

Network Remote Control System SCU-LAN10

Installation Manual

Preparation Procedure

The network remote control system requires a compatible transceiver (FTDX101MP/FTDX101D, FTDX10 and FT-710 as of October 2023), a Windows 80 or later PC that has a LAN port and audio function, Internet and a LAN network.

System Requirements

- Supported Transceiver
 - FTDX101MP/FTDX101D, FTDX10 and FT-710 (as of October 2023)
- PC
 - OS : Microsoft® Windows® 10/11
 - LAN Port (100BASE-TX/1000BASE-T)
 - Audio interfaces (Speaker or Headphone, and Microphone)
- Local Area Network
- Internet connection (Download speed: at least 2 Mbps , Upload speed: at least 1.2 M bps are recommended at the PC Side)
- Ethernet cable Commercially available straight Ethernet cable (category 5e or higher)
- PC Software
 Download the "SCU-LAN10 Remote Software" and "SCU-LAN10 Setting Tool" from our website.

Initial settings for SCU-LAN10 and remote control software are required. These initial settings are required only once at the first time.

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- ② Install the software on a computer (P.7)
- ③ Preparation for initial setting (P.10)
- ④ Setting the SCU-LAN10 (P.17)
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Introduction

The SCU-LAN10 and the Network Remote Control Software are products for remotely operating compatible transceivers using the Internet or LAN.

Important

Before downloading this software, please read the "Important Notes" carefully.

Downloading or installing this software will be taken as indicating your agreement with the contents of the "Important Notes".

Important Notes

- To remotely control a transceiver using the SCU-LAN10, be sure that you comply with your local regulations.
- All responsibility for the use of this software lies with the customer. Yaesu cannot be held responsible in any way for any damages or losses which may be incurred by the customer as a result of using this software.
- Copyrights and all other intellectual property rights for the software, as well as the software manual, are the property of YAESU MUSEN CO., LTD.
- The revision, modification, reverse engineering, and decompiling of this software is prohibited. Redistribution, transfer, and resale of downloaded files are also prohibited.
- · Downloaded files may only be used for personal use.

Precautions for use

- Settings for remote operation require knowledge of PCs and networks as well as transceiver settings. We do not provide support for the PC settings or network settings.
- For the operation of a PC and peripheral devices, follow the instructions provided in the manuals that come with the PC and peripheral devices.
- To use SCU-LAN10, you need to open the port of the router and change the settings of the firewall and security software. Customers are responsible for network security when using this product.
- In communication using a network, changes in audio, operation delay, and changes in voice quality occur, this cannot be improved in principle.
- Depending on the environment or status of a network, PC, OS, security software, etc., the procedures described in this manual may not work as expected.
- As a result of using SCU-LAN10 and software, we will not be liable for incidental damages such as damages caused by missed communication and call opportunities due to customer's incorrect settings, or malfunctions. Use of this software is at your own risk. Yaesu shall not be liable for any damages caused to you by using this software.

Trademarks

Microsoft[®], Windows[®], Windows[®] 10, Windows[®] 11 are registered treadmarks in the United States and other countries.

System Requirements (Operating Environment)

• Supported Transceivers

FTDX101MP, FTDX101D, FTDX10 and FT-710 (As of October 2023)

Supported Firmware

!

Update to the latest software and firmware on the YAESU website (https://www.yaesu.com).

• FTDX101MP/D	MAIN: DISPLAY: IF DSP: SDR: AF:	V01-14 or later V01-06 or later V01-05 or later V02-03 or later V01-00 or later
• FTDX10	MAIN: DISPLAY: IF DSP: SDR: AF:	V01-01 or later V01-01 or later V01-01 or later V01-00 or later V01-00 or later
• FT-710	MAIN: DISPLAY: DSP: SDR:	V01-11 or later V01-08 or later V01-01 or later V01-04 or later

