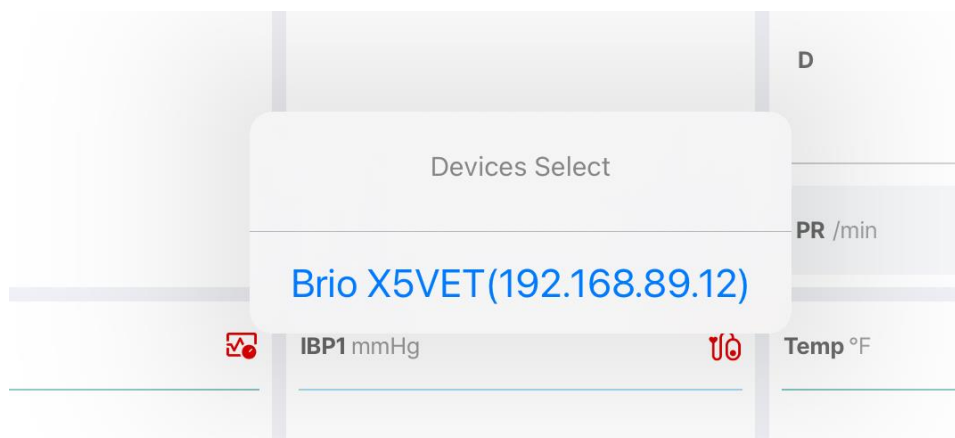
- ④ Select a server from the IP list mentioned in #2.

Select the target server IP you want to connect to, then click "OK".

* The picture below shows multiple BT-Link Next devices existing on the same network.



- 2) Connecting a Patient Monitor (After connecting to BT-Link Next).



- ① A monitor list window will pop up if the Client Mode connection is successful.
 - * This window displays the unit names of the Bionet patient monitors connected to BT-Link Next.
 - * If the monitor doesn't have a unit name, it will not be connected to BT-Link Next Mobile.
- ② Select the target monitor.