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Сочи (862)225-72-31
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Тула (4872)33-79-87
Тюмень (3452)66-21-18
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Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
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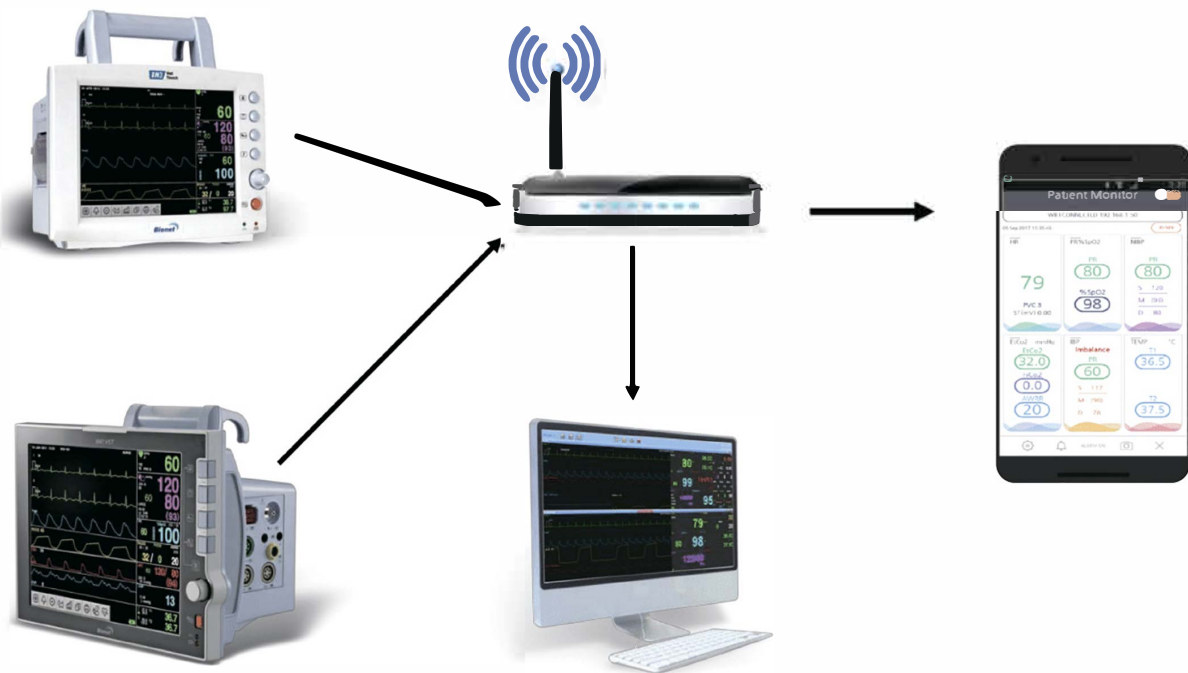
BT-Link Mobile is a smartphone application that enables you to monitor one of the multiple Bionet patient monitors connected directly to an Android smartphone or tablet in the same network and to receive alarms from the selected Bionet veterinary monitor including the BM3Vet Touch, BM7Vet, and BM7Vet Pro. The App receives all numeric parameters and waveforms while capturing the patient's numeric data and waveforms as images. In addition, the App can record and save numeric data to a PDF file.
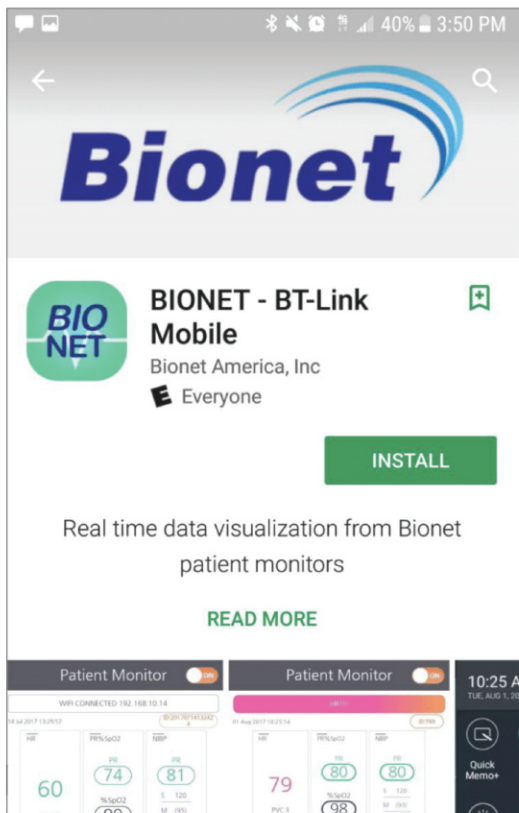
CONTENTS

01

INSTALLATION

BT-Link Mobile can be installed through the Google Play Store. Please follow the procedure below:

