USB DRIVER INSTALLATION GUIDE

Thank you for using the Icom Download Service.

Please read this installation guide before installing the USB driver into your PC that is connected to the IC-7200 with the USB (Universal Serial Bus) cable (third party).

OVERVIEW

When the transceiver is connected to a PC with the USB cable, the following operations can be performed;

- Remote control operation (CI-V: Icom Communication Interface-V) by the PC.
- Modulation input from the PC.
- Received audio output to the PC.



NOTE:

- PC software (third party) may be required. (p. 18)
- The CT-17 CI-V LEVEL CONVERTER is required for remote control operation (CI-V) when the USB cable is not used. See p. 88 in the IC-7200 instruction manual for details.
- The transceiver connection may not be recognized by the PC because of the USB cable length.
- Using the shorter USB cable as possible is rec-
- ommended.

System requirements

- The PC which supports the following OS (Operating System) is required;
- Microsoft[®] Windows Vista[™]
- Microsoft[®] Windows[®] XP
- Microsoft[®] Windows[®] 2000

- NOTE: The U Windo Icom i the PC In this scribe "Wind • The USB driver is not supported for Microsoft® Windows[®] XP (64 bit).
 - · Icom is not responsible for whole performance of the PC that supports above OS.
 - In this installation guide, the above OS are de-
- scribed as "Windows Vista," "Windows XP" and
- "Windows 2000."

Item requirements

USB cable (A-B type/third party)



- PC (with USB 1.1 or 2.0)
- Installed audio player
- PC software (third party)
- See p. 18 for details.

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PRECAUTIONS

Before connecting to the PC

The process of connecting the USB cable (third party) between the transceiver and a PC may differ according to your OS.

See the "Driver installation" on pgs. 4 to 11 for details.

- After the driver installation is completed, the USB cable can be connected regardless of the OS.
- The USB driver installation is required for each unit, because of the COM port number difference.

Important

- Audio from the USB port may cut out or audio control with the PC software may get late because of the PC performance (including OS, environment, etc.)
- Audio from the USB port may cut out when the CPU load increases.
- The audio device settings of OS may be changed when the transceiver is connected to the PC.
- Icom is not responsible for proper operation when connecting the transceiver and the PC through an USB hub.

For IC-PCR1500/IC-PCR2500 user

USB driver on the supplied CD

The file that is included on the supplied CD with the IC-PCR1500/IC-PCR2500 is the same as the download file from Icom HP. So, the USB driver installation can also be performed with the supplied CD.

USB driver uninstallation

If the USB driver uninstallation is performed, the connected unit (when the USB driver is installed) or IC-PCR1500/IC-PCR2500 cannot be used.

USB driver re-installation

The USB driver installation is required for each unit, because of the COM port number difference. See the IC-PCR1500/IC-PCR2500 instruction manual when installing the USB driver with the supplied CD.

PROCEDURE

Refer to the following steps for the USB driver installation.

Before installing the USB driver, log in as the administrator and quit all applications when Windows is running.

Overview	System requirementsItem requirements	(p. 1) (p. 1)
Precautions	 Before connecting to the PC Important For IC-PCR1500/IC-PCR2500 user 	(p. 2) (p. 2) (p. 2)
↓ Preparing	Before installing the USB driver	(p. 3)
Driver installation	• Windows Vista • Windows XP • Windows 2000	(p. 4) (p. 6) (p. 9)
COM Port Confirmation	• Windows Vista • Windows XP/Windows 2000	(p. 12) (p. 12)
Driver uninstallation	• Windows Vista • Windows XP/Windows 2000	(p. 13) (p. 13)
For your reference	 COM Port setting About audio Specifications 	(p. 14) (p. 16) (p. 19)

PREPARING

Before installing the USB driver

Icom HP gives the USB driver download service. Before installing the USB driver, download the following compressed file.

• USB driver (File name: 7200UsbDrv_v100.zip)

Icom is not responsible for any damage or lack of data resulting from the use of the USB driver.

