○ICOM

USB DRIVER

INSTALLATION GUIDE

USB 3.0 Supported

You can set up an Icom radio by connecting it to a PC through a USB cable.

Read this installation guide and install the USB driver to your PC, before connecting the USB cable.

The descriptions in this guide are based on the following conditions:
 • You have already downloaded the latest USB driver from the Icom Download Service website.
   https://www.icomjapan.com/support/
 • The operating system of the PC is Windows 10.
   ⓘ The installation steps or displayed dialog may differ, depending on the operating system.

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1. OVERVIEW

System requirements

The following hardware and software are required:

PC
• Microsoft Windows 11 (64 bit)
• Microsoft Windows 10 (32/64 bit)
• Microsoft Windows 8.1 (32/64 bit)*
  *Except for the "RT" version.
• A USB 1.1, 2.0, or 3.0 port

NOTE:
 • If you want to use the Icom radio on a Windows 11 PC, please install the driver for Windows 10.

Cable
• A USB cable
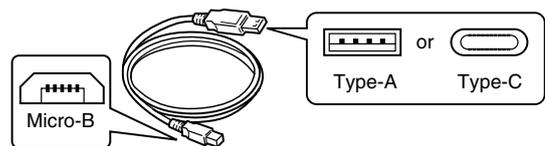
NOTE:
 • Purchase the proper USB cable according to your PC's USB port.
   For the Type-A port: User supplied
   For the Type-C port: OPC-2418 (optional)
 • Use a USB cable for data communication. You cannot set up the radio with a cable that is made for charging only.
 • Depending on the length of a third-party USB cable, the radio may not work correctly, even if the PC recognizes it. Use a cable that is as short as possible.

2. PRECAUTIONS

Before the installation

- When installing the driver, confirm Windows has completed its startup, and then log in as the administrator.
- Confirm no other application is running.

Before connecting to a PC

- The USB driver does not support the automatic recognition system. **NEVER** connect the USB cable between the radio and the PC until AFTER the USB driver has been installed.
  See "Installing the driver" on page 3 for details. Once the driver has been installed, a PC software can be used by just connecting the USB cable.
- Directly connect the radio and the PC. Icom is not responsible for improper operation when connecting them through a USB hub.

After the installation

- **Uninstalling the USB driver**
  You cannot uninstall the USB driver for individual device. After uninstalling the USB driver, none of the devices that require this driver can be recognized by the PC.
- **When another radio is connected**
  A COM port number is automatically added after turning ON the device.

Important

- Depending on your PC performance (OS, environment, and so on), the USB audio may be interrupted, or a control by the PC software may get delayed.
- If the CPU has a heavy load, the USB audio is easily interrupted.
- The settings of the installed audio player may be changed after connecting the radio to the PC.

About compatible radios

- The radios that require this driver are shown on the Icom website.
  https://www.icomjapan.com/support/

3. INSTALLING THE DRIVER

NOTE:
- **NEVER** connect the USB cable between the radio and the PC until the USB driver has been installed. Disconnect the cable, if connected, before starting the USB driver installation.
- This USB driver does not support the automatic recognition system.

ⓘ The displayed dialog, indications, or operations may differ slightly from the following instructions, depending on your system version and settings.

1. Log on the PC as the administrator. Confirm that the radio and PC are not connected, and no other application is running.
2. Extract the downloaded USB driver, and then open the folder that contains the installer.
3. Double-click the following file:
   - For the 32 bit version OS: setup32.exe
   - For the 64 bit version OS: setup64.exe

4. When the "User Account Control" dialog is displayed, click <Yes>.
5. When the language select window is displayed, click <OK>.

Icom USB Serial Port Driver - InstallShield Wizard

Select the language for the installation from the choices below.

English (United States)   **Click**

OK   Cancel
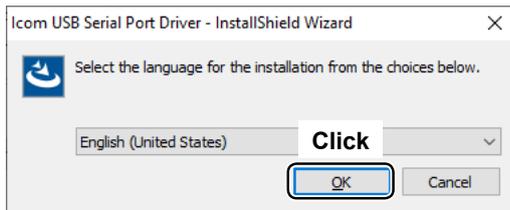
6. When the install screen is displayed, click <Next>.

Icom USB Serial Port Driver - InstallShield Wizard

Welcome to the InstallShield Wizard for Icom USB Serial Port Driver

The InstallShield Wizard will install Icom USB Serial Port Driver on your computer. To continue, click Next.