a In the Google Play Store, type Bionet in the search window.
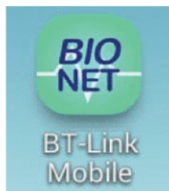
b Select Bionet BT-Link Mobile and install the App.
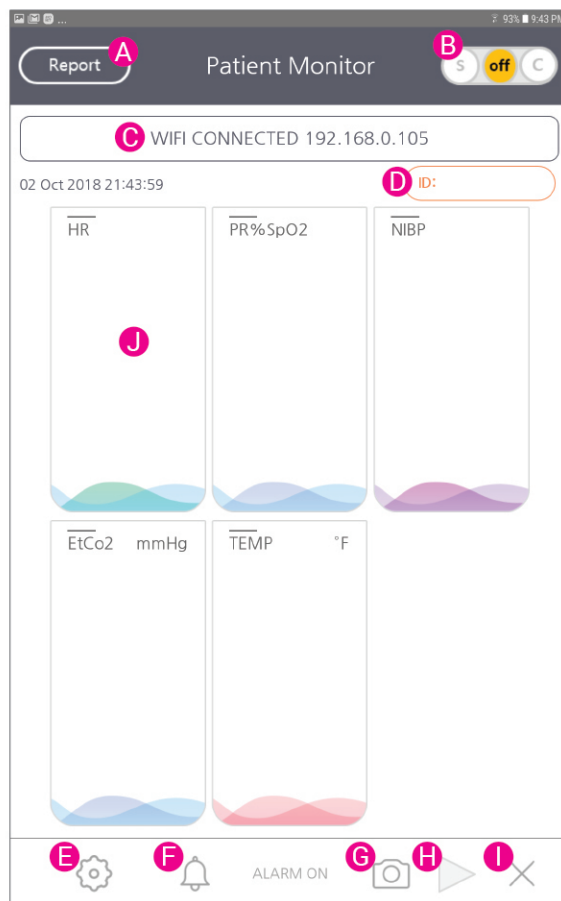
02

START THE APP.

a Connect your phone or tablet to the same WIFI network that Bionet patient monitors or BT-Link are connected to.

**Caution: BT-Link Mobile only works when the phone or tablet is connected to a WIFI network.

b Touch BT-Link Mobile icon on your phone or tablet screen.

03

FUNCTION KEYS

A REPORT: Switch to PDF report list window.

B Mode:
* Server mode (S): Receiving patient data from Bionet monitors directly through the network.
* Client mode (C): Receiving patient data from BT-Link software through the network.

C Message Window: Display phone's IP or tablet's IP address or display the alarm message received from patient monitor.

D ID: Display the patient ID or Display a list of connected monitors if it is touched.

E Setting: Switch to Preferences window.

F Alarm On/Pause/Off switch.

G Screen Capture.
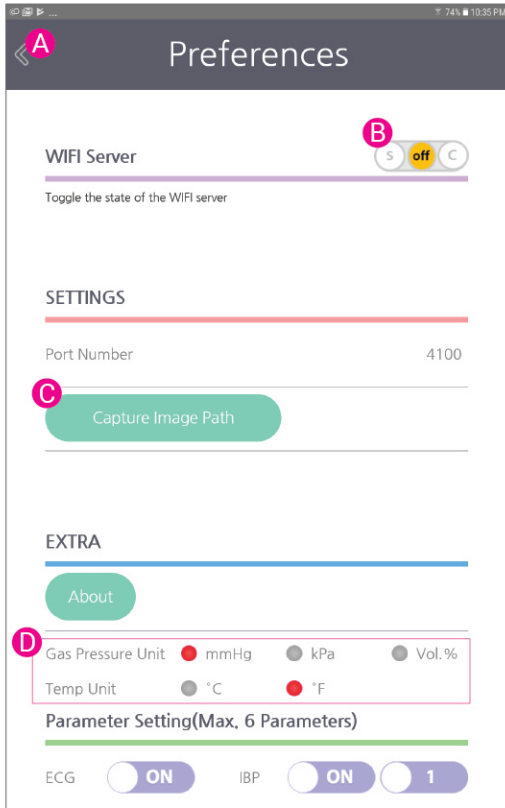
H Start Recording: Start parameter recording.

I Exit.

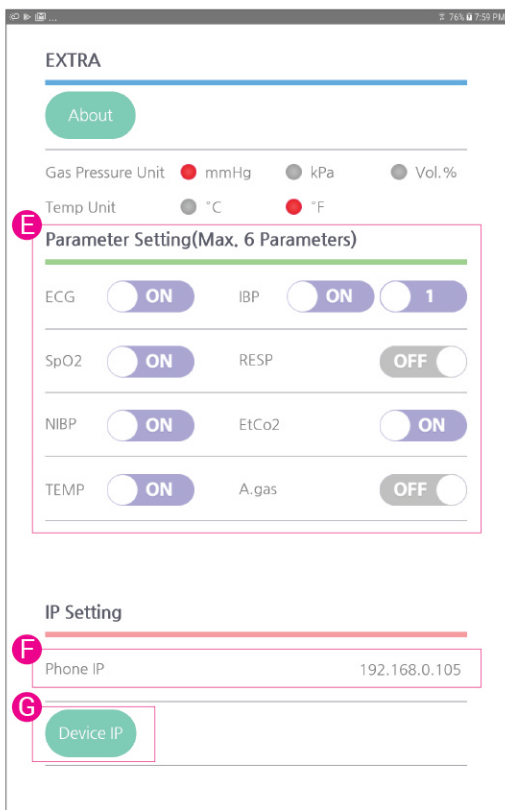**J** Numeric parameter window: Display numeric value or switch to Waveform mode if the window is touched.

Ⓐ Switch to the parameter window.

Ⓑ Mode Switch: S- Server mode, C - Client Mode.

Ⓒ Shows captured images path.

Ⓓ Unit selection for pressure and temperature.


Ⓔ Parameter window setup.

* User 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.

Ⓕ Phone or tablet's IP address.