Windows Vista

NOTE:

- NEVER connect the transceiver to the PC with the USB cable (third party) until the USB driver installation has been completed.
- The USB driver for Windows Vista does not support the automatic recognition system.

- The displayed dialogue boxes, indications or oper-ations may differ slightly from the following instruc-tions according to your system conditions or envi-ronment.
- 1) Make sure that the transceiver is not connected to the PC.
- 2 Start up Windows.

• Quit all other application if running.

- 3 Double-click the "WinVista" folder.
 - The folder construction: "7200UsbDrv_v100" → "Driver" → "WinVista"



(4) Double-click the "CP210xVCPInstaller.exe" to start up the USB driver installer.

				and the	
🕒 🕗 🖉 🕨 7200UsbDrv_v1	00 . Driver . WinVista .			earch	Q
🐚 Organize 👻 🏢 Views 👻	🕙 Burn to disc	_			0
Produte Links	Name File Council of the D d d metropolytochemate Problem Prob	Size sc (8) 202 KB 12 KB 12 KB 12 KB 12 KB 210xVC 210xVC puble	Type File Folder File Folder Application Configuration Set Configuration Set Security Catalog Setup Information Security Catog Setup Information Security Catog Security Catog	Date modified 7/8/2008 11:41 AM 7/8/2008 11:41 AM 3/1/2007 12:12 PM 3/1/2007 12:12 PM 3/1/2007 12:12 PM 3/1/2007 12:12 PM	Location Files Currently on Files Currently on Files Currently on Files Currently on Files Currently on Files Currently on Files Currently on
> 🎉 Folder	+ 4 (m		- ,
8 items					1

(5) "A program needs your permission to continue" dialogue box appears as below. Click [Continue].

User Account (Control		×
🕐 A pro	🕡 A program needs your permission to continue		
If you started	I this program, continue.		
<u></u>	Driver Installation Utility		
D	Silicon Laboratories	Click	
🕑 <u>D</u> etails		Continue Cance	el
User Account Control helps stop unauthorized changes to your computer.			

6 Verify the installation location, then click [Install].

Silicon Laboratories CP210x USB to UAR	T Bridge Driver Installer
Silicon Laboratories Silicon Laboratories CP210x USB to U	IART Bridge
Installation Location:	Driver Version 4.40
C:\Program Files\Silabs\MCU\CP210x\	Click
Change Instal Location	Install Cancel

(1) Windows starts scanning for the system, then starts installing the USB driver.



8 After the installation is completed, click [OK]. • Restarting the PC is recommended.



Windows Vista (Continued)

- ④ After restarting the PC, connect the transceiver to the PC with the USB cable (third party) as shown below.
 - Be sure to connect the USB cable correctly and not upside down.



① Turn the transceiver power ON."Installing device driver software" appears as below.



①After the dialogue appears as below, USB driver installation has been completed.



Windows XP

NOTE:

BE SURE to connect the transceiver to the PC with the USB cable (third party) before installing the USB driver.

- The displayed dialogue boxes, indications or oper-ations may differ slightly from the following instruc-tions according to your system conditions or envi-ronment.

- ①Make sure that the transceiver is not connected to the PC.
- (2) Start up Windows.
 - Quit all other application if running.
- 3 Connect the transceiver to the PC with the USB cable (third party) as shown below.
 - Be sure to connect the USB cable correctly and not upside down.



④ Turn the transceiver power ON. • "Found New Hardware" appears as below.



(5) The "Welcome to the Found New Hardware Wizard" will come up as below. Select "No, not this time," then click [Next>].



6 Select "Install from a list or specific location (Advanced)," then click [Next>].

Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard	
	This wizard helps you install software for:	
	CP2102 USB to UART Bridge Controller	
- And	If your hardware came with an installation CD or floppy disk, insert it now.	
	What do you want the wizard to do?	
Selec	Install from a list or specific location (Advanced)	
	Click Next to continue. Click	

⑦ Select "Search for the best driver in these locations." then select "Include this location in the search," and click [Browse].