• PC

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• OS
```

Microsoft[®] Windows[®] 11 Microsoft[®] Windows[®] 10

* S mode is not supported, application runs in 32bit mode

• CPU

Intel[®] i5-3470, i7-3770 or higher, or equivalent or higher performance (CPU clock 3.2GHz, quad core or above)

- RAM (System memory) 4GB or more
- HDD (Hard Disk) 10GB or more free space recommended
- LAN port 100BASE-TX/1000BASE-T
- Audio interfaces
- Speaker or Headphone
- Microphone

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• Microsoft .NET Framework 4 or higher is installed (enabled)

When using a USB Audio type microphone or speaker, the performance of the PC including the OS will be affected. Therefore, the sound may be interrupted, or the remote control may be delayed.

Display resolution:

1366 x 768 or higher

16-bit high color or higher (32-bit true color is recommended)

- LAN
- Internet connection (Download speed: at least 2 Mbps, Upload speed: at least 1.2 M bps are recommended at the PC Side)

Communication is possible with the following 4 ports among UDP (user datagram protocol) ports.

50000 - 50003 (Factory setting)

* Address conversion function (NAPT, IP masquerade) is required when using a router.

If the router or computer has a firewall function, communication to the above ports must be allowed.
 If the Internet line is also used for other purposes, audio may be interrupted, or remote control may become unstable.

- Fixed global IP address or fixed domain name (for remote control using Internet line) When using the Internet, a fixed global IP address or fixed domain name is required for the network where the remote-controlled transceiver is installed.
- Ethernet cable

Use a commercially available straight ethernet cable (category 5e or higher)

• DC Power Supply (Used for FT-710 only)

Use the optional external power cable "E-DC-6" to connect to a power source with DC 9 - 16V and current capacity of 800mA or more.

Other notes and restrictions

In principle, when performing remote operation via a network, delays and data loss are inevitable, and smooth operation, as in direct transceiver operation, may not be possible. Specifically, the following phenomena may occur:

- · Sound may be interrupted
- Since the transmit/standby timing may be delayed, it is not suitable for communications that require quick response such as contests and pileups.
- The voice quality of the transmit and receive audio is altered.
- It does not support image communication such as SSTV and digital mode communication such as RTTY (AFSK), JT65, FT8
- CW mode reception is supported, but remote station operation in CW mode is not possible.

Packing List

- SCU-LAN10 unit
- Connection Cable (13pin DIN plug)
- USB A-B Cable
- Ferrite core 2 pcs
- Cable Tie 2 pcs (For fixing ferrite cores)

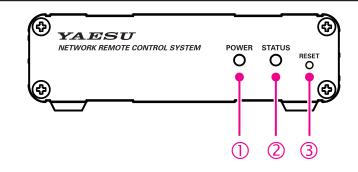
Option

• E-DC-6 DC Power Cable

When using the FT-710, it is necessary to connect the SCU-LAN10 unit to a power supply with DC 9 - 16V and current capacity of 800mA or more.

SCU-LAN10

Front panel



$\textcircled{0} \quad \textbf{POWER indicator}$

Flashes or lights green when the power is on.

② STATUS indicator

In addition to the POWER indicator, various statuses of this unit are displayed.

When main power is supplied to the transceiver, the SCU-LAN10 will start up and enter the standby state. The STATUS indicator (red) starts blinking SCU-LAN10 start up

.

POWER indicator (green) blinks (after about 12 seconds) SCU-LAN10 standby

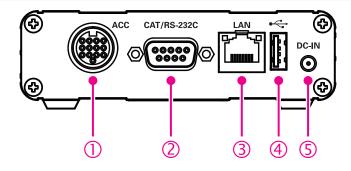
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POWER indicator (green) lights up Remote control connected

③ RESET switch

When the power is ON, press and hold until the STATUS indicator (red) blinks with a thin object (about 5 seconds), and all the settings of this unit will return to the factory default. * Do not push the RESET switch too hard.

Rear panel



$\textcircled{0} \quad \textbf{ACC connector} \quad$

Connect to the transceiver with the included connection cable (13pin DIN connector).

- ② RS-232C connector*
- ③ LAN connector

Use a commercially available straight LAN cable (category 5e or higher) to connect to the LAN.

④ USB connector

Connect to the transceiver with the included USB cable.

S DC-IN*

External power connector. (DC 10.5 V Negative Ground, max 800 mA, Operating: 9 - 16 V)

* It is not used with the FTDX101MP/FTDX101D and the FTDX10.

① Check the LAN for installing the transceiver

As it will be necessary for installation, check the "network environment" of the LAN where the remote-control transceiver is actually installed by following the steps below:

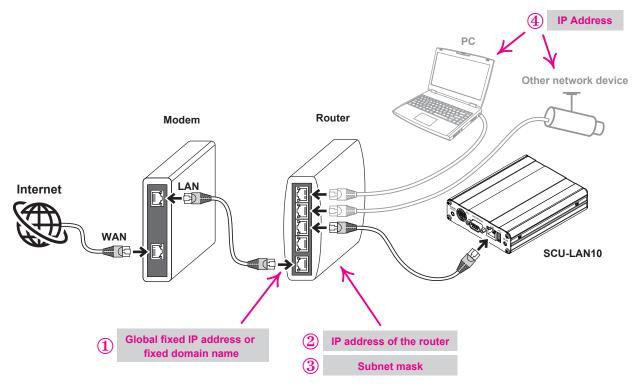


It is not necessary to connect SCU-LAN10 to the network for this confirmation procedure.

Three connection examples are explained below, refer to the explanation that applies to your installation.

(1) For remote control via Internet

When connecting via the Internet, refer to the diagram and check the four designated items.



Check the following settings by referring to the instruction manual of your router or other network device. Generally, for setting routers and network devices, use a web browser such as Internet Explorer to access the IP address of the router or network device and display the setting screen.

${\scriptstyle \bigcirc}$ Global fixed IP address or fixed domain name on the WAN side of the router

When performing remote control via the Internet, apply in advance to an Internet service provider to obtain a global fixed IP address, or use various DDNS (Dynamic Domain Name System) services to obtain a fixed domain name. When using DDNS, it may be necessary to set the DDNS settings automatically when the dynamic IP address is changed.

 $\ensuremath{@}$ IP address of the router

Example:192.168.0.1, etc

③ Subnet mask

Example: 255.255.255.0, 255.255.0.0, etc.

④ IP addresses of other devices (other computers, network cameras, etc.) connected to the same router* If there is a device with the same IP address as SCU-LAN10 in the same network, it will not operate normally.

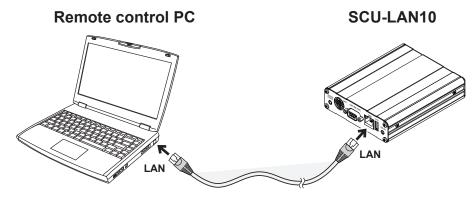
```
Example: 192.168.0.2, 192.168.0.3, etc
```

*Sharing the network with other devices may cause remote control or audio delay, so it is recommended that you do not connect other devices as much as possible.

(2) When connecting directly with an Ethernet cable for remote control

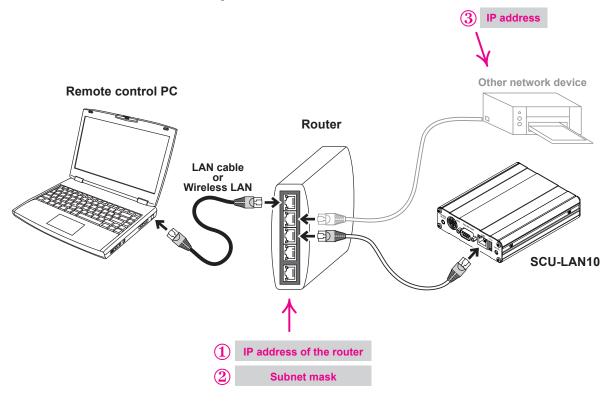
If you connect the compatible transceiver and the SCU-LAN10 directly with an Ethernet cable without using a router in the same building, you do not need to check the network environment.

Proceed to "@ Install the software on a computer" (next page).



(3) Remote control within the same LAN using a router

When connecting in the same LAN environment using a router such as in a house, check the following three items with reference to the figure.



 ${\rm \odot}~{\rm IP}$ address of LAN side of the router

Example:192.168.0.1, etc

② Subnet mask

Example: 255.255.255.0, 255.255.0.0, etc

③ IP addresses of other devices (other computers, network cameras, etc.) connected to the same router* Example: 192.168.0.2, 192.168.0.3, etc

*Sharing the network with other devices may cause remote control or audio delay, so it is recommended that you do not connect other devices as much as possible.

② Install the software on a computer