Ⓖ Display / Connect to the patient monitors.
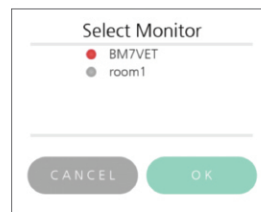
* The list shows either a unit name (if the monitor has a unit name) or the monitor's IP address.
* Select a monitor which user wants to connect and press OK.
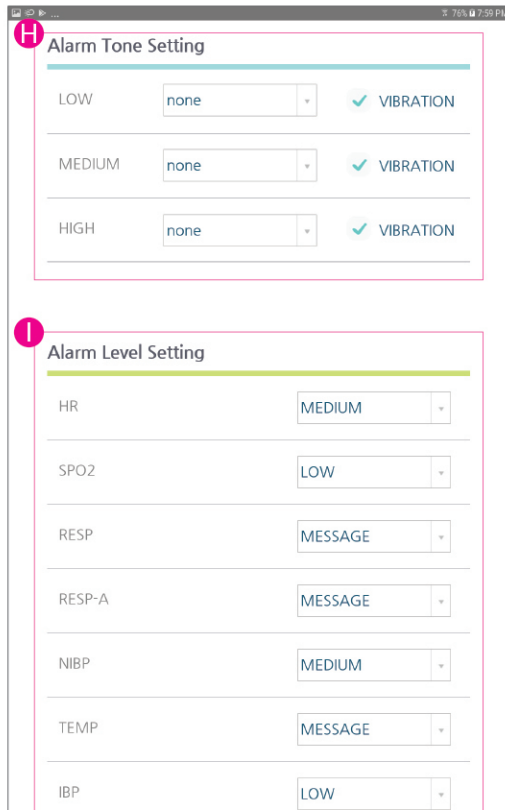
H This setting defines how the App notifies each alarm level to the user (High, Medium, Low).

* Sound tone option: User can set different sounding tones to each alarm level.
* Vibration option: User can activate the vibration of each alarm level.
* Low: Alarm repeats every 55 sec if there is an alarm from the patient monitor.
* Medium: Alarm repeats every 20 sec if there is an alarm from the patient monitor.
* High: Alarm repeats every 6 sec if there is an alarm from the patient monitor.

I Setting alarm notification level for each parameter.

** Caution: 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.
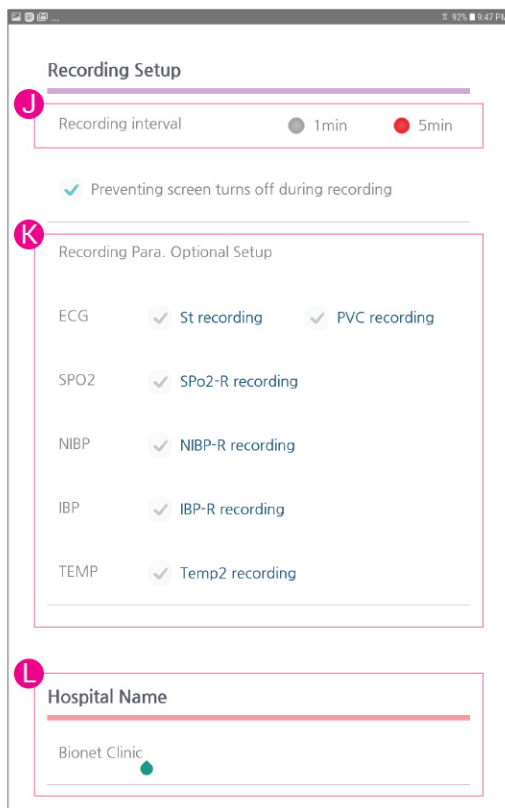
Recording Setup

J Recording Interval: 1 min or 5 min.

K Optional recording parameters.

L Hospital Name.

05

CONNECTION

5-1. Server Mode

The app receives patient data from the patient monitor in the same network. With this mode, the patient monitor sends data to the app directly through the network.

[a] 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. User can also check the phone or tablet's IP address from the App's setting (Preference) window.

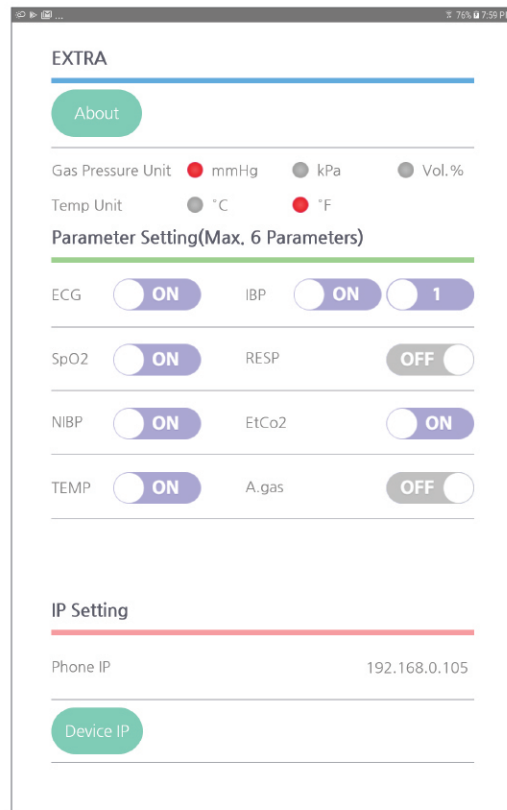**Figure 3.1**
Phone or tablet's IP address in parameter window