	Found New Hardware Wizard
	Please choose your search and installation options.
Sel	ect 💽 Search for the best driver in these locations.
	Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
	Select (VI Include this Igocation in the search:
	Biowse
	Don't search. I will choose the driver to install.
	Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
	Cancel

Windows XP (Continued)

 (8) Select the "Win" folder, then click [OK].
 • The folder construction: "7200UsbDrv_v100" → "Driver" → "Win"

Browse For Folder	? 🛽
Select the folder that co	ntains drivers for your hardware.
🞯 Desktop	~
🗉 🚞 My Documents	
😑 😼 My Computer	
😑 🥯 Local Disk	(C:)
🖃 🚞 7200UsbD	rv_v100
🖃 🛅 Deissae	
- I I I I I I I I I I I I I I I I I I I	Select
	nme 🗸
To view any subfolders.	click Click boye.
,	
	OK Cancel

9 Click [Next>].



10 The Wizard starts searching for the driver and shows the dialogue below during search.



 After the driver is found, the "Hardware Installation" dialogue box appears as below.

Click [Continue Anyway] to start the installation.



12 Windows starts installing the USB driver.

und New Hardware Wizard			
Please wait while the wizard installs the	e software		1
CP210x USB Composite Device			
Ď	6	Þ	
słabunin2k.exe To C:\WIND0WS\system32			
		News	Coursel

(3) After the installation is completed, click [Finish].



(4) After clicking [Finish], the dialogue appears as below.



(5) The "Welcom to the Found New Hardware Wizard" will come up again to install the USB serial port driver.

Select "No, not this time," then click [Next>].

Found New Hardware Wiz	ard
	Welcome to the Found New Hardware Wizard Windows will seech for current and updated software by looking on you compare and updated software by looking on you compare the hardware installation CD or on the Vindows Update to search for software? Can Windows connect to Windows Update to search for where now and every time I connect a device Orac this time Click Next to continue. Click

Windows XP (Continued)

(6) Select "Install from a list or specific location (Advanced)," then click [Next>].



⑦ Select "Search for the best driver in these locations." then select "Include this location in the search:", and click [Browse].



- 18 Select the "Win" folder, then click [OK].
 - The folder construction: "7200UsbDrv_v100" → "Driver" → "Win"



19 Click [Next>].



⁽²⁾ The Wizard starts searching for the driver and shows the dialogue below during search.

Found New H	Found New Hardware Wizard		
Please wa	it while the wizard searches		
P.	CP2102 USB to UART Bridge Controller		
	8		
	Cancel		

② After the driver is found, the "Hardware Installation" dialogue box appears as below.

Click [Continue Anyway] to start the installation.

Hardwa	ire Installation
!	The software you are installing for this hardware: CP210x USB to UART Bridge Controller
	has not passed Windows Logo testing to verify its compatibility with Windows XP. [Tell me why this testing is important.]
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendro for software that has passed Windows Logo testing.
	Click
	Continue Anyway

22 Windows starts installing the USB driver.



23 After the installation is completed, click [Finish].

Found New Hardware Wizard		
	Completing the Found New Hardware Wizard	
	The wizard has finished installing the software for:	
	CP210x USB to UART Bridge Controller	
	Click Finish to close the wizard.	
	CIICK	

After clicking [Finish], the dialogue appears as below.
Restarting the PC is recommended.



Windows 2000

NOTE:

BE SURE to connect the transceiver to the PC with the USB cable (third party) before installing the USB driver.

- The displayed dialogue boxes, indications or operations may differ slightly from the following instrucations ma tions acc ronment. tions according to your system conditions or envi-
- 1) Make sure that the transceiver is not connected to the PC.
- 2 Start up Windows.
 - Quit all other application if running.
- 3 Connect the transceiver to the PC with the USB cable (third party) as shown below.
 - · Be sure to connect the USB cable correctly and not upside down.



(4) Turn the the transceiver power ON. • "Found New Hardware" appears as below.



(5) The "Found New Hardware Wizard" will come up as below.

Click [Next>].



