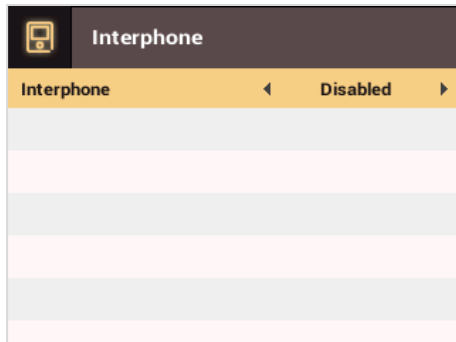


Intercom

You can select whether or not to use the intercom.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **DEVICE > Interphone**, then press **OK**.



- 3 When the intercom is connected, press the **</>** buttons to select **Enabled**.

Secure Tamper

When the tamper is turned on, you can set to delete the entire user, the entire log, and the security key.

- 1 Press **ESC** and authenticate with the Admin level credential.
- 2 Select **DEVICE > Secure Tamper**, then change the settings by pressing **< 4** or **6 >**.
- 3 To save settings, press **OK**.

Device Info

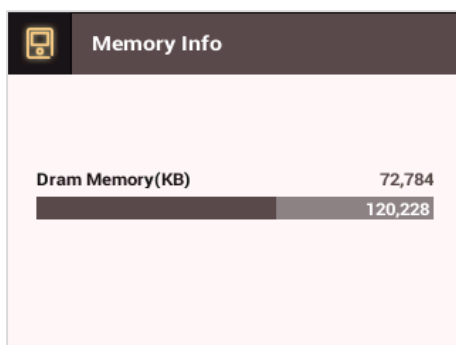
Shows the model name, device ID, FW version, and MAC address.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **DEVICE > Device Info**, then press **OK**.
 - Shows the model name, device ID, HW / FW / Kernel versions and Ethernet/WiFi MAC addresses.
- 3 Check the device information and press **OK**.

Memory Info

Shows the memory usage status.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **DEVICE > Memory Info**, then press **OK**.



- 3 Check the memory information and press **OK**.

Network

TCP/IP Settings

You can configure the network settings for the device.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **NETWORK > TCP/IP** then press **OK**.
- 3 Press the **</>** buttons to select a **Type** then select an item. You can select **Ethernet** or **Wireless**.

TCP/IP	
Type	Ethernet
PORT	51211
DHCP	Enabled
IP Address	192.168.16.141
Gateway	192.168.16.1
Subnet Mask	255.255.255.0

TCP/IP	
Type	Wireless
AP Search	MKNexus5
Encryption	None
Password	
PORT	51211
DHCP	Enabled
IP Address	192.168.16.141

- **Port:** Enter the port number of the device.
- **DHCP:** Select whether or not to use DHCP. If **Disabled** is selected, the user can modify **IP Address**, **Gateway**, and **Subnet Mask**.
- **IP Address:** Enter the IP address of the device.
- **Gateway:** Enter the gateway address of the device.
- **Subnet Mask:** Enter the subnet mask address of the device.
- **AP Search:** Select the AP to connect to.
- **Encryption:** Shows the encryption method of the AP.
- **Password:** Enter the AP login password.
- **Port:** Enter the port number of the device.
- **DHCP:** Select whether or not to use DHCP. If **Disabled** is selected, the user can modify the **IP Address**.
- **IP Address:** Enter the IP address of the device.

- 4 Press **OK** to save the settings.

NOTE

- Press the number buttons to enter the IP address, gateway address, and subnet mask address. Use the **<** button to delete the values entered. Use the **>** button to enter a separator.
- To use **Wireless**, you need a wireless router. For more information on installing and configuring the wireless router, see the manual of the wireless router.

Server Settings

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **NETWORK > Server** then press **OK**.

Server	
Connection Mode	Server > Device
Server URL	
Server IP	0.0.0.0
Server Port	51212

- 3 Select an item and change the settings.
 - **Connection Mode:** Select **Device > Server** to send the connect signal from the device directly to the server. If **Server > Device** is selected, **Server IP** and **Server Port** address cannot be entered.