Figure 3.2
Phone or tablet's IP address in Preference
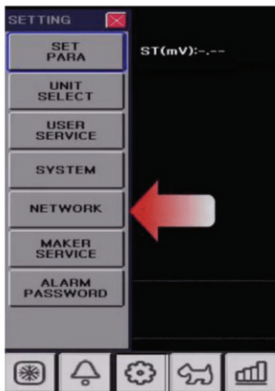
b Setup the phone or tablet's IP address to the patient monitors by following procedures:
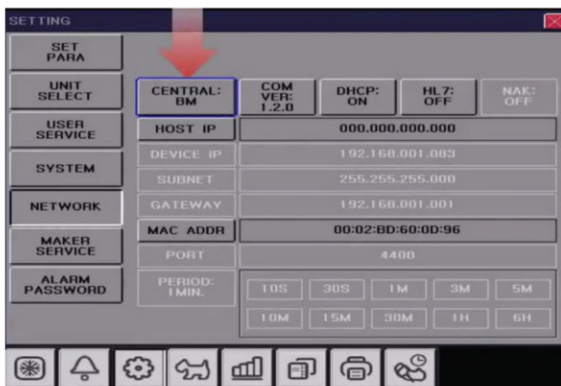
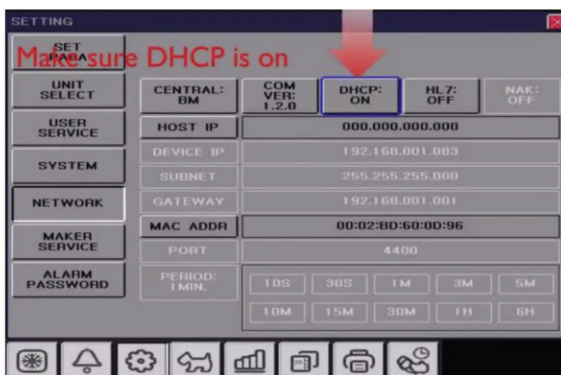b1. Touch "Setup Icon" on BM3Vet Touch, BM7Vet, or BM7Vet Pro screen.

b2. Touch "Network" button from the menu on the left of the screen.

b3. Set "CENTRAL" to "BM" or "BT".
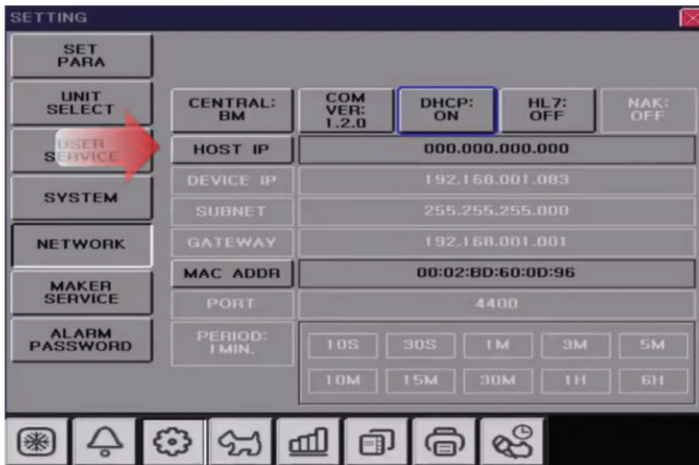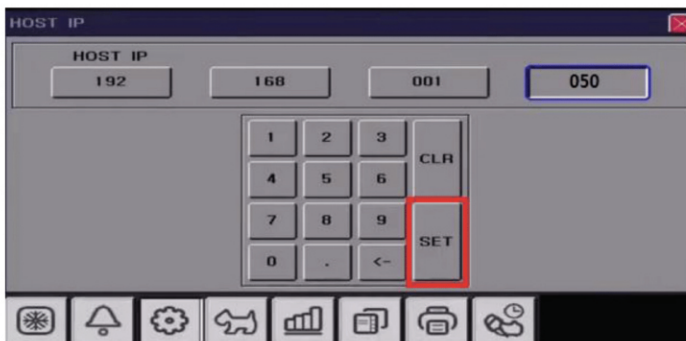

b4. Make sure "DHCP" is "ON".

b5. Enter the phone or tablet's IP address to "HOST IP"

Note: If the App is set to Client mode, user must enter BT-Link server's IP address to "HOST IP" (Refer to 5-2 Client Mode).
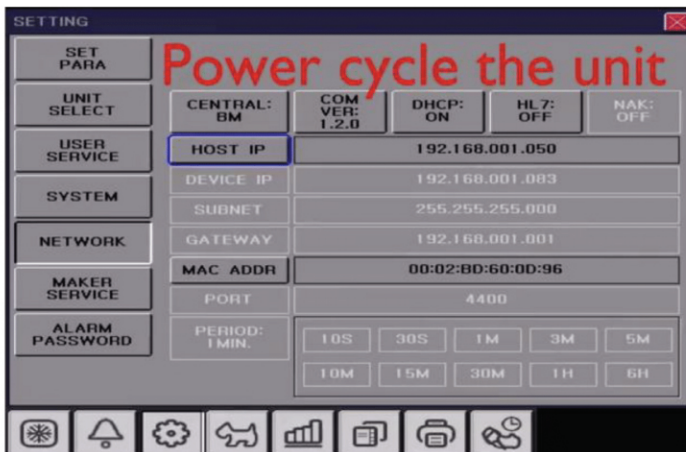

** Touch "HOST IP" button to enter IP setup screen.

** Caution: Make sure to press "SET" button once done modifying each IP section in order to save the value. (Example - Enter 192 and then press "SET", Enter 168 and then press....)

*** After finishing the IP address setup, press x on the top right of the screen to exit the screen.

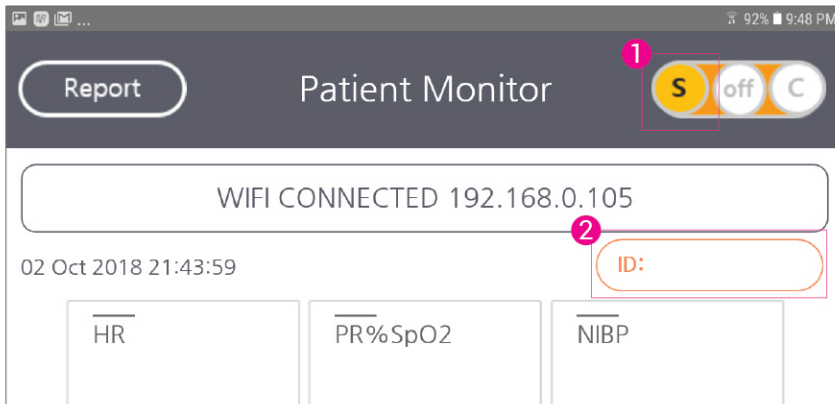b6. To Apply the changes, power cycle the unit.