6 Select "Search for a suitable driver for my device (recommended)," then click [Next>].

Fou	nd New Hardware Wizard
	Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
	This wizard will complete the installation for this device:
	CP2102 USB to UART Bridge Controller
	A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
	What do you want the wizard to do?
Sele	ct (Search for a suitable driver for my device (recommended)
	C Display a list of the known drivers for this device so that I can choose a specific driver
	Click
	< <u>Back</u> Cancel

⑦ Select "Specify a location," then click [Next>].



8 Click [Browse...].



Windows 2000 (Continued)

- (9) Select "slabbus.inf" in the "Win" folder, then click [Open].
 - The folder construction: "7200UsbDrv_v100" → "Driver" → "Win"



10 Click [OK].

Found Net	w Hardware Wizard	×	
2	Insert the manufacturer's installation disk into the drive selected, and then click OK.	OK J	Click
	Copy manufacturer's files from: F:\7200UsbDrv_v100\Driver\Win	Browse	

① When the driver is found, the following dialogue is displayed.

Click [Next>] to start the installation.

Friend New Hardware Witzerd Driver Files Search Results The wized has finished searching for driver fles for your hardware device. Windows found a driver for the following device: OP 102 USB to UART Bridge Controller Windows found a driver for this device. To install the driver Windows found, click Next. Windows found, click Next. OP 102 USB to UART Bridge Controller Windows found, a driver for this device. To install the driver Windows found, click Next. OP 11/2200.sbdrdw_v100/driver/win/slabbus inf Click Click

⁽¹⁾ After the installation is completed, click [Finish].



① The "Found New Hardware Wizard" appears again. Click [Next>].



Select "Search for a suitable driver for my device (recommended)," then click [Next>].

Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
CP2102 USB to UART Bridge Controller
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Select Search for a suitable driver for my device (recommended)
C Display a list of the known drivers for this device so that I can choose a specific driver
Click
< <u>Back</u> Cancel

15 Select "Specify a location," then click [Next>].

Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
CP2102 USB to UART Bridge Controller
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-BOM drives
Select (Specify a location
<u>microsor windows</u> Update Click
< <u>Back</u> Cancel Cancel

Windows 2000 (Continued)

16 Click [Browse...].

ind Ne	w Hardware Wizard	>
<u>8</u>	Insert the manufacturer's installation disk into the drive selected, and then click DK.	OK Cancel
	Copy manufacturer's files from:	Click
	C:\WINDOWS\Deskton	Browse

- ⑦ Select "slabw2k.inf" in the "Win" folder, then click [Open].
 - The folder construction: "7200UsbDrv_v100" → "Driver" → "Win"



18 Click [OK].

Found Net	W Hardware Wizard X Inset the manufacture's instalation disk into the drive UK selected, and then click OK. Lancet	Click
	Copy manufacture's files from: [F-\7200UsbDrv_100\Oriver\Win I Errowse]	

(9) When the driver is found, the following dialogue is displayed.

Click [Next>] to start the installation.

Found New Hardware Wizard
Driver Files Search Results The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
CP2102 USB to UART Bridge Controller
Windows found a driver for this device. To install the driver Windows found, click Next.
f:\7200usbdrv_v100\driver\win\slabw2k.inf
Click

20 After the installation is completed, click [Finish].Restarting the PC is recommended.

Found New Hardware Wizard	
	Completing the Found New Hardware Wizard
	CP210x USB to UART Bridge Controller
	Windows has finished installing the software for this device.
	To close this wizard, click Finish. Click
	< Back Finish Cancel

COM PORT CONFIRMATION

After the driver installation is completed, confirming the driver availability and the port number is recommended.

Windows Vista

- 1 Start up Windows.
- (2) Right click "Computer," then select "Properties." • "Computer" is available in <Start> menu.
- (3) "System" screen appears as below. Click [Device Manager].

I, Click Device Manager Remote settings System protection Advanced system settings	View basic information about your computer Windows edition Windows Vista [™] Ultimate Copyright © 2006 Microsoft Corporation. All rights reserved.
--	--

④ In case "User Account Control" dialogue box appears as below, click [Continue].