Click

< Back   Next >   Cancel
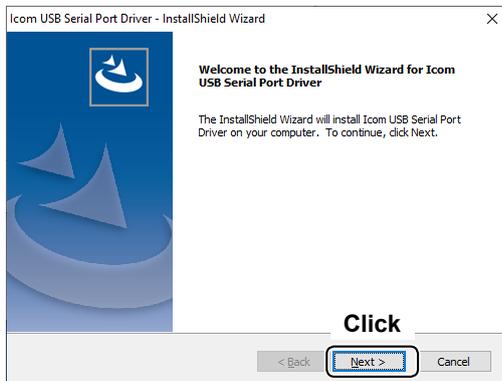
7. When the "Ready to Install the Program" dialog is displayed, click <Install>.

Icom USB Serial Port Driver - InstallShield Wizard

Ready to Install the Program
The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

Click

InstallShield   < Back   Install   Cancel
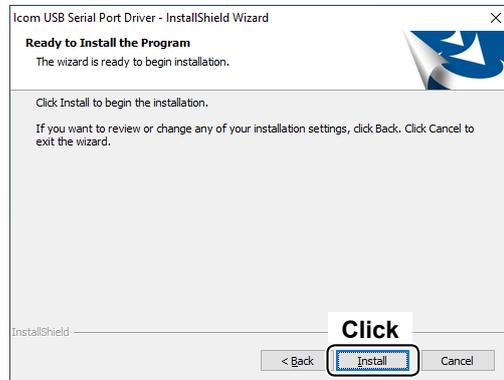
- Windows starts installing the driver.

8. After the installation has completed, click <Finish>.

Icom USB Serial Port Driver - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Icom USB Serial Port Driver. Click Finish to exit the wizard.

Click

< Back   Finish   Cancel

9. Connect the USB cable between the radio and the PC, as shown below. Then, turn ON the radio's power.

ⓘ Confirm the USB cable connector shape.

PC   USB cable

To a USB port   To a [microUSB] port
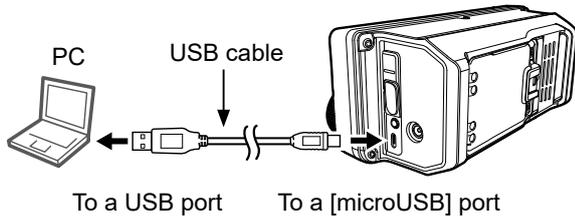
10. The installation icon is displayed on the taskbar as shown below, and then Windows starts installing the driver.

- After the driver installation has completed, the installation icon disappears.
- Depending on your system version or setting, you may be prompted to restart the PC. In this case, follow the instructions on the screen.

After the driver installation has completed, confirm the port connection and port number.

11. Right-click Windows icon, and then click [Device Manager].

System

Device Manager   ❷ Click

Network Connections

Disk Management

Computer Management

Windows PowerShell

Windows PowerShell (Admin)

Task Manager

Settings

File Explorer

Search

Run

Shut down or sign out

Desktop

❶ Right-click
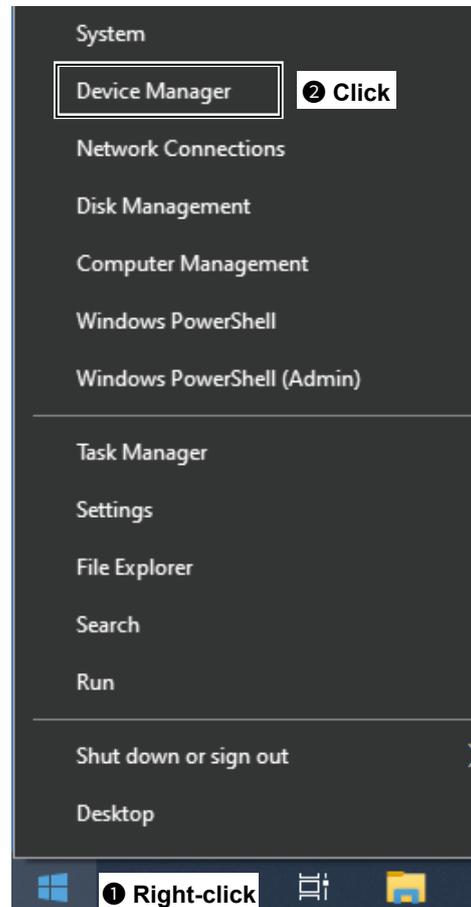
12. Double-click "Ports (COM & LPT)" on the "Device Manager" screen.