Install the software on the computer that will be used for initial setup and remote control. * This step is not necessary if you have already installed the software.

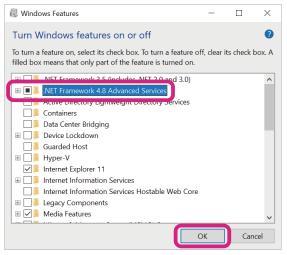
Install Microsoft .NET Framework 4.X

* Operations on a Windows 10 computer are shown in the procedure below for the purpose of explanation.

Microsoft .NET Framework 4.X is installed in Windows 11 and Windows 10 by default. Follow the steps below to confirm that Microsoft .NET Framework 4.X is enabled.

- 1. Click [Start].
- 2. Scroll the Start menu and click the Windows System group.
- Click [Control Panel]. The "Control Panel" screen appears.
- Click [Programs], and then click [Programs and Features]. The "Programs and Features" screen appears.
- Click [Turn Windows features on or off].
 "Windows feature" screen appears.
- 6. Make sure that the check box for "**Microsoft .NET Framework 4.X**" is a black box or check mark, and then click the [**Cancel**] button.

If the check box is blank, click the check box to add a black box or check mark, and then click [OK].



Installation of Microsoft .NET Framework 4.X is completed.

Then proceed to "Install the Network Remote Control Software" (Page 8).

Install the Network Remote Control Software

Execute the installer and install the "SCU-LAN10 Network Remote Control Software" and "SCU-LAN10 Setting Tool" on the PC.

Unzip the zip file (SCU-LAN10_Software_V****.zip) downloaded from YAESU website. The destination folder will be opened automatically.

1. Double-click [SETUP.exe] in the folder.

The files are automatically extracted and the "YAESU SCU-LAN10 Installer" screen is displayed.



* If the "User Account Control" screen is displayed, click the [Yes] button.

2. Click [Next].

YAESU SCU-LAN10 Installer Welcome to the YAESU SCU-LAN10 Installation Program This program will install YAESU SCU-LAN10 on your computer. It is strongly recommended that you exit all programs before running this installation program. Click Next to continue the installation. Click Cancel to quit the installation program.	
This program will install YAESU SCU-LAN10 on your computer. It is strongly recommended that you exit all programs before running this installation program.	
Click Next to continue the installation. Click Cancel to quit the installation program.	
WARNING: This program is protected by copyright law and international treaties.	
Unauthorized reproduction or distribution of this program, or any portion of it is prohibited by Law.	
YAESU	I
Next Cancel	

* If the "Windows Security" screen appears, click the [Install] button.

3. Click [Next].

To change the installation folder, click the [**Browse**] button and select it. A confirmation screen for the installation folder appears.

YAESU SCU-LAN10 Installer			
Select Destination Folder Set up the destination folder where t	ne application will be installed	L	
Select the folder where files will be in	nstalled, then click Next.		
C:\Program Files (x86)\Yaesu Muse	n\SCU-LAN10		Browse
		<u>D</u> efault Fo	lder
Space Available :	33,604,661,248 by	te	
Space Required :	7,192,162 byte		
	Back	Next	Cancel

4. After confirming, click the [Next] button.

YAESU SCU-LAN10 Installer	
Check the Installation information Indicate the installation information such as the destination folder.	
Check the installation information, then click Next when you do not need to change reenter the installation information, then edit it when you need to do it.	it. Click Back to
Destination Folder: C:\Program Files (x86))Yaesu Musen\SCU-LAN10 Extra Menu: Create Shortcut on Desktop	~
Back Next	Cancel

5. If the folder does not exist yet, a confirmation screen will be displayed. To create a new folder, click the **[Yes]** button.

"SCU-LAN10 Network remote control software" and "SCU-LAN10 setting software" are installed. When the installation is complete, "Congratulations!" Will be displayed.

Informat	ion		×
()	The destination folder does	not exist. Do you w	ant to create it?
	<u>Y</u> es	<u>N</u> o	

6. Click [Finish].

AESU SCU-LAN10 Installer	
Congratulations!	
The application has been successfully installed.	
The application has been successfully installed.	
Click the registered icon to start the installed program	n.
	Einish

Installation of "SCU-LAN10 Network Remote Control Software" and "SCU-LAN10 Setting Software" is completed.



If the computer used for the initial settings of SUC-LAN10 and the computer used for remote control are different, install the required software on both computers using the same procedure.

③ Preparation for initial setting

Connect device

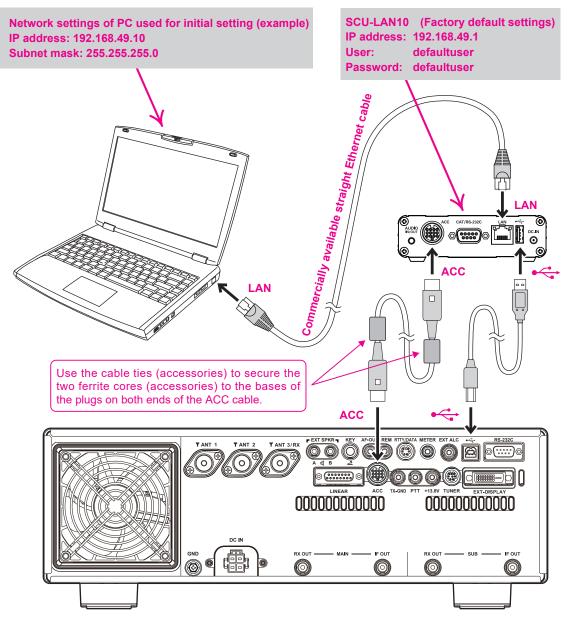
For initial setting, refer to the figure and connect the PC and the SCU-LAN10 directly with a commercially available straight Ethernet cable.

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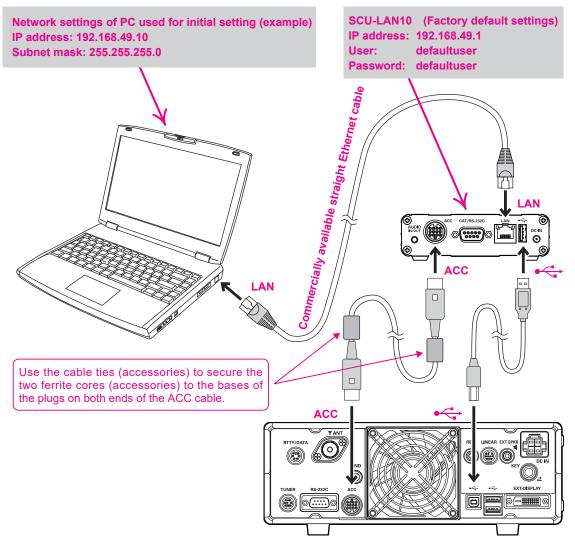
• It is recommended to connect the PC and SCU-LAN10 directly with an Ethernet cable as shown in the figure without using a router for the initial setting.

- Initial settings cannot be made via the Internet, so make initial settings before installing the transceiver and SCU-LAN10.
- 1. Turn the transceiver **OFF**.
- 2. Refer to the figure and connect the SCU-LAN10 directly to your computer with a commercially available straight Ethernet cable.
- 3. Connect the SCU-LAN10 and the transceiver with the included ACC cable and USB cable.

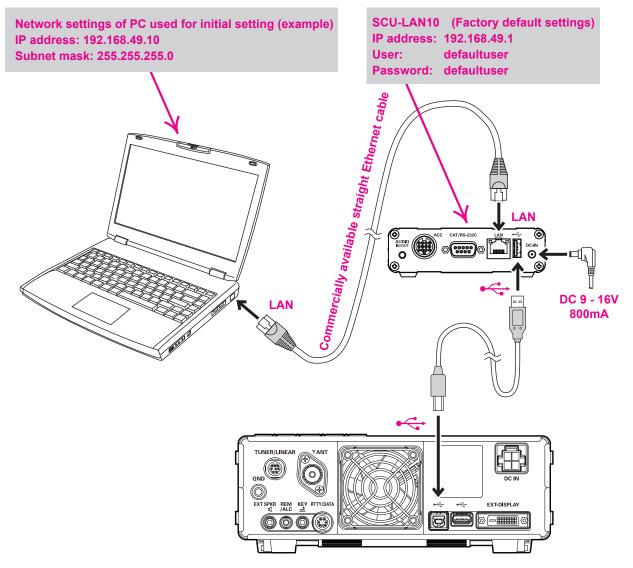
• FTDX101MP/FTDX101D



• FTDX10



• FT-710



Temporarily change the PC network settings

It is necessary to temporarily change the network settings of the PC that is connected to SCU-LAN10 and used for the initial settings.



When you change the network settings, you may not be able to connect to the Internet or network devices from your computer, so restore the settings at the end of this procedure.

* Operations on a Windows 10 computer are shown in the procedure below for the purpose of explanation.

1. Right-click [Start] and click [Network Connections].



2. Click [Change adapter options].

← Settings		– 0 ×
谕 Home	Status	
Find a setting	Network status	Do you have a question?
		Finding my IP address
Network & Internet	드	Troubleshooting network connection issues
🗇 Status	Ethernet	Updating network adapter or driver
-	Public network	Get help
문 Ethernet	You're connected to the Internet	
🛱 Dial-up	If you have a limited data plan, you can make this network a metered connection or change other properties.	Make Windows better
% VPN	Change connection properties	Give us feedback
🕒 Data usage	Show available networks	
Proxy	Change your network settings	
	Change adapter options View network adapters and change connection settings.	
	Sharing options For the networks that you connect to, decide what you want to share.	
	Network troubleshooter Diagnose and fix network problems.	
	View your network properties	

3. Double-click the network adapter (LAN card) connected to SCU-LAN10. The "**Ethernet status**" screen is displayed.

😰 Network Connections		-		×
$\leftarrow \ \ \rightarrow \ \ \land \ \ \land$ Network and Internet $\ \ \rightarrow \ \ \land$ Network Connections $\ \ \rightarrow$	 ・ ・	5		
Organise 🔻			-	?
Ethernet Network Intel(R) PRO/1000 MT Desktop Ad				
1 item				

4. Click [Properties].

🏺 Ethernet Status		×
General		
Connection		
IPv4 Connectivi	y:	Internet
IPv6 Connectivi	y: No	network access
Media State:		Enabled