- (5) "Device Manager" screen appears. Click "
 "
 of "Ports (COM&LPT)."
- 6 Confirm "CP210x USB to UART Bridge Controller (COM *)" is displayed.
 - If "!" or "x" indicator is displayed on the "Device Manager" screen, the driver may not be installed properly. Un-install the USB driver then reinstall in such cases.
 - "*" is the COM port number, that is used for the communication setting with the utility software.



2 Check the COM port number. (In this example, the USB serial COM port number is "8.")

Windows XP

For Windows 2000: Refer to the following instructions because the operations of Windows 2000 are similar to Windows XP.

- 1) Start up Windows.
- 2 Right click "My Computer," then select "Properties." • "My Computer" is available in <Start> menu.
- ③ "System Properties" screen appears as below. Click [Hardware] tab and then click [Device Manager].

			Click	<u>.</u>
System F	Restore	Auto		Remote
General	Computer N	lame	Hardware	Advanced
2000 MC	inager The Device Manag	per lists all th	e hardw	alled
	nager The Device Manag on your computer. L properties of any de	jerlists all th Jse the De svice.	vice Mar Cl	ick

- (4) "Device Manager" screen appears. Click "
 "
 of "Ports (COM&LPT)."
- 5 Confirm "CP210x USB to UART Bridge Controller (COM *)" is displayed.
 - If "!" or "x" indicator is displayed on the "Device Manager" screen, the driver may not be installed properly. Un-install the USB driver then reinstall in such cases.
 - **" is the COM port number, makes and communication setting with the utility software. "*" is the COM port number, that is used for the



2 Check the COM port number. (In this example, the USB serial COM port number is "8.")

The displayed dialogue boxes or indications may differ slightly from the following instructions according to your system conditions, or environment.

Windows Vista

- 1 Start up Windows.
- (2) Select the "Control Panel" in the Start menu. • The control panel appears as shown in the next step below.
- ③ Click the "Uninstall a program."
 - The "Uninstall or Change a Program" menu appears.



- (4) Double-click "Silicon Laboratories CP210x USB to UART Bridge (DriverRemoval)."
- (5) In case "User Account Control" dialogue box appears as below, click [Continue].



(6) The "Confirm Uninstall" appears.

Click [Uninstall] to uninstall the program from the PC.

The uninstallation starts.



 After the uninstall is completed, click [OK]. • Restarting the PC is recommended.



Windows XP

For Windows 2000: Refer to the following operations of Window XP. Refer to the following instructions because the operations of Windows 2000 are similar to Windows

- 1 Start up Windows.
- 2 Select the "Control Panel" in the Start menu.
 - The control panel appears as shown in the next step below.
- ③ Click the "Add or Remove Programs."
 - The "Add or Remove Programs" menu appears.

Control Panel	۲	Pick a category
See Also	۲	Appearance and Themes Printers and Other Hardware
 Windows Update Help and Support Other Control Panel 		Network and Internet
Options		Add or Remove Programs
		So De Add or Remove Programs

4 Select "CP210x USB to UART Bridge Controller," then click [Change/Remove].

🐻 Add or Re	move Programs
Chappe or	Currently installed programs: Show upgates Sort by: Name
Remove Programs	<u></u>
Add New	
Programs	15 CP210x USB to UART Bridge Controller
5	To change this program or remove it from your computer, click Change/Remove
Add/Remove <u>Windows</u> Components	

- 5 The "Ready to uninstall CP210x USB to UART Bridge Controller Driver?" appears.
 - Click [Yes] to uninstall the program from the PC. • The uninstallation starts.

Notification 🛛 🛛 🛛 🛛				
?	Ready to uninstall CP210x USB to UART Bridge Controller Driver?			

6 After the uninstall is completed, click [OK.] · Restarting the PC is recommended.

	Notification 🔀
	Uninstall Successfull
Clic	K OK

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FOR YOUR REFERENCE

When the transceiver is connected to a PC with the USB cable (third party), remote control operation can be performed with the CI-V command.

