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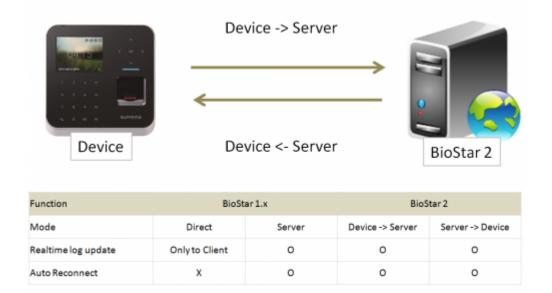
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#### System Configuration, BioStar 2, Device

# How to add devices

BioStar 2 supports two connection modes shown in the image below. Check the fundamental course contents for more information.

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# Add devices to the BioStar 2 server

1. Go to **Device** and click **Search Device**.

BioStar	2 💮 Setting (1) About	() Help			
DASH BOARD	Q ADVANCED SEARCH	All Devi	ces		
Q USER	All Devices		Device ID	Name	Group
	🕞 Waiting Device				
DOOR					
					Not Found

2. Select the devices you want to add to your server.

BioStar 2 has two communication modes, **Device**  $\rightarrow$  **Server** and **Server**  $\rightarrow$  **Device**.

There's no functional difference between the two. However, **Device**  $\rightarrow$  **Server** direction can prevent the device connection from being changed or disconnected from the designated server.

Search	Device						
Found 7	device(s).						Search
	Device ID	Name	Group		Device Type (Master/Slave)	IP Address	Status
~	15	BioEntryW 15 (192.168.16.144) 🖋	All Devices	~	BioEntryW	192.168.16.144	ок
	10006	BioEntryW 10006 (192.168.16.1 🖋	All Devices	~	BioEntryW M	192.168.16.171	ок
	538102099	BioLiteNet 538102099 (192.168 🖋	All Devices	Ŧ	BioLiteNet M	192.168.16.204	ок
	539308121	BioEntryPlus 539308121 (192.1 🖋	All Devices	Ŧ	BioEntryPlus M	192.168.16.239	ок
	538101264	BioLiteNet 538101264 (192.168 🖋	All Devices	~	BioLiteNet	192.168.16.210	ок
	538102578	BioLiteNet 538102578 (192.168 🖋	All Devices	Ŧ	BioLiteNet	192.168.16.200	ок
	546832488	BioStation 2 546832488 (192.16 /	All Devices		BioStation 2	192.168.16.238	ок

If you want to change the device IP address or their communication modes to **Device**  $\rightarrow$  **Server**, click **Set IP** instead of **Add** button.

ound 7	device(s).	Set IP				×	Search
	Device ID						
	15	Device ID	Device Type	Use DHCP		14	ок
	10006	15	BioEntryW	IP Address	192.168.16.144	71	ок
	538102099	538101264	BioLiteNet	Subnet Mask	255.255.255.0	04	ОК
	539308121			Gateway	192.168.16.1	39	ок
~	538101264			Device Port	51211	10	ок
	538102578			✓ Device → Server C	Connection	bo	ок
	546832488			Server IP	192.168.16.25	88	ОК
				Server Port	51212		
	Set IP						Close

3. Set the server IP address and click **Apply**. Then, the device will automatically try to make a connection.

		Use DHCP	
15	BioEntryW	IP Address	
538101264	Confirm		× 5.255.255.0
	-		2.168.16.1
	May take s want to ap	everal minutes. Do you ply changes now?	211
			211
	Yes	No	ection
	165	NO	2.168.16.25
		Server Port	51212

4. With the **Device**  $\rightarrow$  **Server** direction, the device will be shown on the **Waiting Device** list. Refresh the browser to check the connection. Once you find the device, you can confirm and add it to the server by right-clicking on the device tree and clicking **Add Waiting Device** button.