- **Server URL:** Enter the BioStar 2 server's URL instead of **Server IP**. You can enter the values when **Device > Server** is selected for **Connection Mode**.
- **Server IP:** Enter the IP address of the PC where BioStar 2 is installed. You can enter the values when **Device > Server** is selected for **Connection Mode**.
- **Server Port:** Enter the port address of the PC with BioStar 2 installed. You can enter the values when **Device > Server** is selected for **Connection Mode**.

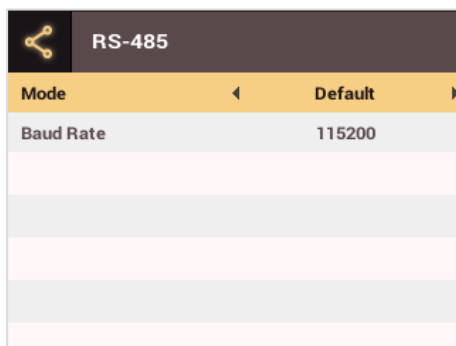
4 Press **OK** to save the settings.

NOTE

- Press the number buttons to enter the values for **Server IP** and **Server Port**. Use the **<** button to delete the values entered. Use the **>** button to enter a separator.

RS-485 Settings

- 1** Press the **ESC** button then authenticate as an administrator.
- 2** Go to **NETWORK > RS-485** then press **OK**.



- 3** Select an item and press the **</>** buttons to change the settings.
 - **Mode:** Select RS-485 mode.
 - **Baud Rate:** Select a baud rate.
- 4** Press **OK** to save the settings.

Check Event Log

Search Logs

You can search logs after setting the condition.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **EVENT LOG > Search** then press **OK**.

Search	
Start Date	2015.3.3
Start Time	00:00:00
End Date	2015.3.3
End Time	23:59:59
Event	All
T&A Event	All
User ID	

- 3 Select an item and press the </> buttons to change the condition. If you press **OK**, matching logs will be displayed on the screen.
- 4 Press **ESC** to return to the previous screen.

Delete All Logs

You can delete all logs stored on the device.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **EVENT LOG > Delete All** then press **OK**.

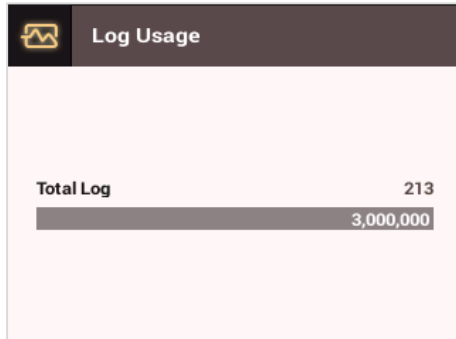
Delete Logs	
	
Are you sure to delete all logs?	
OK	ESC

- 3 Press **OK** to delete all logs. Press **ESC** to cancel.

Check Log Usage

Shows the status of the log usage.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **EVENT LOG > Log Usage** then press **OK**.



- 3 Press **OK** after checking the log usage.