Duration:		00:34:32
Speed:		1.0 Gbps
D <u>e</u> tails		
Activity		
	Sent — 💵 -	- Received
Bytes:	1,757,215	33,911,508
Properties	Disable Diagnos	je
		Close

5. Click [Internet Protocol Version 4 (TCP/IPv4)], and then click [Properties].
"Internet Protocol Version 4 (TCP/IPv4) Properties" screen appears.
* Please note that "Internet Protocol Version 6 (TCP/IPv6)" cannot be used.

Networking Connect using:	
This connection uses the following items:	<u>C</u> onfigure
Client for Microsoft Networks File and Printer Sharing for Microsoft N Client Control Contr	
Microsoft LLDP Protocol Driver Internet Protocol Version 6 (TCP/IPv6) <	
I <u>n</u> stall <u>U</u> ninstall	Properties
Description Transmission Control Protocol/Internet Proto wide area network protocol that provides cor across diverse interconnected networks	

6. Make a note of all the settings below before making any changes to restore the network settings after completing the settings.

	Protocol Version 4 (TCP/IPv4) Pr	operties		×
this cap	Alternative Configuration n get IP settings assigned automat ability. Otherwise, you need to as appropriate IP settings.			
	otain an IP address automatically			
	e the following IP address:			
<u>I</u> P ad	ldress:			
Subr	iet mask:			
<u>D</u> efa	ult gateway:			
0	tain DNS server address automat	ically		
-O Us	e the following DNS server addres	ses:		
Pref	erred DNS server:			
Alter	native DNS server:			
□ v	aļidate settings upon exit		Ad <u>v</u> an	ced
		OK		Cancel

- 7. Change the settings as follows.
 - (1) Click [Use the following IP address] to add a black circle.
 - (2) Set the IP address to "192.168.49.10".
 - (3) Set the Subnet mask to "255.255.255.0".
 - Leave the Default gateway field blank.
 - It is automatically changed to "Use the following DNS server addresses". No DNS server settings are required.

Internet Protocol Version 4 (TCP/IPv4) Properties	×	
General			
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.			
Obtain an IP address automatica Ouse the following IP address:			– Enter "192.168.49.10"
IP address: Subnet mask:	192 . 168 . 49 . 10		- Enter "192.166.49.10
Default gateway:			 Leave the blank
Obtain DNS server address auto	matically		
• Us <u>e</u> the following DNS server ad	dresses:		
Preferred DNS server:			
<u>A</u> lternative DNS server:			
Validate settings upon exit	Ad <u>v</u> anced		
	OK Cancel	I	

- 8. Click [OK].
- 9. Close unnecessary Windows screens.

The network settings of the PC for initial setting of SCU-LAN10 is completed.

④ Setting the SCU-LAN10

Start the setting software "**SCU-LAN10 Setting Tool**" and perform the initial setting of SCU-LAN10 from a personal computer.

* The following procedure uses Windows 10 operations as an example.

1. Turn the transceiver **ON**.

Make sure that only the POWER indicator (green) on the SCU-LAN10 is blinking. (It takes about 12 seconds.)

2. Click the Windows **Start** button and click the [**YAESU SCU-LAN10 Setting Tool**] icon in the "**Yaesu Mu-sen**" group to start the setting software.



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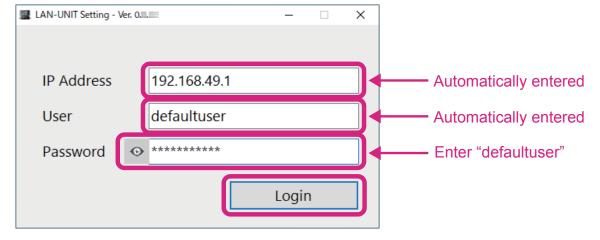
The initial login screen is displayed.

You can also double-click the [YAESU SCU-LAN10 Setting Tool] icon on the desktop to start the setting software.

3. When setting the SCU-LAN10 for the first time, enter the following and click the [Login] button.

IP Address:	192.168.49.1 (Automatically entered)
User:	defaultuser (Automatically entered)
Password:	defaultuser (Enter the same "defaultuser" as User)

* When logging in for the first time or later, enter the previously set value.



- If you log in successfully, the "**New Account**" screen will be displayed automatically only for the first time.
- If "login error!" Is displayed, the password may not have been entered correctly, or the computer's network settings may be incorrect. Also, check the connection between the PC and the LAN cable of SCU-LAN10.
- If the settings saved in SCU-LAN10 are lost after the second time, reset SCU-LAN10 and start over from step 3. If "login error!" Is still displayed, check the communication status by referring to "Confirmation procedure of network communication with SCU-LAN10 by ping (pin) command" (Page 18).



To reset the SCU-LAN10. Press and hold the [**RESET**] button on the front panel of the SCU-LAN10 with the thin-tipped bar for about 5 seconds until only the STATUS indicator (red) blinks. Please note that resetting will restore the SCU-LAN10 settings to the factory default settings.

• Confirmation procedure of network communication with SCU-LAN10 by ping (pin) command

- (1) Click **Start** at the bottom left of the Windows screen.
- (2) Scroll the Start menu and click the "Windows System" group.
- (3) Click [Command Prompt].
 - The "Command Prompt" screen is displayed.
- (4) Enter "ping 192.168.49.1" (for SCU-LAN10 set at the factory) and press the Enter key.
 "Replay from 192.168.49.1:" is displayed, network communication is normal.
 If "Replay from 192.168.49.1:" is not displayed, refer to "③ Preparation for initial setting" (Page 10)and recheck the device connection and network settings of the PC.
- On the "New Account" screen, set "User" and "Password" for future remote control.
 User (Alphabet or number from 4 to 32 alphanumeric characters and some symbols*)
 Password (Alphabet or number from 10 to 32 alphanumeric characters and some symbols*)
 *:Uppercase and lowercase letters are distinguished.

* Be sure to make a note of the set User and Password.

🖳 New Account	_		×
Enter New Account			
User			
Password			
Cancel		ОК	

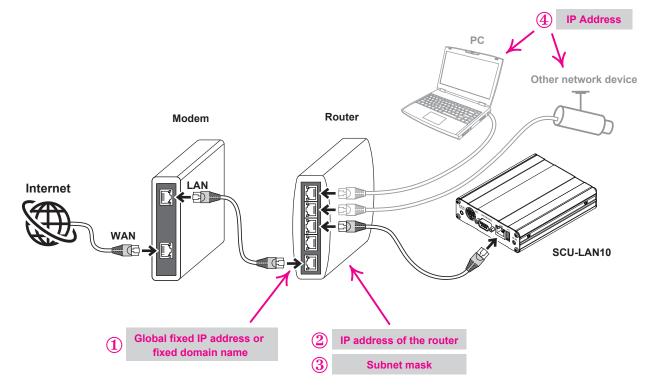
- 5. Click the [OK] button.
- 6. When the setting is completed, "**Success**." Is displayed. Click the [**OK**] button. Then the login screen is displayed.
- 7. The set User and Password are automatically entered, so click [**Login**]. A screen for configuring SCU-LAN10 opens.

🖳 LAN-UNIT Setting - V	er. 💷	×
IP Address		192.168.49.1
User		
Password	0	*****
		Login

Set it according to the network environment of the place where SCU-LAN10 and the transceiver are actually installed, which was confirmed in "① Check the LAN for installing the transceiver" (Page 5)
 The following three connection examples are explained, so please refer to the diagram that applies to your installation.

I LAN-UNIT Setting - Ver.					×
LAN-UNIT FIRMW	AN-UNIT FIRMWARE: V (BOOT: V) Startup on ()				æ
Network					
Account	Network Settings				
F/W Update	Ethernet				
	IP Address	192.168.49.1	Read		
	Subnet Mask	255.255.255.0 (24-bit)	Apply]	
	Default Gateway	0.0.0			
	MAC Address				
	PCC Configuration				
	Control Port	50000 -	Read		
			Apply		

(1) For remote control via the Internet

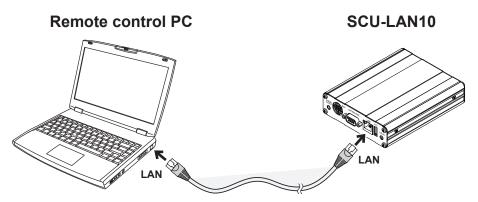


Set according to the following network environment confirmed in "① **Check the LAN for installing the transceiver**" (Page 5). Check the LAN for installing the transceiver.

- ${\rm \odot}$ WAN side global fixed IP address or fixed domain name
- ② IP address of LAN side of router
- ③ Sub-net mask LAN
- ④ IP address of another device (PC, network camera, etc.) connected to the same router

- (1) Setting an "IP Address"
- Set an IP address other than "② IP address of LAN side of router" and "④ IP address of another device connected to the same router". (*Note that this is not a global fixed IP address on the WAN side.)