> Network adapters
> Ports (COM & LPT)   **Double-click**
> Communications Port (COM1)
> IC-705 Serial Port A (CI-V) (COM5)
> IC-705 Serial Port B (COM4)
> Print queues
> Processors
> Software devices
> Sound, video and game controllers
> Storage controllers
> System devices
> Universal Serial Bus controllers
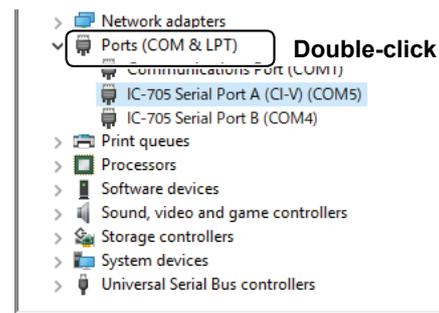
- When the driver is completely installed, "IC-705 Serial Port A (CI-V) (COM✱)" is displayed. The screen is an example of the USB serial COM port number "5."

- The COM port number may differ, depending on the PC environment.
- If "!" or "×" is displayed on the "Device Manager" screen, the driver may not correctly be installed. In such a case, uninstall the USB driver, and then reinstall it.

4. FOR YOUR REFERENCE

After the PC and radio are connected, you can remotely control the radio using the CI-V commands.
The radio has a conversion function between USB and Serial.

4-1 COM Port setting

To change the COM Port number setting after you have installed the USB driver, connect the radio to the PC first, and then turn ON the device.

1. Right-click Windows icon, and then click [Device Manager].

System
Device Manager ❷ Click
Network Connections
Disk Management
Computer Management
Windows PowerShell
Windows PowerShell (Admin)
Task Manager
Settings
File Explorer
Search
Run
Shut down or sign out
Desktop
❶ Right-click
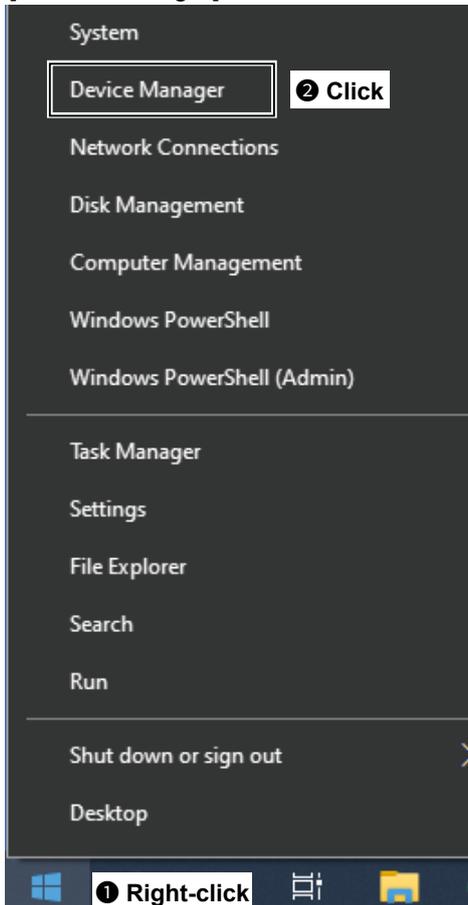
2. Right-click "IC-705 Serial Port A (CI-V) (COM✻)," and then click "Properties."

The COM port number is displayed instead of "✻." If the radio has two COM ports, two COM port numbers are displayed.

> Network adapters
❶ Right-click
Communications Port (COM1)
IC-705 Serial Port A (CI-V) (COM5)
IC-705 Serial Port B (CO
Update Driver Software...
> Print queues   Disable
> Processors   Uninstall
> Software devices
> Sound, video and game co ❷ Click ardware changes
> Storage controllers   Properties
> System devices
> Universal Serial Bus controllers
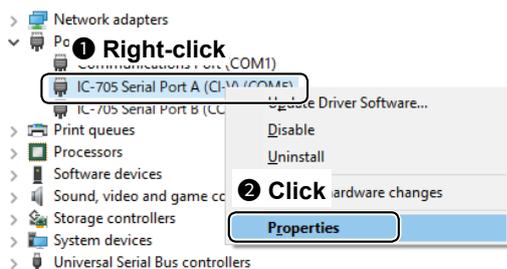
3. Click the [Port Settings] tab, and then click <Advanced...>.

IC-705 Serial Port A (CI-V) (COM5) Properties
General Port Settings Driver Details Events Power Management
❶ Click
Bits per second: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None
Advanced... Restore Defaults
❷ Click
OK Cancel
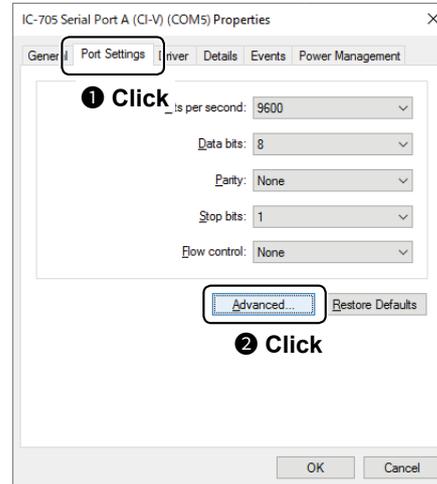
4. Select the COM port number, and then click <OK>.