Troubleshooting

Checklist Before Requesting Service

Category	Problem	Possible Causes & Remedy
Power	Power is supplied to the device, but the device does not work.	- If the terminal is apart from the bracket, it may not work due to the tamper switch. - Check the adapter or power connection cable.
PIN	I've lost my PIN.	- For a normal user's PIN, contact your administrator and then enter the PIN again. - If an administration's PIN is lost, contact your installer.
	I cannot open a locked door when I enter a PIN and then press the OK button.	- Check whether the registered PIN is entered correctly. - Check whether the PIN has recently been changed. - If you cannot find the PIN, contact your administrator to change the PIN.
Fingerprint	A fingerprint is enrolled successfully, but the fingerprint recognition fails too often.	- Refer to 'How to Register Fingerprints', and then enroll the fingerprint again. - Since there are variations in recognition rates due to the different characteristics of each fingerprint, please try to enroll another fingerprint. - If there are many number of enrolled fingerprints, change the Matching Timeout setting and then try again. - If a finger is injured, the finger may be recognized as another person's finger.
	The fingerprint recognition does not work.	- Check whether the finger or the fingerprint sensor has sweat, water, or dust on it, and then wipe it clear. - Try again after clearing the finger and the fingerprint sensor with a dry cloth. - If the finger is too dry, try again after blowing gently on the finger.
	The fingerprint sensor does not turn on.	When Sensor Mode set to Auto On, the fingerprint sensor detects if a finger is present. And the sensor is on while the finger is present on the sensor. If you want to keep the fingerprint sensor on, go to AUTHENTICATION > Fingerprint > Sensor Mode and then select Always On.
Door lock	The lock does not work when the door is closed.	The electric lock may have a problem. Ask your installer to examine it.
Time	The time displayed on the device is not correct.	Even though BioStation 2 includes an internal battery, the time could become incorrect due to the discharge of the internal battery if power has not been applied to the system for a long time. Refer to Date & Time to adjust the time.
Administrator Connection	The administrator mode cannot be accessed due to losing the administrator PIN.	- Since BioStation 2 administrators are in charge of permitting the right of entrance, only the administrators can access the menu. - If the administrator menu cannot be accessed, it is possible to get a PIN issued in accordance with a predefined procedure. Ask your installer about the procedure to issue a password.