- If the subnet mask is "255.255.25.0", the range of IP addresses that can be used are from "192.168. xxx.2" to "192.168.xxx.254" but the IP address that may be set automatically by the DHCP function of the router is recommended to set it outside the range. For general routers, we recommend setting the IP address in the range of "192.168.xxx.65" to "192.168.xxx.254".
 Example: 192.168.0.100
- (2) Setting "Subnet Mask" Set the same as "③ Sub-net mask LAN" Example: 255.255.255.0 or 255.255.0.0 etc.
- (3) Setting a "Default Gateway" (When using a router only) Set the same as "② IP address of LAN side of router" Example: 192.168.0.1
- * "Control Port" usually does not need to be changed. If it conflicts with other software, it can be changed within the range of 49990 to 50009. (default value: 50000)
- (4) Go to step 9 on the next page

(2) When connecting directly with a LAN cable for remote control



(1) Setting an "IP Address"

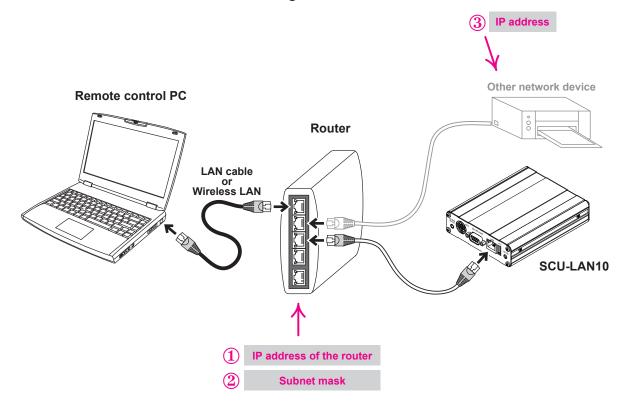
Set an IP address other than the computer's IP address. Generally, set as follows. Example: 192.168.0.100

(2) Setting a "Subnet Mask"

Any setting can be used, but generally set as follows. Example: 255.255.255.0

- (3) No "Default Gateway" setting is required. It is "0.0.0.0" and does not need to be changed.
- * "Control Port" usually does not need to be changed. It can be changed within the range of 49990 to 50009. (default value: 50000)
- (4) Press [Apply] button to save the settings.
- (5) A confirmation screen is displayed. Click [OK].
- (6) Go to step 9 on the next page

(3) Remote control within the same LAN using a router



Set according to the following network environment confirmed in "① Check the LAN for installing the transceiver".

- IP address of LAN side of the router
- ② Subnet mask
- ③ IP addresses of other devices (other computers, network cameras, etc.) connected to the same router
- (1) Set the "IP Address"
- Set an IP address other than (1) IP address of router and (3) IP address other than network device.
- If the subnet mask is "255.255.255.0", the IP address range from "192.168.xxx.2" to "192.168.xxx.254" can be used, but the range of IP address that may be automatically set by the DHCP function of the router. It is recommended to leave it outside. For general routers, we recommend setting the IP address in the range of "192.168.xxx.65" to "192.168.xxx.254".
 Example: 192.168.0.100
- (2) Set the "Subnet Mask"
 - Set the same as the confirmed " Subnet mask".
 - Example: 255.255.255.0, 255.255.0.0
- (3) Set "Default Gateway" (only when using a router)

Set the same IP address as the one you have checked "③ **Router IP address**". Example: 192.168.0.1

- * Normally you do not need to change the "Control Port". If it conflicts with other software, it can be changed within the range of 49990 to 50009. (Factory setting: 50000)
- 9. Click [Apply] to save settings.

The confirmation screen will be displayed.

10. Click [OK].

Note

At this time, if the setting environment and the actually used network environment are different, the connection between the setting software and SCU-LAN10 will be disconnected, but this is normal.

11. Click [Close] at the top right of the screen to close the screen. Initial settings are complete.

Proceed to "S Restore the network settings of the computer" (Page 24).

Other functions of SCU-LAN10 Setting Tool

Account Settings Screen

Configure the account settings for remote control.

🖳 LAN-UNIT Setting -	Ver.	_	
LAN-UNIT FIRMW	ARE: V	(BOOT: v) Startup on (Close
Network		Account Settings	
Account		Account Settings	
F/W Update	Add	Remove Change Password	

Add

Add the account used for remote control. You can register up to two accounts.

1. Click [**Add**].

The new account settings screen is displayed.

Enter "User" (4 to 32 alphanumeric characters and some symbols*) and "Password" (10 to 32 alphanumeric characters and some symbols*) and click [OK].
 *Uppercase and lowercase letters are distinguished.

The new account will be saved.

Remove

Delete the account.

- 1. Click the account you want to delete.
- 2. Click [Remove].

A confirmation screen is displayed.

3. Click [**OK**].

The account will be deleted.

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If you delete both accounts, it will revert to the default account (User: defaultuser, Password: defaultuser).

Change Password

Change account password.

- 1. Click the account whose password you want to change.
- 2. Click [**Change Password**]. The new password setting screen is displayed
- 3. Enter the "**password**" (10 to 32 alphanumeric characters and some symbols*) and click [**OK**]. *Uppercase and lowercase letters are distinguished

The new password will be saved.

• F/W Update screen

When the firmware of SCU-LAN10 is updated, the firmware will be downloaded from YAESU website and updated. Updates can be done remotely via the Internet or LAN.

* For details on the update operation, refer to the update manual attached to the SCU-LAN10 firmware.

In LAN-UNIT Setting	Ver.	– 🗆 X
LAN-UNIT FIRMV	VARE: VIII) Startup on ()	Close
Network	F/W Update	
Account F/W Update		
17 opuate	Restart LAN-UNIT	
	file :	File
	ver:	

⑤ Restore the network settings of the computer

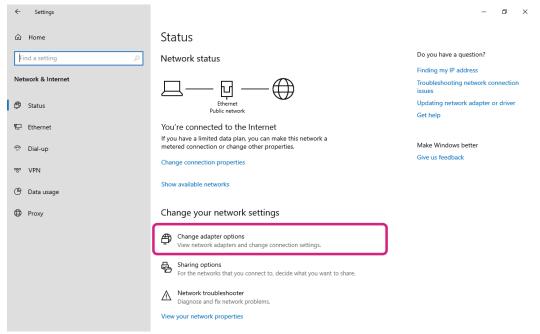
After completing the initial settings of SCU-LAN10, restore the network settings of the personal computer.

If you do not restore the settings, you may not be able to connect to the Internet or network devices from your computer.

- * The following procedure uses Windows 10 operations as an example.
- 1. Right-click [Start] at the bottom left of the Windows screen, and click [Network Connections].



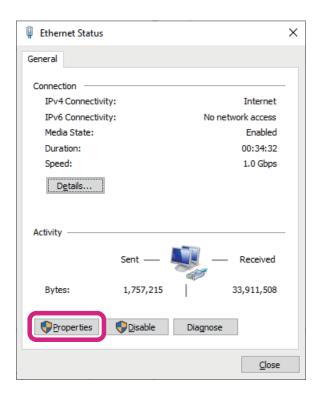
2. Click [Change adapter options].



3. Double-click the network adapter (LAN card) to which SCU-LAN10 is connected. The "**Ethernet status**" screen is displayed.

Network Connections		-		×
$\leftarrow \ \ \rightarrow \ \ \land \ \ \uparrow \ \ \blacksquare$ Network and Internet $\ \ \rightarrow \ \ $ Network Connections $\ \ \rightarrow$	✓ ♂ Search Network Connections			
Organise 🔻			-	?
Ethernet Network Intel(R) PRO/1000 MT Desktop Ad				
1 item				8== 📰

4. Click [Properties].



5. Click [Internet Protocol Version 4 (TCP/IPv4)], and then click [**Properties**]. "Internet Protocol Version 4 (TCP/IPv4) Properties" screen appears.

Ethernet Properties	Х
Networking	
Connect using:	
Intel(R) PRO/1000 MT Desktop Adapter	
<u>C</u> onfigure	
This connection uses the following items:	
Client for Microsoft Networks	~
File and Printer Sharing for Microsoft Networks	
✓ Internet Protocol Version 4 (TCP/IPv4)	
Microsoft LLDP Protocol Driver	
✓ Interest Protocol Version 6 (TCP/IPv6)	
< >	
Install Uninstall Properties	
Description	
Transmission Control Protocol/Internet Protocol. The default	
wide area network protocol that provides communication across diverse interconnected networks.	
OK Cance	ł

6. Set the LAN environment as it was in step 6 of "**Temporarily change the PC network settings**" (Page 13) before the change.

* If it was set to "**Obtain DNS server address automatically (B)**" before changing, it is automatically changed to "**Use the next DNS server address (E)**" So don't forget to bring it back.

Internet	Protocol Version 4 (TCP/IPv4) Propertie	5		×
General	Alternative Configuration				
this cap	n get IP settings assigned auto ability. Otherwise, you need t appropriate IP settings.				
	btain an IP address automatica	ally			