BioStar	r 2 🔞 Setting () About	? Help			
Dash Board	Q ADVANCED SEARCH	All De	vices		
А USER	All Devices		Device ID	Name	
DEVICE	BioEntryW 15 (192.169.16.1 Add BioLiteNet 53810126+(172.1	Waiting Device			
DOOR	🕞 USB Device				
<b>O</b> ZONE					

SEARCH DEVICE     Q ADVANCED SEARCH	All Devices			
All Devices	- Device IC	) Name	Group	Device Type (Master/Slave)
BioEntryW 15 (192.168.16 BioLiteNet 538101264 (192	15	BioEntryW 15 (192.168.16.144)	All Devices	BioEntryW
Waiting Device	538101264	BioLiteNet 538101264 (192.168.16.210)	All Devices	BioLiteNet
USB Device				

# Add slave devices connected via RS-485 interface

1. Check the physical device connection and change the device to be the master device in the device setting.

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Netwo	ork				
	TCP/IP				
	Use DHCP				
	IP Address				<ul> <li>Subnet Mask</li> </ul>
	Gateway	192.168.16.1			Device Port
	<ul> <li>Support 100 BASE-T</li> </ul>	Not Use			<ul> <li>MTU Size</li> </ul>
	Server				
	Device - Server	Connection			
	Server IP	192.168.16.25			<ul> <li>Server Port</li> </ul>
	Serial				
	Serial				
	• R\$485	Default			<ul> <li>Baud Rate</li> </ul>
		Master			
		Slave			
Authe	entication	Default			
Fighting					
	Auth Mode	•	Always	£8	
		-	Always	20	
			Abvave	/=	

- Master Making logical decisions and controlling local zone
- Slave Become a dummy reader to send credential input to the master device
- logical decisions: The master device matches user biometric information and user information received from the slave device, opens the door according to the result, and delivers the result to the slave device. It also controls the Local Zone.

2. Change the device to be **Slave Mode** to be searchable by the master device. Connect to the master device via RS-485 cable, and check the physical wiring connection, and go to BioStar 2 and **DEVICE** tap and right-click on the device tree and then click **Search Slave Device**.

DASH BOARD	Network			
8	TCP/IP			
USER	Use DHCP			
<b>P</b>	IP Address	192.168.16.144		<ul> <li>Subnet Ma</li> </ul>
DEVICE	Gateway	192.168.16.1		Device Port
DOOR	Support     100 BASE-T	Not Use		MTU Size
$\bigcirc$	Server Device Server Con	nection		
	Server IP			Server Port
ACCESS	Serial			
~	• RS485	Slave	Ŧ	Baud Rate
MONITORING				

BioStar	2 🕲 Setting ()	About 🕐 Help			
DASH BOARD	Q ADVANCED SEARCH	All De	vices		
R USER	All Devices	P64 (102	Device ID	Name	Group
Ģ	Waiting Device	Add Wiegand Device Search Slave Device	8101264	BioLiteNet 538101264 (192.168.16.210)	All Devices
DEVICE	USB Device	Reconnect			
•		Manage Users in Device			
DOOR		Sync Device			
~		Reboot			
$\bigcirc$		Delete Device			
ZONE					
Ð					
ACCESS					

3. Check the search result and click **Add** button.

Up to 31 slave devices can be connected through a daisy chain, and up to 8 fingerprint devices can be connected among the total.

But, if there's a need of making many fingerprint matching with multiple devices at the same time, it's recommended to use the limited number of slave fingerprint devices for the optimal matching performance.

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				Sear
	Device ID	Name		Device Typ
~	10000030	DoorModule20 100000030	,	DoorModul 20
~	15	BioEntryW 15		BioEntryW
BioLite	Net 538101264 (	192.168.16.210) has 2 slave Device(s)		

search device     Q advanced search	All D	evices				
All Devices		Device ID	Name	Group	Device Type (Master/Slave)	IP Addres
BioLiteNet 538101264 (192.		538101264	BioLiteNet 538101264 (192.168.16.210)	All Devices	BioLiteNet	192.168.16.210
BioEntryW 15		15	BioEntryW 15	All Devices	BioEntryW	3
DoorModule20 100000034		10000030	DoorModule20 10000030	All Devices	DoorModule20	8
Waiting Device						
USB Device						

### Video Demo

#### devices.mp4

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