Product Specifications

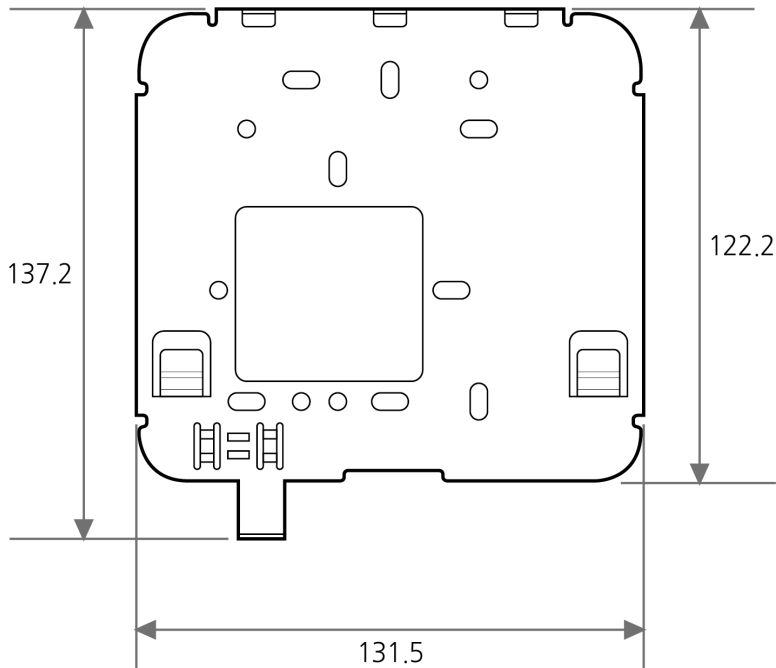
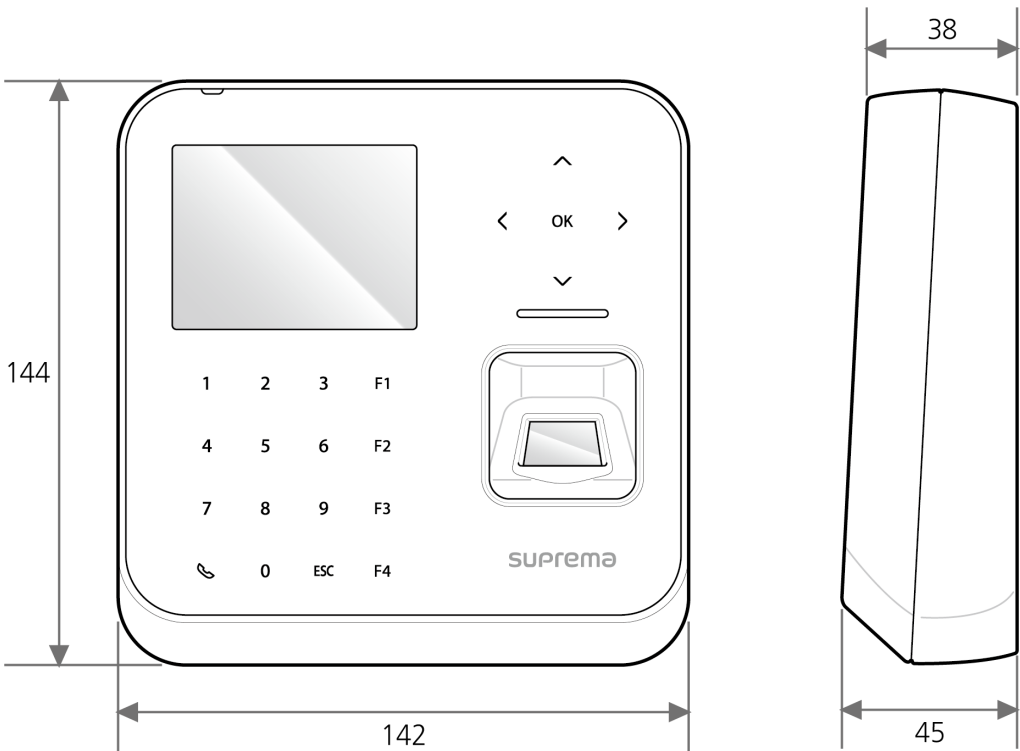
Category	Feature	Specification
Main	Biometric	Fingerprint
	IP Rating	IP 65
	RF Option*	- BS2-OMPW: 13.56Mhz MIFARE, MIFARE Plus, DESFire/EV1, FeliCa, NFC - BS2-OIPW: 13.56MHz iCLASS SE/SR/Seos, NFC
Capacity	Max. User (1:1)	500,000
	Max. User (1:N)	20,000
	Max. Template (1:1)	1,000,000 (Two templates per finger)
	Max. Template (1:N)	40,000 (Two templates per finger)
	Max. Text Log	3,000,000
Interface	Wi-Fi	Yes
	TCP/IP	Yes
	RS-485	1ch Host or Slave (Selectable)
	Wiegand	1ch Input, 1ch Output
	TTL Input	2ch Inputs, 2ch Outputs
	Relay	1 Relay
	USB	USB 2.0
Relay	Voltage	12 VDC
	Current	0.5A, Max. 0.6A
Hardware	CPU	1.0 GHz
	Memory	8GB Flash + 256 MB RAM
	LCD	2.8" QVGA Color LCD
	LED	Multi-Color
	Sound	16-bit Hi-Fi
	Operating Temp.	-20°C ~ 50°C
	Tamper	Yes
	Power	12 VDC , 0.5A, Max. 0.6A
	PoE	Optional(DC-48V)
	Dimensions (W x H x D mm)	142 x 144 x 45(38)
	Certificates	CE, FCC, KC, RoHS, REACH, WEEE

* For detailed information on our supported card list, contact Suprema technical support team at support.supremainc.com.

* USB, Mini USB, RFID Sim socket are for administration

Dimensions

(Unit: mm)



FCC Compliance Information

Safety Symbols

Warning

- When encountering this symbol in the manual, you must follow these recommendations to avoid irreparable damage to your car, system or connected devices or to avoid accidents with injuries or death.

IC Information

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
 (1) this device may not cause interference, and
 (2) this device must accept any interference, including interference

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
 L'exploitation est autorisée aux deux conditions suivantes :
 (1) l'appareil ne doit pas produire de brouillage, et
 (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The antenna(s) used for this device must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC notification to users

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.

This appliance and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter. A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

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Version 3, 29 June 2007

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