	se the following IP address: —				
<u>I</u> P a	ddress:				
Subr	net mask:				
<u>D</u> efa	ult gateway:				
0	btain DNS server address auto	matically			
	s <u>e</u> the following DNS server ad	dresses:			
Pref	erred DNS server:				
Alter	mative DNS server:				
V	alidate settings upon exit			Ad <u>v</u> a	nced
			OK		Cancel

- 7. Click [OK] bottom.
- Close any open windows that you don't need.
 This completes the work of restoring the network settings of the PC.

© Initial setting of Transceiver

Set the transceiver in advance as follows for remote control. All the following settings are required for normal remote control. Please refer to "**Setting menu operation procedure**" (page 32) for the setting operation of the transceiver.

FTDX101MP/FTDX101D/FTDX10

Settings for transmit audio

Change the transmit audio setting for each mode to **SOURCE: REAR**, **REAR SELECT: USB**. **SSB**

RADIO SETTING → MODE SSB → SSB MOD SOURCE: REAR RADIO SETTING → MODE SSB → REAR SELECT: USB

AM

RADIO SETTING \rightarrow MODE AM \rightarrow AM MOD SOURCE: REAR RADIO SETTING \rightarrow MODE AM \rightarrow REAR SELECT: USB

FM

RADIO SETTING → MODE FM → FM MOD SOURCE: REAR RADIO SETTING → MODE FM → REAR SELECT: USB

CAT Rate setting

Set the communication CAT baud rate to 38400bps. OPERATION SETTING → GENERAL → CAT-1 RATE: 38400bps

CAT TIME OUT TIMER setting

Set the CAT TIME OUT TIMER setting to 10msec OPERATION SETTING → GENERAL → CAT TIME OUT TIMER: 10msec

CAT RTS setting

Set the CAT RTS setting to ON. OPERATION SETTING \rightarrow GENERAL \rightarrow CAT RTS: ON

VOX SELECT setting

Set VOX Select to DATA. OPERATION SETTING → TX GENERAL → VOX SELECT: DATA

TOT (Time Out Timer) setting

It is recommended to set the transmit timeout timer function in case the transceiver remains in the transmit state for some reason.

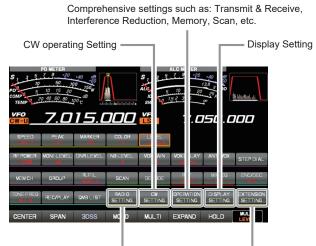
OPERATION SETTING → GENERAL → TX TIME OUT TIMER: 1min - 30min

The setting of the transceiver is completed.

If you do not use a router, proceed to "I Remote connection" (Page 32).

- FTDX101MP/D setting menu operation procedure
- 1. Press the [FUNC] key.
- 2. Touch the category item you want to set.

Or turn the [MULTI] knob to select a category item and press the [MULTI] knob.



SSB, AM, FM & Data Communication (such as RTTY)

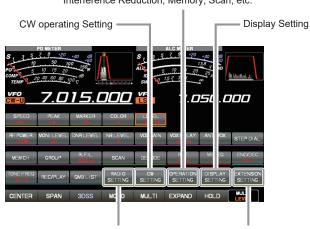
Date, SD Card Settings, Firmware Version Display, Reset Operation.

- 3. Touch the item to set.
- 4. Rotate the [MULTI] knob to select the item setting you want to change, and touch the item.
- 5. Either touch the desired setting or turn the [MULTI] knob to change the setting.
- 6. Press the [FUNC] key to save the setting and return to the function screen.
- 7. Press the [FUNC] key to return to the normal operation screen.

• FTDX10 setting menu operation procedure

- 1. Press the **FUNC** knob.
- 2. Touch the category item you want to set.

Or turn the FUNC knob to select a category item and press the FUNC knob.



Comprehensive settings such as: Transmit & Receive, Interference Reduction, Memory, Scan, etc.

SSB, AM, FM & Data Communication (such as RTTY)

Date, SD Card Settings, Firmware Version Display, Reset Operation.

- 3. Touch the item to set.
- 4. Rotate the FUNC knob to select the item setting you want to change, and touch the item.
- 5. Either touch the desired setting or turn the **FUNC** knob to change the setting.
- 6. Press the **FUNC** key to save the setting and return to the function screen.
- 7. Touch the [BACK] to return to the normal operation screen.

Settings for transmit audio

Change the transmit audio setting for each mode to **SOURCE: REAR**. **SSB**

RADIO SETTING → MODE SSB → MOD SOURCE: AUTO or USB RADIO SETTING → MODE SSB → USB MOD GAIN: 95

AM

RADIO SETTING \rightarrow MODE AM \rightarrow MOD SOURCE: AUTO or USB RADIO SETTING \rightarrow MODE AM \rightarrow USB MOD GAIN: 95

FM

RADIO SETTING → MODE FM → MOD SOURCE: AUTO or USB RADIO SETTING → MODE FM → USB MOD GAIN: 95

CAT Rate setting

Set the communication CAT baud rate to 115200bps. OPERATION SETTING \rightarrow GENERAL \rightarrow CAT-1 RATE: 115200bps

CAT TIME OUT TIMER setting

Set the CAT TIME OUT TIMER setting to 10 (msec) OPERATION SETTING → GENERAL → CAT-1 TIME OUT TIMER: 10msec

VOX SELECT setting

Set VOX Select to USB. OPERATION SETTING → TX GENERAL → VOX SELECT: USB

TOT (Time Out Timer) setting

It is recommended to set the transmit timeout timer function in case the transceiver remains in the transmit state for some reason.

OPERATION SETTING → GENERAL → TX TIME OUT TIMER: 1min - 30min

SCU-LAN10 setting

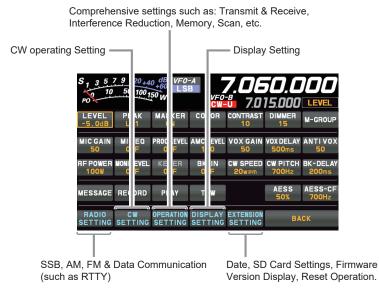
Set SCU-LAN10 to ON. OPERATION SETTING → GENERAL → SCU-LAN10: ON

The setting of the transceiver is completed.

If you do not use a router, proceed to "® Remote connection" (Page 32).

- FT-710 setting menu operation procedure
- 1. Press the **FUNC** knob.
- 2. Touch the category item that is to be set.

Or turn the **FUNC** knob to select a category item and press the **FUNC** knob.



- 3. Touch the desired item, or rotate the **FUNC** knob to select the desired item, then press the **FUNC**] knob.
- 4. Rotate the **FUNC** knob to select the desired item, then touch the item, or rotate the **FUNC** knob to select the desired item, then press the **FUNC** knob
- 5. Rotate the **FUNC** knob, or touch "<" or ">" on either side of the value setting that is to be changed.
- 6. Press the **FUNC** knob, or wait for about 3 seconds to save the setting.
- 7. Touch [BACK] several times to return to normal operation.

⑦ Open UDP port of router

When using a router or firewall in the LAN environment where the transceiver and SCU-LAN10 are installed, it is necessary to open the UDP (User Datagram Protocol) port (permit communication).

By default, the following 4 UDP ports are used.

50000, 50001, 50002 and 50003

The name of the function in the router that opens the port differs depending on the company, and includes "Port translation", "Port forwarding", "IP masquerade", "NAT address translation", etc.

In general, use a web browser such as Internet Explorer on your computer to access the IP address of the router itself to set the settings, or use the dedicated setting software provided by the router manufacturer to set the settings.

For the setting method, refer to the instruction manual of your router.

Setting Example

Open the router setting screen

- 1. Start a web browser (such as Internet Explorer) on your computer.
- 2. Enter "192.168.***.***" (default value) in the address field and press the [Enter] key on your computer.

The initial value of the IP address of the router for displaying the setting screen varies depending on the product of each company. IP address examples: 192.168.11.1, 192.168.0.1, 192.168.10.1, 192.168.1.1, 192.168.12.1, etc.

The login screen is displayed.

- 3. Enter "********" (user name) as the user name.
- 4. Enter "********" (password) in the password field.



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The initial values for the user name and password differ depending on the product of each company. Example user name: admin, root, etc.

Password examples: None (Enter only), password saved the first time, admin, password, etc.

Set the UDP port to open

- 1. Click the "**Port conversion**" function from the menu.
- 2. Set the following contents.
 - Protocol: TCP/UDP
 - Port number: "50000"