The IC-7200 has the USB-Serial convert function, so the PC recognizes the connected transceiver as COM port and the CI-V control software can be used.

Simultaneous use of the [USB] and [REMOTE] jacks are available.

COM Port setting

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

Windows Vista

- 1) Start up Windows.
- (2) Right click "Computer," then select "Properties."
 "Computer" is available in <Start> menu.
- (3) "System" screen appears as below. Click [Device Manager].



④ In case "User Account Control" dialogue box appears as below, click [Continue].



(5) "Device Manager" screen appears.

Right click "CP210x USB to UART Bridge Controller (COM *)" and then click "Properties."

*" is the COM port number, that is used for the communication setting with the utility software.

e Action View Help	
🔿 📅 🖸 🔽 🖬 👧 😰 🍕 🚱	
ANUALG-PC	
Disk drives Jisplay adapters Div CD POM driver	
Human Interface Devices Jose ATA/ATAPI controllers	
 IEEE 1394 Bus host controllers Explored and the second secon	
⊕ ¹ / ₂ Mice and other pointing devices ⊕ ¹ / ₂ Monitors	
 Wetwork adapters Metwork adapters 	
Ports (COM & L Right-click	
CP210x USB to UART Bridge Controller (Update Driver Software
Processors	Disable
Sound, video and game controllers	Uninstall
System devices	Scan for hardware changes
Universal Serial Bus controllers	Properties
🔄 🟺 Universal Serial Bus controllers	rioperties

6 Click [Port Settings] tab, then click [Advanced...].

General For Settings	Inver Details
Click	Bits per second: 9600 🗸
	Data bits: 8
	Parity: None
	Stop bits: 1
	Flow control: None
	Advanced
	Click

Set the desired COM port number, then click [OK].

Select lower settings to come		C	Click (ОК		
Select higher settings for fast	er performance.	ina.				Cance
Receive Buffer: Low (1)			— Q	High (14)	(14)	Default
Iransmit Buffer: Low (1)			-0	High (16)	(16)	
	_					

(8) Click [OK] to close the screen.

General Port Set	tings Driver	Details		
	<u>B</u> its p	er second:	9600	-
		<u>D</u> ata bits:	8	¥
		<u>P</u> arity:	None	*
		<u>Stop bits:</u>	1	¥
	E	ow control:	None	
		Adv	vanced	<u>R</u> estore Default
			CI	ick

FOR YOUR REFERENCE

COM Port setting (Continued)

Windows XP

For Windows 2000: Refer to the following instructions because the operations of Windows 2000 are similar to Windows XP.

- ① Start up Windows.
- 2 Right click "My Computer," then select "Properties." • "My Computer" is available in <Start> menu.
- ③ "System Properties" screen appears as below. Click [Hardware] tab and then click [Device Manager].



(4) "Device Manager" screen appears.

Right click "CP210x USB to UART Bridge Controller (COM*)" and then click "Properties."

"*" is the COM port number, that is used for the communication setting with the utility software.



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



6 Set the COM port number if desired, then click [OK].

Advanced Settings for COM9	? 🛛
Use FIFO buffers (requires 19550 compatible UART) Select lower settings to correct connection problems. Select holder settings for faster performance.	Click Cancel
Receive Bulfer: Low (1)	
Iransmit Buffer: Low (1)	
COM Port Number	

Click [OK] to close the screen.

:P210x US	B to UART	「 Bridg	e Contro	ller (COM	8) Propert	?
General F	ort Settings	Driver	Details			
		<u>B</u> its pe	er second:	115200		~
			<u>D</u> ata bits:	8		*
			Parity:	None		*
			<u>S</u> top bits:	1		*
		Elo	w control:	None		~
			<u>A</u> d	vanced	<u>R</u> estore D	efaults
				Cli	ck	
					IK [Cancel

About audio

When the transceiver is connected to a PC with the USB cable (third party), the following operations can be performed;

• Received audio output to the PC.

• Modulation input from the PC.