Advanced Settings for COM5
☑ Use FIFO buffers (requires 16550 compatible UART)   ❷ Click OK
Select lower settings to correct connection problems.   Cancel
Select higher settings for faster performance.   Defaults
Receive Buffer: Low (1)   High (14) (14)
Transmit Buffer: Low (1)   High (16) (16)
❶ Select
COM Port Number COM5
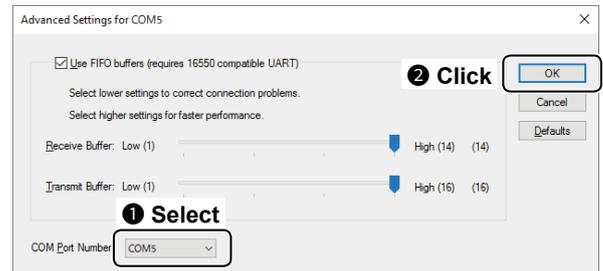
5. Click <OK> to close the screen.

IC-705 Serial Port A (CI-V) (COM6) Properties
General Port Settings Driver Details Events Power Management
Bits per second: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None
Advanced... Restore Defaults
Click
OK Cancel
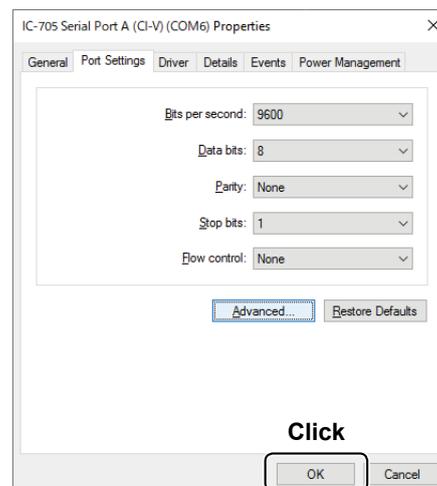
After changing the COM port number, you may not be able to immediately use the selected COM port number.
In this case, disconnect the USB cable once, and then reconnect the cable.

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4-2 Uninstalling the driver

The displayed dialogs or indications may differ slightly from the following instructions, depending on your system version and settings.

1. Click the Windows icon on the taskbar, then click the [Setting] icon.

2. Click [Apps].
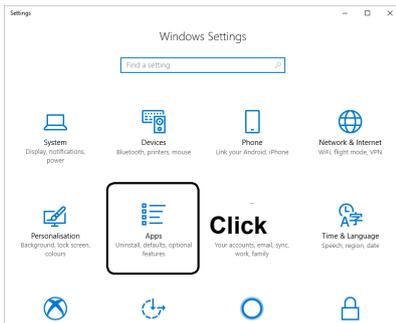
3. Click "Icom USB Serial Port Driver."
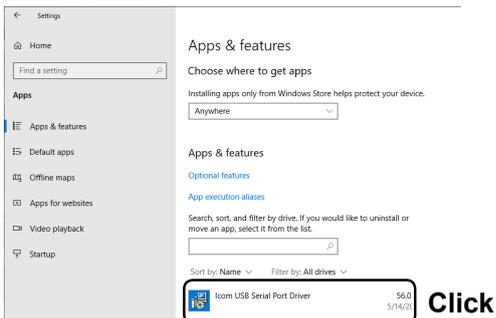
4. Click <Uninstall>.
   • When the "User Account Control" dialog is displayed, click <Continue>.
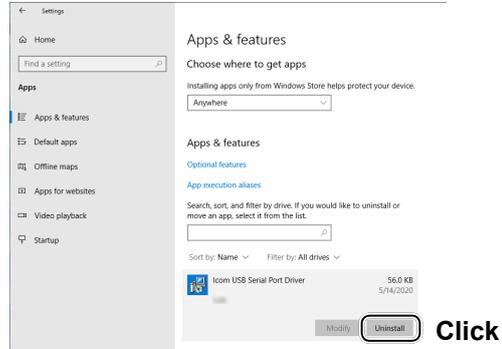
5. Follow the instructions on the screen to uninstall.

4-3 Audio considerations

• For modulation input from the PC, the radio's USB port must be set as the modulation input source connector. You can set the modulation input source connector in the radio's Set mode, or using CI-V system commands. See the instruction manual of your radio for details.
• If you want to monitor the received audio through the PC's speaker or use the audio from the PC's microphone as the modulation input, see the instruction manual of your audio software.