 - LAN side IP address: IP address set in SCU-LAN10 (example: 192.168.0.100)
- 3. Save the settings.
- 4. Repeat steps 2 3 to add the next port to the table.

50001
50002
50003

- 5. Confirm that 4 ports from 50000 to 50003 are set.
- 6. Close the web browser.

8 Remote connection

Install the SCU-LAN10 and Transceiver

Install the SCU-LAN10 and the transceiver according to the network environment of the installation location referring to the diagram.

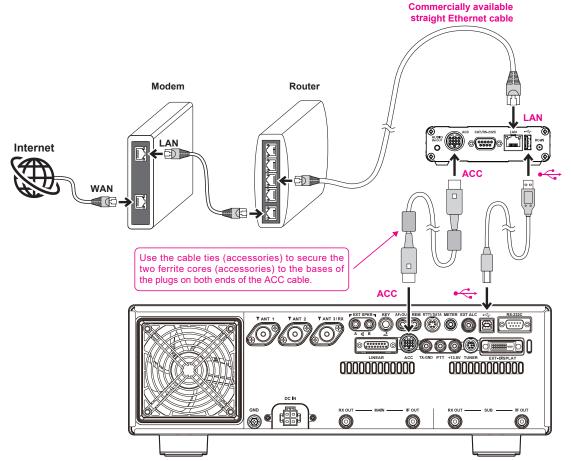
- 1. Turn the transceiver **OFF**.
- 2. Connect the SCU-LAN10 to a router or computer with a commercially available straight LAN cable.
- 3. FTDX101MP/FTDX101D and FTDX10
 - Connect the SCU-LAN10 and the transceiver with the included ACC cable and USB cable.
 - Attach the two included ferrite cores to the bases of the connectors on both ends of the ACC cable using the cable ties (accessory).

<u>FT-710</u>

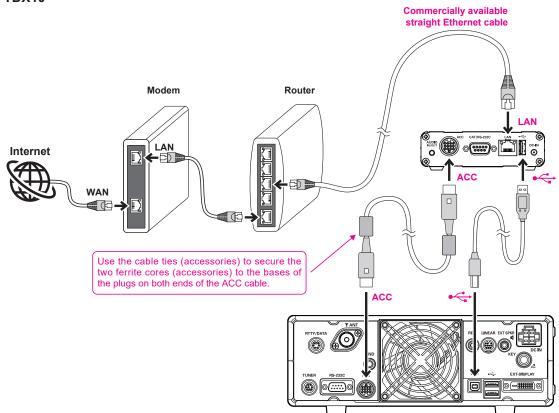
- Connect the SCU-LAN10 and the transceiver with the included USB cable.
- Do not use the included ACC cable.
- Connect the SCU-LAN10 unit to a power supply with DC 9 16V and current capacity of 800mA or more using E-DC-6 (option).

(1) Connection diagram for remote control via the Internet

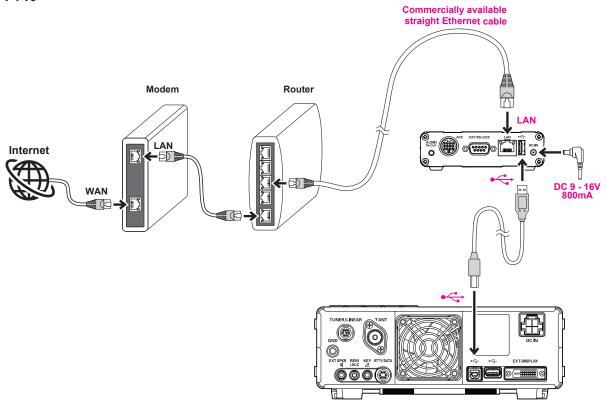
FTDX101MP/FTDX101D



• FTDX10

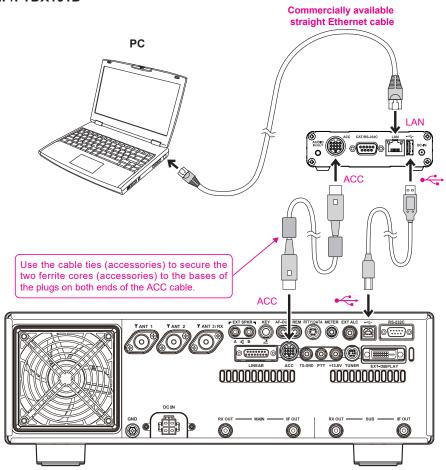


• FT-710

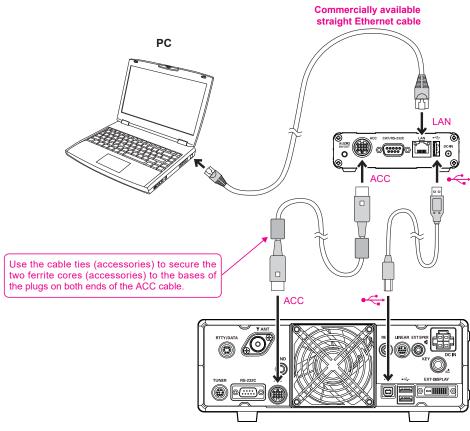


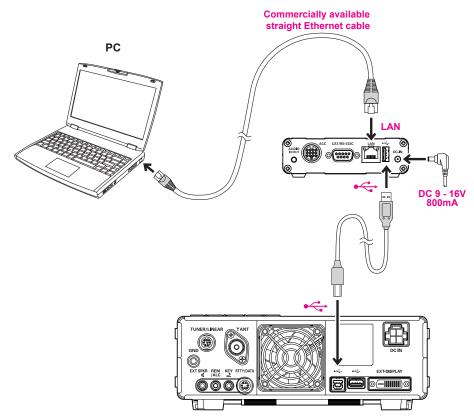
(2) Connection diagram when connecting directly with a LAN cable and performing remote control

FTDX101MP/FTDX101D

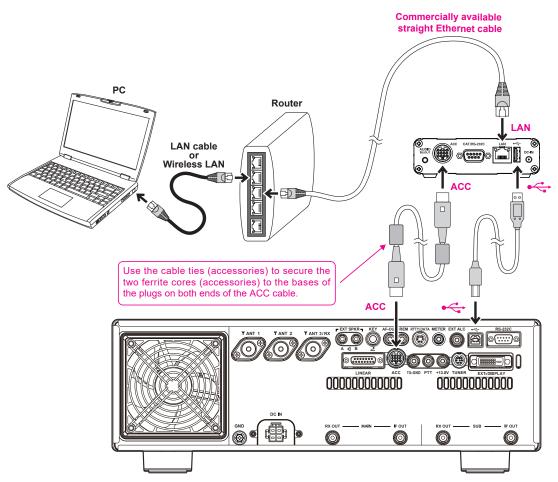


• FTDX10

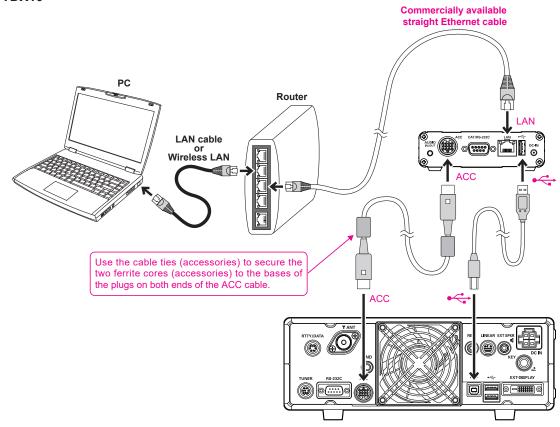


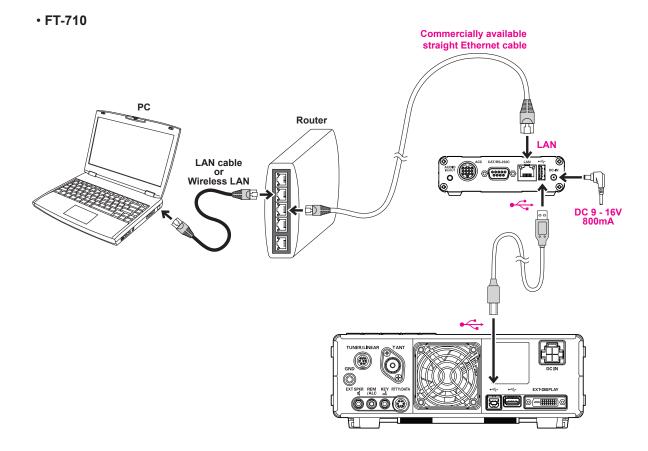


- (3) Connection diagram for remote control within a local LAN using a router
 - FTDX101MP/FTDX101D



• FTDX10





4. Turn the transceiver **ON**.

Confirm that only the POWER indicator (green) of SCU-LAN10 is in the state of blinking. (It takes about 12 seconds.)

Initial settings for remote control software

Start the remote control software "SCU-LAN10 Network Remote Control Software".

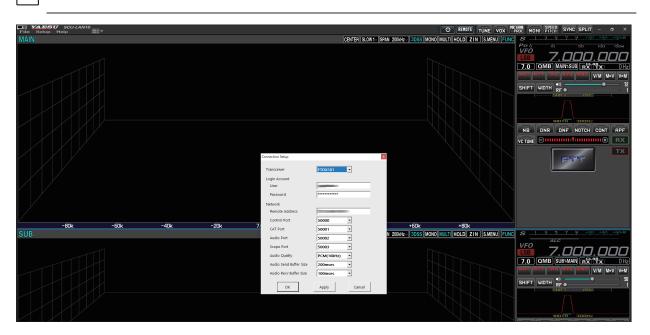
1. Click the Windows **Start** button, and then click the [**YAESU SCU-LAN10**] icon in the "**Yaesu Musen**" group to start the remote control software.

When connecting to SCU-LAN10 for the first time, the "**Connection Setup**" screen will be displayed automatically.



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You can also double-click the [YAESU SCU-LAN10] icon on the desktop to start the remote control software.



- 2. On the "Connection Setup" screen, configure the settings required to connect to SCU-LAN10.
 - This setting is required only once the first time.
 - You can always change it later with "Connection Setup" in the Setup menu.

Connection Setup	
Transceiver	FTDX101
Login Account	
User	
Password	[
Network	
Remote Address	
Control Port	50000 -
CAT Port	50001 💌
Audio Port	50002 💌
Scope Port	50003
Audio Quality	PCM(16kHz)
Audio Send Buffer Size	200msec 💌
Audio Recv Buffer Size	100msec 💌
ОК	Apply Cancel

(1) Login Account settings

User: Enter the User that is set for SCU-LAN10.

Password: Enter the password that is set for SCU-LAN10.

(2) Network settings

Remote Address: Enter the remote address to connect to SCU-LAN10. The settings differ depending on the network environment as follows: When using the Internet For fixed global IP: Enter the fixed IP address obtained from the provider For dynamic DNS service: Enter the acquired domain name

When using a local LAN

Enter the IP address set for SCU-LAN10 Example: 198.168.0.100

Normally, other setting items do not need to be changed.

3. After completing the settings, click the **[OK]** button.

The connection settings are complete.

About setting items

Transceiver	Select the transceiver to connect.					
Login Account						
User	See above for details.					
Password	See above for details.					
Network						
Address	See above for details.					
Control Port	PORT number used for remote control. It can be set in the range of 49990 to 50009.					
	(Default setting: 50000) Normally, it does not need to be changed.					
	If you set another port number with the setting software in the initial setting, you need to set the same port number.					
CAT Port	PORT number used for remote control. It can be set in the range of 49990 to 50009. (Default setting: 50001) Normally, it does not need to be changed.					
Audio Port	PORT number used for remote control. It can be set in the range of 49990 to 50009.					
	(Default setting: 50002) Normally, it does not need to be changed.					
Scope Port	PORT number used for remote control. It can be set in the range of 49990 to 50009.					
	(Default setting: 50003) Normally, it is not need to be changed this.					
Audio Quality	Select the audio format sampling rate to use for transmission. (Default setting: PCM (16kHz)) Normally, there is no need to change this. Depending on the line status, changing the setting may stabilize the voice quality. PCM(16kHz), PCM(8kHz), µ-Law(16kHz), µ-Law(8kHz)					
Audio Send Buffer Size	μ-Law is a compressed format. Select the transmission buffer size of the audio transmitted from the transceiver.					
Audio Send Buller Size	(Default setting: 200 (msec)) Normally, it is not necessary to change this. Depend- ing on the line status, changing the setting may stabilize the voice quality. Select the audio buffer size for the audio received by the transceiver. (Default set-					
	ting: 100 (msec)) Normally, it is not necessary to change this. Depending on the line status, changing the setting may stabilize the voice quality					

Initial audio level settings

Make the initial settings for levels of the transmitted audio and received audio. Make settings on the Windows system and fine-tune on the screen of the remote control software during operation.

Windows volume control

1. Click [Setup], and then click [Audio Setup]. The "Audio Setup" screen will appear.

	ppear.
File	YAESU SCU-LAN10 Setup Help
MAID	Connection Setup
	Audio Setup
l l	

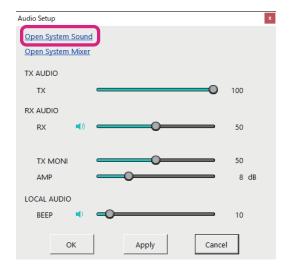
2. Click "Open System Sound".

The Windows "Sound" screen appears.

• FTDX101MP/FTDX101D

Audio Setup		×
Open System Sound		
Open System Mixer		
TX AUDIO		
тх	O 1	00
RX AUDIO		
MAIN 📢)		50
SUB 📢)		50
TX MONI		50
AMP		8 dB
LOCAL AUDIO		
BEEP 🛋		10
ОК	Apply Cancel	

• FTDX10/FT-710



3. Click [Speaker] and then click [Properties].

Sound	I						×
Playback	Recording	Sounds	Communi	cations			
Select a	playback d	evice belo	w to mod	ify its sett	ings:		
Q			Audio De	vice] [
	High D	hones Definition ugged in	Audio De	vice		-	
<u>C</u> onfi	gure			Set Defau		Properties)
			OK	Ca	ancel	Apply	

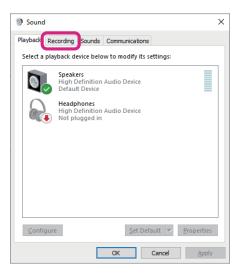
4. Click the [Level] tab.

Speakers Properties	×
Genera Levels Enhancements Advanced Spatial sound	
Speakers Change [con	
Controller Information	
High Definition Audio Device Properties Microsoft	
Jack Information No Jack Information Available	
Device usage: Use this device (enable) ~	-
OK Cancel Apply	

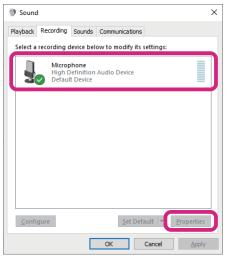
- 5. Drag the [Slide Bar] to adjust the volume and then click [OK].
- * This volume level is the system master volume. You cannot hear the received audio if it is muted or is zero.

🕅 Spea	kers Proj	perties				×
General	Levels	Enhancements	Advanced	Spatial so	und	
Speak	Arc					
	+	-↑ →		50 🌒	Balance	
			ОК	Cancel	Apply	

