o ICOM

USB DRIVER

You can set up an Icom radio by connecting it to a PC through a USB cable. Please read this installation guide before installing the USB driver. 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.

TABLE OF CONTENTS

 1. OVERVIEW
 1

 2. PRECAUTIONS
 2

 Before installation
 2

 Before connecting to a PC
 2

 Important
 2

 After installation
 2

 About compatible radios
 2

3. DRIVER INSTALLATION...... 3

- 4. FOR YOUR REFERENCE7
 - 4-1 COM Port setting7

 - 4-3 Audio considerations 10

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:

- Icom is not responsible for problems using a PC with one of the above OSs installed.
- If you want to use it on Windows 11, please install the driver for Windows 10.

Cable



NOTE:

- 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.
- Purchase the proper USB cable according to your PC's USB port.
- This guide is based on using a radio with a Mini-B type USB port.
- Use a USB cable for data communication. You cannot set up the radio with a cable that is made for charging only.

Microsoft and Windows are trademarks of the Microsoft group of companies.

All other products or brands are registered trademarks or trademarks of their respective holders.

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand, and/or other countries.

2. PRECAUTIONS

Before installation

- When installing the driver, confirm Windows has completed its startup, and then log in as the administrator.
- Confirm no other applications are running.
- When a previous version driver is installed on your PC, the driver name "Silicon Laboratories CP210x USB to UART Bridge (Driver Removal)" is displayed on the Control Panel screen, as shown below. In this case, uninstall it before installing this driver.
- If the earlier version "Windows Driver Package

 Silicon Laboratories Inc. (silabser) Ports" is
 installed, uninstall it manually before installing the
 latest driver.

See "Uninstalling the driver" on page 9 for details.



(Windows 10 screen is shown.)

Before connecting to a PC

The USB driver is not supported by the automatic recognition system, so **NEVER** connect the USB cable between the radio and the PC until AFTER the USB driver has been installed.

See "Driver installation" on page 3 for details.

- Once the driver is 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.

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.

After installation

• Uninstalling the USB driver

You cannot uninstall the USB driver for each individual unit. After uninstalling the USB driver, none of the radios that require this driver can be operated with the PC.

When another radio is connected

A COM port number is automatically added after turning ON the device.

About compatible radios

The radios that require this driver are shown on the lcom website.

https://www.icomjapan.com/support/

3. DRIVER INSTALLATION

Windows 10

NOTE:

- **NEVER** connect the USB cable between the radio and the PC until AFTER the USB driver has been installed. Disconnect the cable, if connected, before starting the USB driver installation.
- This USB driver is not supported by the automatic recognition system.
- ① The displayed dialog, indications, or operations may differ slightly from the following instructions, depending on your system version and settings.
- 1. Confirm that the radio and PC are not connected.
- 2. Double-click the USB driver installer in the "Win10" folder.
 - If you want to install to the 32 bit version OS, doubleclick "CP210xVCPInstaller_x86.exe."
 - If you want to install to the 64 bit version OS, doubleclick "CP210xVCPInstaller_x64.exe."



3. When the "User Account Control" dialog is displayed, click <Yes>.



4. When the install screen is displayed, click

<Next>.



• If the "License Agreement" dialog is displayed, read the agreement, and click the radio button next to "I accept this agreement," and then click <Next>.

5. Windows starts installing the driver.



 After the installation has completed, click <Finish>.

Device Driver Installation Wizar	d	
	Completing the De Installation Wizard	vice Driver 1
	The drivers were successfully in	stalled on this computer.
	You can now connect your devi came with instructions, please re	ice to this computer. If your device and them first.
	Driver Name	Status
	✓ Silicon Laboratories (sila	Ready to use
	< <u>B</u> ack	Finish Cancel

Solution on the next page.

Windows 10 (Continued)

- 7. 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.



- 8. The installation icons are displayed on the taskbar shown below, then Windows starts installing the driver.
 - The USB audio driver is also automatically installed.



9. After the driver installation has completed, the installation icons disappear.

• Depending on your system version and settings, you may be prompted to restart the PC. In this case, follow the instructions on the screen. After the driver installation has been completed, confirm the port connection and port number.

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



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



- When the driver is completely installed, "Silicon Labs CP210x USB to UART Bridge (COM*)" is displayed. The screen shows the USB serial COM port number "3."
 - The COM port number is displayed instead of "*." If the radio has two COM ports, two COM port numbers are displayed.
 - Depending on the PC environment, the COM port number may differ.
 - If "!" or "×" is displayed on the "Device Manager" screen, the driver may not be properly installed. In such a case, first uninstall the USB driver, then reinstall it.