The set mode item 'Modulation input (Data OFF)' or 'Modulation input (Data ON)' must be set as "U" (USB) for modulation input from the PC. See p. 17 on this installation guide or p. 77 on the IC-7200 instruction manual for details of settings.

[Received audio output to the PC]

The received audio output format

The received audio output format from the USB jack is listed as below.

The received audio output	The number of data bit	16-bit
	Sampling rate*	8/11.025/16/22.05/32/44.1/48 kHz
	The number of channel	Monaural (Stereo: The same audio signals are output from both L/R.)

* The sampling rate other than those above can be used according to the application.

The received audio output

The same audio signals are output from the USB jack and the ACC socket.

- The received audio is always output regardless of the squelch condition (open/close).
- (The beep tones and the voice synthesizer announcements are not output).
- The received audio output level cannot be adjusted with the [AF] control.

Operating mode

The modulation input can be used when SSB (LSB/USB), SSB data (LSBD/USBD), AM and AM data (AMD) mode is in use.

About audio (Continued)

The modulation input settings

To input the audio signal from the USB jack of the transceiver, set the modulation input connector as "USB" in the set mode item 'Modulation input (Data OFF)' or 'Modulation input (Data ON)', or CI-V system (command).

• When the data mode is OFF (SSB or AM mode is in use) <Set mode>



<CI-V system>

Send the command "FE FE 76 E0 1A 03 23 03 FD"* to the transceiver.

JŚB

*The transceiver's address is described as "76" and the controller's address is described as "E0" for examples in this guide.

• When the data mode is ON (SSB data or AM data mode is in use) <Set mode>



<CI-V system>

Send the command "FE FE 76 E0 1A 03 24 03 FD"* to the transceiver.

USB

*The transceiver's address is described as "76" and the controller's address is described as "E0" for examples in this guide.

About audio (Continued)

USB level setting

Set the input modulation level of the USB jack in the set mode item 'USB Level' or CI-V system (command).

<Set mode>



<CI-V system>

Send the command "FE FE 76 E0 1A 03 25 0128 FD"* to the transceiver from the PC.

Input modulation level

• 0000 (0%) to 0255 (100%) can be set as the input modulation level.

*The transceiver's address is described as "76," the controller's address is described as "E0" and input modulation level is described as "0128 (50%)" for examples in this guide.

The modulation input audio format

The modulation input audio format from the USB jack is listed as below.

Modulation input	The number of data bit	16-bit
	Sampling rate*	32/44.1/48 kHz
	The number of channel	Monaural (Stereo: The audio signal from L is input.)

* The sampling rate other than those above can be used according to the application.

[Installed audio player] (Windows standard software, etc.)

When using the audio software (e.g. Windows standard software; Microsoft[®] Sound Recorder, etc.), the following operations can be performed;

- Received audio output to the PC.
- Modulation input from the PC.

PC software (third party) is additionally required when the following operations are performed;

- Monitoring the received audio with the speaker that is connected to the PC.
- Modulation input for the PC microphone's audio.

FOR YOUR REFERENCE (Continued)

Specifications

Connector type	USB B type	
Interface	USB 2.0/1.1	
Power supply	Self power	The PC cannot recognize the transceiver when the power is OFF.
Support OS	Windows Vista	
	Windows XP	
	Windows 2000	
Serial for CI-V	Compliant for CI-V spec.	
	Asynchronous serial	
	Construction (1 bite)	
	Start bit	:1
	Data bit	:8
	Parity bit	: No
	Stop bit	:1
	Speed	: 300/1200/4800/9600/19200 bps
Received audio output	Number of data bit	: 16-bit
	Sampling rate	: 8/11.025/16/22.05/32/44.1/48 kHz
	Number of channel	: Monaural (Stereo: The same audio signals are output from both L/R.)
Modulation input	Number of data bit	: 16-bit
	Sampling rate	: 32/44.1/48 kHz
	Number of channel	: Monaural (Stereo: The audio signal from L is input.)

All stated specifications are subject to change without notice or obligation.

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