6. Click the [Recording] tab.



7. Click the [**Recording device**] that is connected to the microphone, and then click [**Properties**]. The "**Properties**" screen of the recording device is displayed.



8. Click the [Level] tab.

Hicrophone Properties	×
General Listen Levels Advanced	
Microphone Change [con	
Controller Information	
High Definition Audio Device Properties Microsoft Microsoft	
Jack Information Front Panel 3.5 mm Jack	
Device usage: Use this device (enable) ~	
OK Cancel Apply	

- 9. Drag the [Slide Bar] to adjust the microphone volume, then click [OK].
- * If it is muted (no audio) or set to zero, the transceiver cannot be modulated from the microphone of the computer.

Hicrophone Properties	х
General Listen Levels Advanced	
Microphone	
OK Cancel Apply	

10. Click [OK] on the Windows "Sound" screen.

Sound	I					×
Playback	Recording	Sounds	Communic	ations		
Select a	recording d	levice bel	ow to mod	ify its settings:		
			Audio Dev	ice		
<u>C</u> onfi	gure		<u>5</u>	et Default 🛛 🔻	Properties	
			ОК	Cancel	Apply	

11. On the "Audio Setup" screen, click "Open System Mixer".

The Windows "Volume Mixer" screen appears.

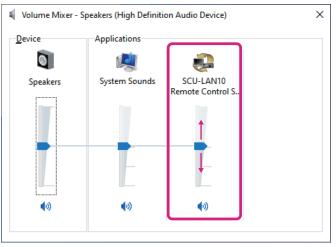
• FTDX101MP/FTDX101D

Audio Setup		x
Open System Sou		
TX AUDIO		
ТХ	0	100
RX AUDIO		
MAIN 🔍		50
SUB 🛋		50
TX MONI		50
AMP		8 dB
LOCAL AUDIO		
BEEP 📢	-0	10
ОК	Apply Canc	el

• FTDX10/FT-710

Audio Setup		×
Open System Sound		
<u>Open System Mixer</u>	J	
TX AUDIO		
ТХ	— 100	
RX AUDIO		
RX 🔍	50	
TX MONI	50	
AMP	8 0	İB
LOCAL AUDIO		
BEEP 🛋	10	
ОК	Apply Cancel	

12. Drag the "SCN-LAN10 Remote Control Software" [slide bar] to adjust the speaker volume.



13. Click the **[X]** at the top right of the screen to close the screen.

Volume control of SCU-LAN10 Network Remote Control Software

1. Adjust the volume on the "Audio Setup" screen.

FTDX101MP/FTDX101D

If the "Audio Setup" screen is not open, click [Setup] and then [Audio Setup].

x Audio Setup Open System Sound Open System Mixer TX AUDIO ΤХ 100 RX AUDIO MAIN 50 SUB 50 50 TX MONI AMP 8 dB LOCAL AUDIO BEEP 10 ок Apply Cancel **TX AUDIO** ТΧ Adjust the transmit modulation level. MIC GAIN 50 + X This adjustment is the same as the MIC GAIN adjustment bar that appears when you right-click the MIC GAIN/PROC button. **RX AUDIO** MAIN Adjusts the receive volume of the MAIN band. This adjustment is the same as the volume control bar the MAIN band operation block. SUB Adjusts the receive volume of the SUB band. This adjustment is the same as the volume control bar -0-the SUB band operation block. **TX MONI** Adjusts the volume of the transmit audio that is monitored by the monitor function. MONI LEVEL This adjustment is the same as the MONI adjustment bar that appears when you right-click the MONI button. AMP Adjust this when the receive audio of the MAIN and SUB band, or the TX MONI volume is extremely low or distorted even after the Windows volume adjustment or the above volume adjustment. Normally you do not need to change. (Factory setting: 8 dB) LOCAL AUDIO BEEP Adjusts the beep volume when operating the remote control software.

* If the volume is extremely low or distorted even after adjustment on the "Audio Setup" screen, perform the Windows volume adjustment again with "Windows volume control" (Page 39).

• FTDX10/FT-710

Audio Setup

	Audio Setup ×							
	Open System Sound							
	Open System Mixer							
	TX AUDIO							
	тх 100							
	RX AUDIO							
	RX 📢 50							
	TX MONI 50							
	AMP 8 dB							
	LOCAL AUDIO							
	BEEP () () 10							
	OK Apply Cancel							
TX AUDIO								
тх	Adjust the transmit modulation level.							
	This adjustment is the same as the MIC GAIN adjustment bar							
	that appears when you right-click the MIC GAIN/PROC button.							
RX AUDIO	11 , 3							
RX	Adjusts the receive volume.							
	This adjustment is the same as the volume control bar							
	the MAIN band operation block.							
the CLIP hand anaration block	•							
	the SUB band operation block.							
	Adjusts the volume of the transmit audio that is monitored by the monitor func-							
	tion.							
	This adjustment is the same as the MONI adjustment bar							
	appears when you right-click the MONI button.							
AMP	Adjust this when the receive audio of the MAIN and SUB band, or the TX MONI							
	volume is extremely low or distorted even after the Windows volume adjust-							
	ment or the above volume adjustment. Normally you do not need to change.							
	(Factory setting: 8 dB)							
LOCAL AUDIO								
BEEP	Adjusts the beep volume when operating the remote control software.							

x

* If the volume is extremely low or distorted even after adjustment on the "Audio Setup" screen, perform the Windows volume adjustment again with "Windows volume control" (Page 39).

Using Mono Audio in Windows 10 and Windows 11

Depending on the transceiver used in the network remote control system, the receive audio output will be as follows:

FTDX101MP/D	The MAIN receive audio is output from the left channel.
	The SUB receive audio is output from the right channel.
FTDX10	The receive audio is output only from the left channel.
FT-710	The receive audio is output from both left and right channels.

On the FTDX101MP/D series and FTDX10 series, to combine the audio of the left and right channels and output audio from both channels, select [**Start**] \rightarrow [**Settings**] \rightarrow [**Easy of Access**], for WIndows 10, select [**Accessibility**] and for WIndows 11, select \rightarrow [**Audio**] \rightarrow "**Turn on mono audio**" and set it to "**On**". This setting affects all audio in Windows, so set it to "Off" when you don't need it.

Start remote control

1. Press the [🕑] button.

When the transceiver is turned off, the transceiver is automatically turned on and remote control is started.

The " o " button and "REMOTE" button turn red during remote control.

If "NETWORK ERROR" is displayed or remote control does not start, reconfirm "Install the Network Remote Control Software" (Page 8).

	U REMOTE	TUNE VOX	MIC GAIN Proc	MONI SPEEL	SYNC S	PLIT –	٥	×
CENTER SLOW 1~ SPAN 200kHz~ 3DSS MONO	MULTI HOLD ZIN	S.MENU FL	JNC S	1.3.	P.7.9	.+20 .+4	<u>40 +6</u>	OdB
			Po VF	0	5			ow
			LS	B /	".00	10. L	70	\square
			7.		MAIN\$SUB			0 Hz
\rightarrow			AN	TATT	R.FIL A	GC V/M	MFV	V►M

- The [REMOTE] button starts or ends the remote control. Click the [REMOTE] button to turn it on automatically when the transceiver is turned off. If the remote control is disconnected due to network instability, you can restart it by clicking the [REMOTE] button.

Warning sign

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Refer to the Remote Control Unit SCU-LAN10 Operation Manual for details on remote control operation. The operation manual can be opened by clicking "Operation Manual (English)" from the Help menu of the remote control software. Or open the pdf file (SCU-LAN10_Operation_Manual_ENG.pdf) in the software folder.



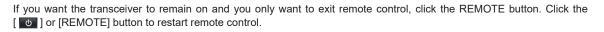
Installation Manual (English) Operation Manual (English) Open the PDF file (this document) of the installation manual (This manual). Open the PDF file of the Operation manual (English).

• Exit remote control

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1. Press the [🕑] button again.

The transceiver will automatically power off and remote control will end.





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