3. DRIVER INSTALLATION

Windows 8.1

NOTE:

- **NEVER** connect the USB cable between the radio and the PC until AFTER the USB driver has been installed. Disconnect the cable, if connected, before starting the USB driver installation.
- This USB driver is not supported by the automatic recognition system.
- ① The displayed dialog, indications, or operations may differ slightly from the following instructions, depending on your system version and settings.
- 1. Confirm that the radio and PC are not connected.
- 2. Double-click the USB driver installer in the "Win7_81_10" folder.
 - If you want to install to the 32 bit version OS, doubleclick "CP210xVCPInstaller_x86.exe."
 - If you want to install to the 64 bit version OS, doubleclick "CP210xVCPInstaller_x64.exe."



3. When the "User Account Control" dialog is displayed, click <Yes>.

۲	User Account Control	×
Do yo chang	u want to allow the following program to mak ges to this computer?	e
	Program name: Driver Package Installer Verified publisher: Silicon Laboratories Inc. File origin: CD/DVD drive Click	
Show <u>d</u> eta	ils <u>Y</u> es <u>N</u> o	
	Change when these notifications a	ppear

4. When the install screen is displayed, click <Next>.



5. The "License Agreement" dialog is displayed. Read the agreement, and click the radio button next to "I accept this agreement," and then click <Next>.

CP210x USB to UART Bridge Driver Installer	
License Agreement	
To continue, accept the following license agreement. To read the entire agreement, use the scroll bar or press the Page Down Key.	
LICENSE AGREEMENT SILIOON LABS VOP DRIVER IMPORTANT: READ CAREFULLYBEFORE AGREEING TO TERMS	^
THIS PRODUCT CONTAINS THE SILICON LARS YOP RRIVER AND INSTALLER PROGRAMS AND OTHER THIRD PARTY SOFTWARE.TOGETHER THESE PRODUCTS ARE REFERED TO AS THE MICENSED SOFTWARE USE OF THE LICENSED SOFTWARE IS SUBJECT TO THE TEMPS OF THIS LICENSE AGREEMENT.	~
(e) [] ::cept this agreement] Save As Print 2on't socept this agreement 2 Click	
	ancel

6. Windows starts installing the driver.

Device Driver Installation Wizard
The drivers are now installing
Please wait while the drivers install. This may take some time to complete.
< Back Next > Cancel

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

Dev	rice Driver Installation W	/izard
	Completing the De Installation Wizar	evice Driver d
	The drivers were successfully in	stalled on this computer.
	You can now connect your dev came with instructions, please re	ice to this computer. If your device ead them first.
	Driver Name	Status
	Silicon Laboratories (sila	Ready to use
		<u>Click</u>
	< <u>B</u> ack	Finish Cancel

Solution on the next page.

3. DRIVER INSTALLATION

Windows 8.1 (Continued)

- ① 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.



8. The installation icons are displayed on the taskbar shown below, then Windows starts installing the driver.

• The USB audio driver is also automatically installed.



- 9. After the driver installation has completed, the installation icons disappear.
 - Depending on your system version and settings, you may be prompted to restart the PC. In this case, follow the instructions on the screen.

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

- 10. Click the folder icon on the taskbar.
 - Click
- 11. Right-click "This PC," and then click "Properties."



- 12. Click [Device Manager].
 - The "Device Manager" screen is displayed.



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



- When the driver is completely installed, "Silicon Labs CP210x USB to UART Bridge (COM*)" is displayed. The screen shows the USB serial COM port number "3."
 - The COM port number is displayed instead of "*." If the radio has two COM ports, two COM port numbers are displayed.
 - Depending on the PC environment, the COM port number may differ.
 - If "!" or "×" is displayed on the "Device Manager" screen, the driver may not be properly installed. In such a case, first uninstall the USB driver, then reinstall it.

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. So, if the radio is connected to a PC with the USB cable, the CT-17 is not required for the Icom Communications Interface-V (CI-V) operation.

The [USB] port and [REMOTE] jack can simultaneously be used. So CI-V operation can be done from a PC, even if an Icom CI-V product, such as a transceiver, a receiver, or a linear amplifier (IC-PW1/EURO), is connected to the [REMOTE] jack of your radio.

4-1 COM Port setting

To change the COM Port number setting, connect the radio to the PC and then turn ON the radio power after the driver installation has been completed.