[c] Connecting a patient monitor to the App.

c1. Turn on BT-Link Mobile server (1) first.
Wait about 10 ~ 20sec and touch "ID" (2) in the picture below.

c2. A device list window will pop up.
Select a monitor that the user wants to connect to and click OK.
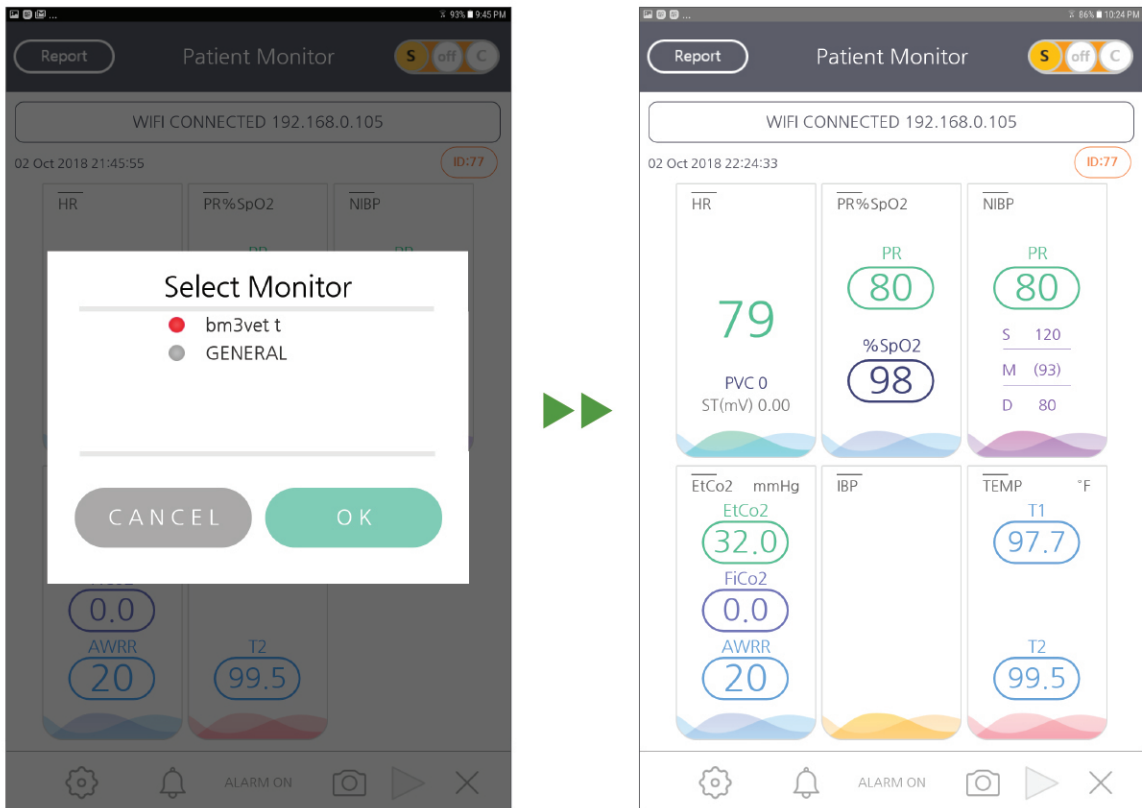
** Once the selected monitor connects to the App successfully, the Patient ID
(if it was entered in the patient monitor) and parameter values will be displayed.
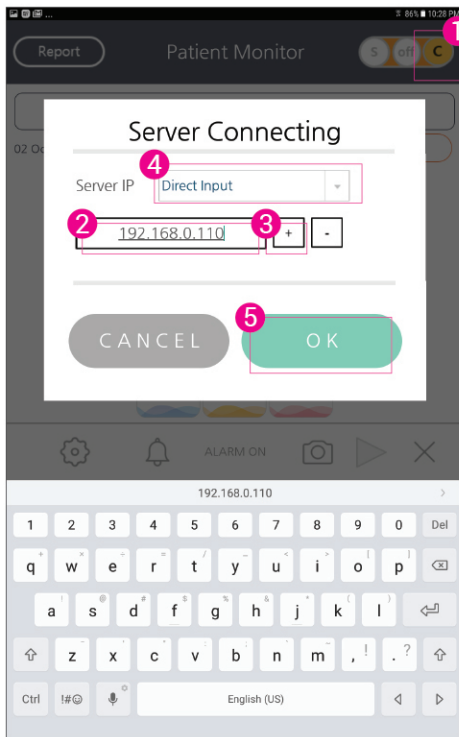
5-2. Client Mode

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

a Connecting the App to BT-Link (computer software).

a1. Adding computer's IP address where BT-Link installed and connecting to BT-Link.

❶ Turn on Client Mode.

❷ Enter computer's IP address where BT-Link is installed.

❸ Click "+" to save the entered IP address.

❹ Click "Server IP". A Server list window will pop up as the picture shown below. Select the target server's IP that you want to connect to and then click "OK".
** The picture below shows that multiple BT-Link exist in the same network.

Select Monitor
● 192.168.0.110
● 192.168.0.112
CANCEL   OK
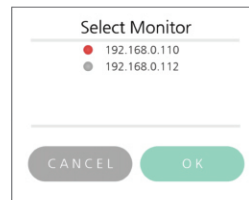
❺ Click "OK".
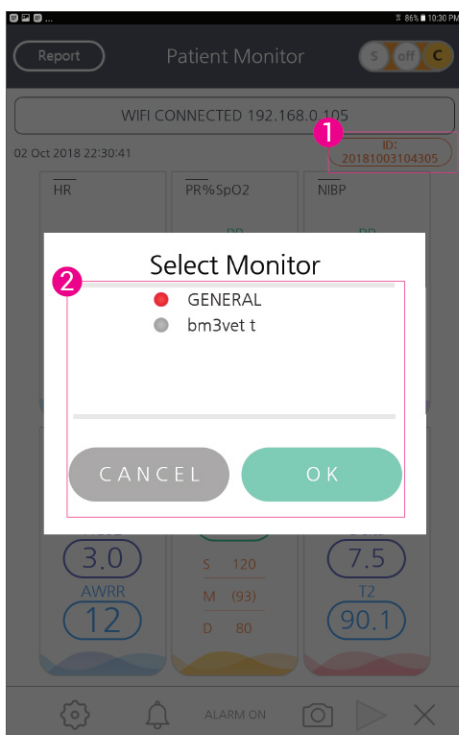
a2. Connecting a patient monitor (After connecting to BT-Link).

❶ Touch "ID". A monitor list window will pop up.
** This window displays the unit name of the Bionet patient monitors which is connected to BT-Link.
** If the monitor doesn't have a unit name, the monitor will not be connected to BT-Link Mobile.

❷ Select target monitor and press "OK".

06

PARAMETER WINDOW
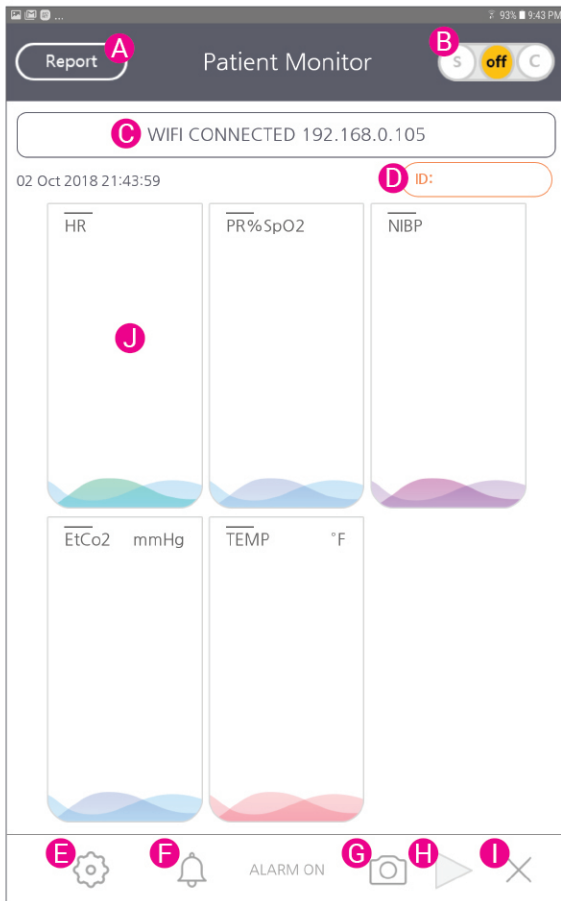
A REPORT: Switch to the PDF report window

B Mode:
* S - Server Mode: Receives patient data from a Bionet monitor directly through the network.
* C - Client Mode: Receives patient data from BT-Link software through the network.

C Message Window: Displays phone or tablet's IP address or displays an alarm message received from the patient monitor. (Ex: HR!!! - High alarm message for HR, SPo2!! - Medium alarm message of SPo2, etc.)

D Patient ID - Multifunctional
* Function1: Displays the patient ID
* Function2: Displays a list of connected monitors if it is touched.

E Setting: Switches to Preferences window.

F Alarm On/Pause/Off switch

G Screen Capture

H Recording: Start parameter recording.

Caution: Patient ID must be entered into the patient monitor in order to start recording.

I Exit

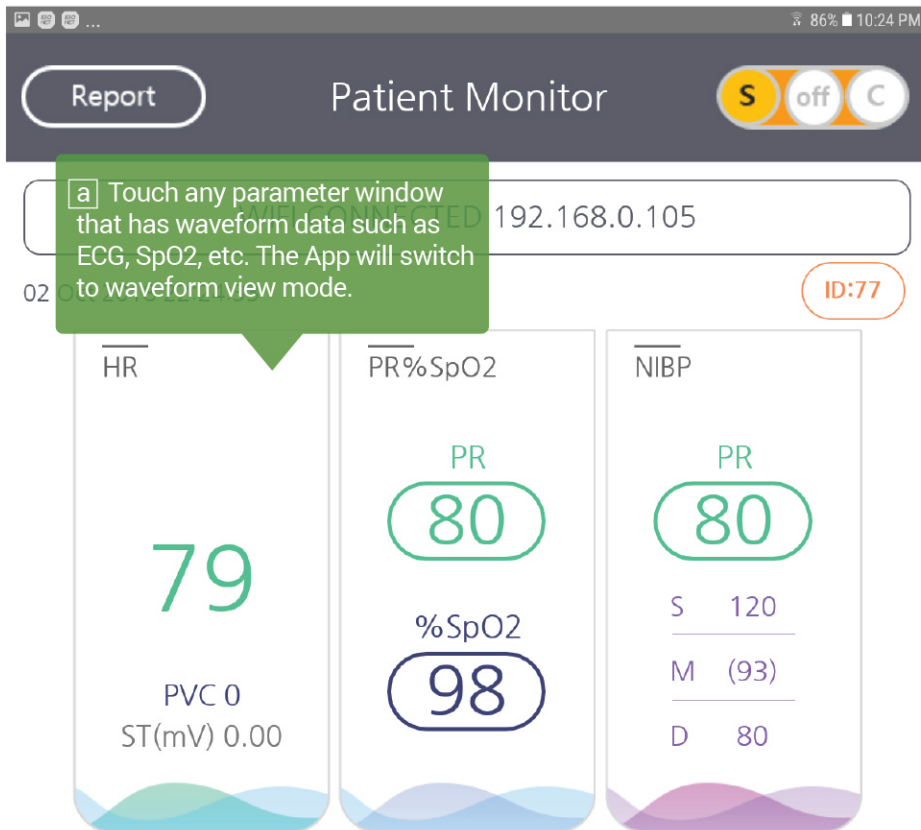**J** Parameter Window - Multifunctional
* Function1: Displays numeric value
* Function2: Switches to Waveform mode if the window is touched.