Windows 10

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

System
Device Manager 2 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
🗧 🕕 Right-click 🗏 🥫

2. Right-click "Silicon Labs CP210x USB to UART Bridge (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.



3. Click the [Port Settings] tab, then click <Advanced...>.

Silicon Labs CP210x USB to UART Bridge (COM3) Properties	×
Gener I Port Settings I river Details Events Power Management	
O Click sper second: 9600 V	
Data bits: 8 ~	
Parity: None ~	
Stop bits: 1 ~	
Elow control: None ~	
Advanced] Eestore Defaults	
OK Cancel	

4. Select the COM port number, then click <OK>.

Advanced Settings for COM3	×
☑ Liee FIFO buffers (requires 16550 compatible UART) Select lower settings to correct connection problems. Select higher settings for faster performance.	Click
Receive Buffer: Low (1)	High (14) (14)
Iransmit Buffer: Low (1)	High (16) (16)

5. Click <OK> to close the screen.

Silicon La	abs CP210x US	B to UA	RT Bridg	e (COM2) Properties		×
General	Port Settings	Driver	Details	Events	Power Mana	gement	
		<u>B</u> its pe	er second	9600		~	
			<u>D</u> ata bits	8		~	
			<u>P</u> arity	None		\sim	
			Stop bits	: 1		~	
		<u>F</u> lo	w control	None		~	
			A	lvanced	. <u>R</u> esto	re Defaults	
				(Click		
					ОК	Cancel	1

Windows 8.1

1. Click the folder icon on the taskbar.



2. Right-click "This PC," and then click "Properties."



- 3. Click [Device Manager].
 - The "Device Manager" screen is displayed.



 Right-click "Silicon Labs CP210x USB to UART Bridge (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.



5. Click the [Port Settings] tab, then click <Advanced...>.



6. Select the COM port number, then click <OK>.

Advanced Settings for COM	M3	×
☑ Use FIFO buffers (requires 16550 compatible UART)	2 Click	ОК
Select lower settings to correct connection problems. Select higher settings for faster performance.		Cancel
Receive Buffer: Low (1)	High (14) (14)	
	U High (16) (16)	
COM Port Number		

7. Click <OK> to close the screen.



4-2 Uninstalling the driver

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

Windows 10

1. Click the Windows icon on the taskbar, then click



2. Click [Apps].



 Click "Windows Driver Package - Silicon Laboratories Inc. (silabser) Ports (05/07/2018 10.1.2.2115)."

← Settings	- 🗆 ×
Home	Apps & features
Find a setting	Installing apps
Apps	Choose where you can get apps from. Installing only apps from the Store helps protect your PC and keep it running smoothly.
E Apps & features	Allow apps from anywhere
ES Default apps	Arres 0 fastures
血 Offline maps	Apps & teatures Manage optional features
Apps for websites	Search, sort and filter by drive. If you would like to uninstall or
Video playback	windows driver
	Sort by: Name \checkmark Filter by: All drives $$
	Windows Driver Package - Silicon Laborator Silicon Laboratories Inc. 5/2

- 4. Click <Uninstall>.
 - When the "User Account Control" dialog is displayed, click <Continue>.

Settings	- • ×
Home	Apps & features
Find a setting ρ	Installing apps
pps	Choose where you can get apps from. Installing only apps from the Store helps protect your PC and keep it running smoothly.
Apps & features	Allow apps from anywhere
Default apps	Apps & features
Offline maps	Manage optional features
Apps for websites	Search, sort and filter by drive. If you would like to uninstall or
Video playback	windows driver
	Sort by: Name $ \lor $ Filter by: All drives $ \lor $
	Windows Driver Package - Silicon Laboratories Inc. (silabser) Ports (05/07/2018 10.12.2115) Silicon Laboratories Inc. 5/25/2018
	Modify Uninstal

5. Follow the instructions on the screen to uninstall.

4-2 Uninstalling the driver (Continued)

Windows 8.1

- 1. Point the mouse pointer around the right-bottom corner of the desktop.
 - The charms are displayed on the right of the desktop.



2. Click the "Settings" charm.



3. Click "Control Panel."



4. Click "Uninstall a program."The "Uninstall or Change a Program" menu is displayed.



- Double-click "Windows Driver Package Silicon Laboratories Inc. (silabser) Ports (09/27/2017 6.7.5.1893)."
 - When the "User Account Control" dialog is displayed, click <Continue>.

ß		Pr	ograms and Features			- • ×
e) 🕘 👻 🕆 🧱 > Control Panel > Programs > Programs and Features			v	Ċ	Search Programs and Features 🔑
	Control Panel Home View installed updates	Uninstall or change a program To uninstall a program. select it from the list and then click Uninstall. Change or Repai			pair.	
	Turn Windows features on or off	Organise 💌	Double-click			E • 0
	ĺ	Name Windows Driver Package - Silin	on Laboratories Inc. (silabser) Ports (09/27/2	017 (5.7.5.	1893) Silicon Laboratories Inc.

6. Follow the instructions on the screen to uninstall.

4-3 Audio considerations

[Installed audio player] (Windows standard software, and so on.)

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 the CI-V system. See the instruction manual of your radio for details.

If you 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.