*** Displays a maximum of six parameters which is selected in the preference (E).
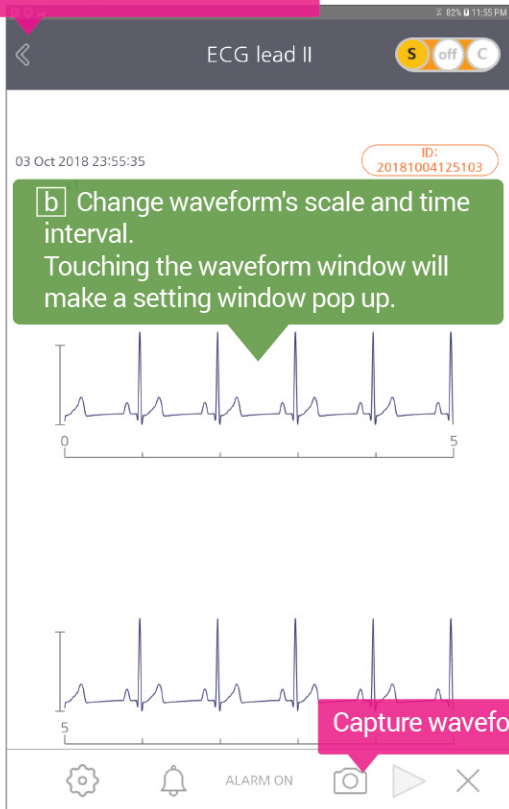
07

WAVEFORM WINDOW

BT-Link Mobile has a waveform view mode where the user can capture the waveform image of the selected parameter. Parameters which have a waveform view are ECG, SPo2, Resp, EtCo2, IBP, and Anesthetic gas.

Return to parameter window

b Change waveform's scale and time interval.
Touching the waveform window will make a setting window pop up.

Capture waveform images

c Change waveform setting and then click OK.

Wave Setting

Time 1 2 5 ● 10

Scale 0.25 0.5 ● 1 2

4

CANCEL OK

08
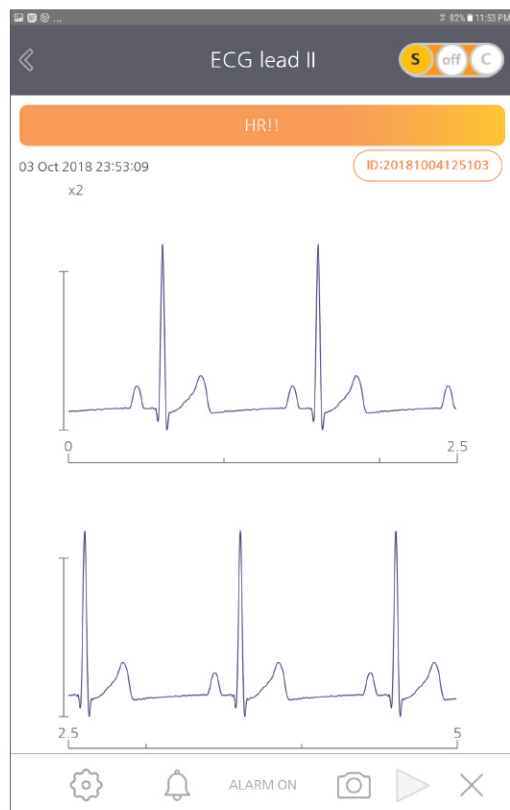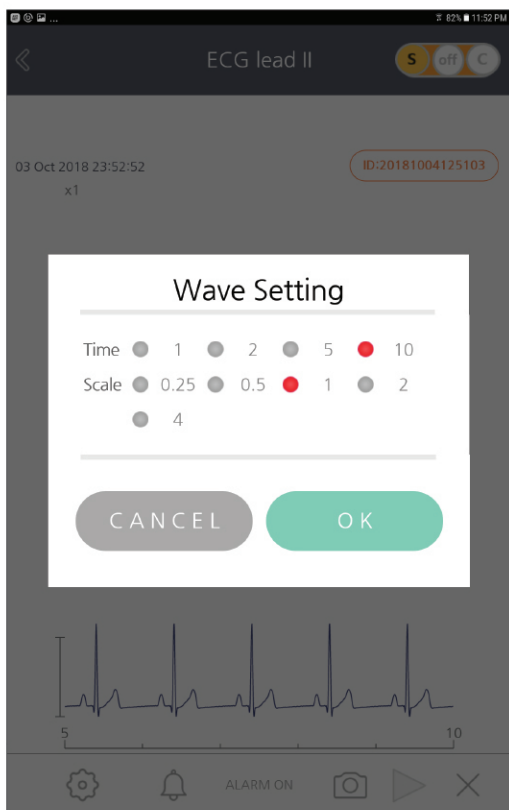
RECORDING PARAMETERS

This function will record selected parameter values in preference and save to a PDF file.
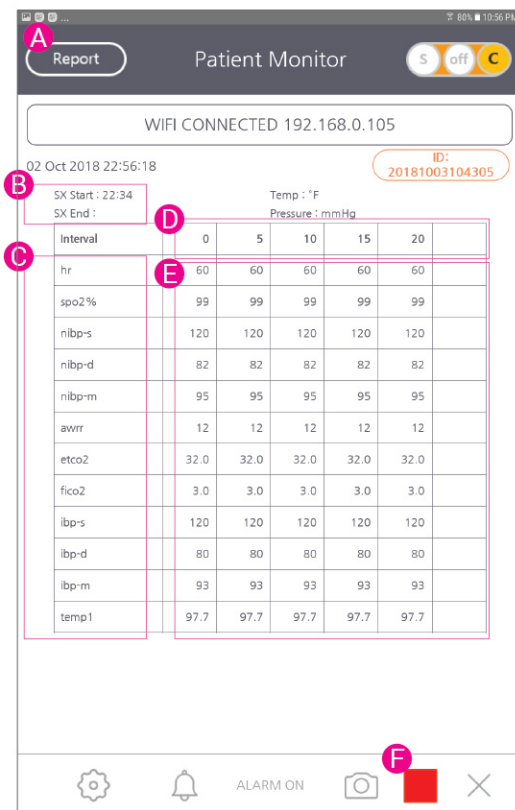
Caution: The patient monitor must have a patient ID in order to start recording.

a Press recording button ▷ at the bottom of the App screen. Recording Setup window will pop up.

b Select recording option and press OK.

Recording Setup

Interval	● 1min	● 5min		
Pressure	● mmHg	● kPa	● Vol.%	
Temp	● ˚C	● ˚F		

CANCEL   OK
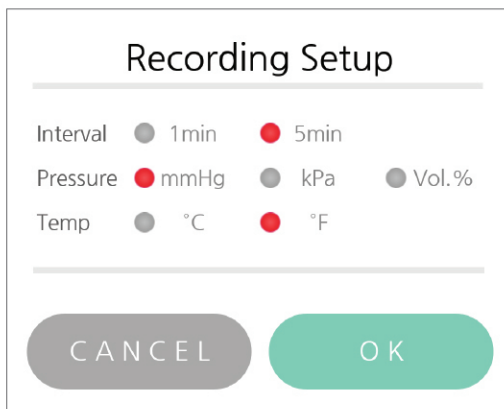
c Recording Window.

(A) Report: Switches to Parameter Window (Not enabled while recording data).

(B) Surgery start and end time.

(C) List of parameters:
** If user touches a parameter which has waveform data, it will switch to waveform mode.
** While the app is in waveform mode, parameters will be recorded continuously.

(D) Time follows from surgery start time.

(E) Recorded parameter values.

(F) Stop recording and save.

Recording window table:

WIFI CONNECTED 192.168.0.105

02 Oct 2018 22:56:18   ID: 20181003104305

SX Start : 22:34   Temp : ˚F
SX End :   Pressure : mmHg

Interval	0	5	10	15	20
hr	60	60	60	60	60
spo2%	99	99	99	99	99
nibp-s	120	120	120	120	120
nibp-d	82	82	82	82	82
nibp-m	95	95	95	95	95
awrr	12	12	12	12	12
etco2	32.0	32.0	32.0	32.0	32.0
fico2	3.0	3.0	3.0	3.0	3.0
ibp-s	120	120	120	120	120
ibp-d	80	80	80	80	80
ibp-m	93	93	93	93	93
temp1	97.7	97.7	97.7	97.7	97.7

ALARM ON

[d] Saving as a PDF file.

Press stop recording button ■ and then enter monitor's name and press OK.

Recording Save

Patient ID	20181003104305
Date	10/02/2018
SX Start	22:34
SX End	23:04
Monitored by	

CANCEL   OK

[e] Saved PDF

File name format: patient ID_mmddyyyy_hhmm.pdf

Patient ID	20181003104305			Unit Name	GENERAL
SX Start	22:34	Temp	°F	Date	10/02/2018
SX End	23:04	Pressure	mmHg	Monitored by	Bionet

Interval	0	5	10	15	20	25	30							
hr	60	60	60	60	60	60	60							
spo2%	99	99	99	99	99	99	99							
nibp-s	120	120	120	120	120	120	120							
nibp-d	82	82	82	82	82	82	82							
nibp-m	95	95	95	95	95	95	95							
awrr	12	12	12	12	12	12	12							
etco2	32.0	32.0	32.0	32.0	32.0	32.0	32.0							
fico2	3.0	3.0	3.0	3.0	3.0	3.0	3.0							
ibp-s	120	120	120	120	120	120	120							
ibp-d	80	80	80	80	80	80	80							
ibp-m	93	93	93	93	93	93	93							
temp1	97.7	97.7	97.7	97.7	97.7	97.7	97.7							

Bionet Clinic

[f] Report List View

Report

77_09292018_1628.pdf	✕
20180930002616_09292018_1812.pdf	✕
20180930002616_09292018_2143.pdf	✕
77_09302018_0036.pdf	✕
77_10022018_2220.pdf	✕
20181003104305_10022018_2305.pdf	✕

BACKGROUND MODE

BT-Link Mobile can also work in the background. The App gives a push alarm if the connected patient monitor sends alarm signals to the App.