

Manual for OS Pre-installed Type

(Windows 11 IoT Enterprise LTSC 2024)

19 inch rack mount type Custom Computers Solution-ePC series

SR4100 Series

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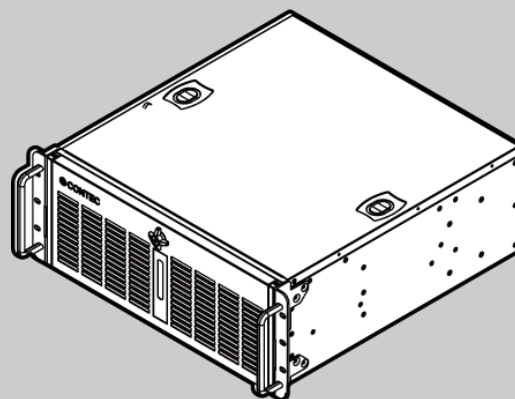


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Introduction

This will inform you of the information you need to know before using this product, such as an overview of the OS equipped with the preinstalled type, the overall configuration of this manual, the various manuals associated with this product, and so on.

1.About the Product

Windows 11 IoT Enterprise LTSC 2024, equipped with the preinstalled type, is the OS for embedded applications. CONTEC's preinstalled types perform customization to build the OS based on a configuration determined in advance.

In this manual you will find basic information on the installed OS, as well as explanations of setup procedures and recovery procedures.

CAUTION

There are functional differences between Windows 11 IoT Enterprise LTSC 2024 and other Windows 11 versions.

Below are the main functions present in other Windows 10 versions but not in Windows 11 IoT Enterprise LTSC 2024.

- System applications
Store, Cortana, etc.
- Universal applications
E-mail, Calendar, OneNote, Weather, News, Sports, etc.

[Reference URL]





<https://learn.microsoft.com/en-us/windows/iot/iot-enterprise/whats-new/windows-11-iot-enterprise-ltsc-2024>

2.Related Manuals

The manuals related to the product are listed below.

Read them as necessary along with this document.

◆ Must Read the Followings.

Name	Purpose	Contents	How to get
Product Guide	Must read this after opening the package.	This lists the product configuration and describes the precautions.	Included in the package (Printed matter)
Reference Manual	Read this when operating the product.	This describes the hardware aspects such as functions and settings.	 Download from the Contec website (PDF)
IPC Precaution List	Read this before operating the product.	This describes the precautions when using the product.	 Download from the Contec website (PDF)
MICROSOFT SOFTWARE LICENSE TERMS *1	Must read this after opening the package.	This describes the rights and conditions of user when using Windows software.	 Download from the Contec website (PDF)
Manual for OS Pre-installed Type (This Document) *1	Must read this after opening the package.	This explains basic OS information, setup procedures and recovery procedures.	 Download from the Contec website (PDF)

*1 Reference for pre-installed types only.

◆ Download End-user License Agreements

Download it from the following URL.

Download

<https://www.contec.com/support/useterms/>

◆ Download Manuals

Download the manuals accordingly from the following URL.

Download

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3. Manual composition

This manual is composed as follows:

Chapters ▼	Descriptions ▼
Introduction Provides you with the information you need to know before using the OS equipped with the preinstalled model. Refer to other related manuals as necessary.
Notes Regarding Use Gives notes/precautions regarding use.
Setup procedures Explains the procedures for setting up Windows after opening this product. Setup will be performed interactively.
System Information Explains the preinstalled model' s basic system information and main device driver versions, etc.
Recovery Method Explains how to recover the OS in the event that it is unable to start.
Customer Support and Inquiry Services and inquiry.

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Notes Regarding Use

This manual explains the precautions for using the product safely. Please make sure to read this before using this product.

1.Safety Information

This document provides safety information using the following symbols to prevent accidents resulting in injury or death and the destruction of equipment and resources.

Understand the meanings of these labels to operate the equipment safely.

 DANGER	Signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Signal word used to indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Signal word used to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

2. Handling Precautions

CAUTION

- The specifications of the product are subject to change without notice for enhancement and quality improvement. Even when using the product continuously, be sure to read the manual in the CONTEC's website and understand the contents.
 - Do not modify the software. CONTEC will bear no responsibility for any problems, etc., resulting from modifying the software.
 - Regardless of the foregoing statement, CONTEC assumes no responsibility for any errors that may appear in this document or for results obtained by the user as a result of using the software.
-

3.About Unified Write Filter

Unified Write Filter function (referred to as "UWF" in this document) is the new filtering which combined EWF, FBWF, and Registry filter.

UWF has deterred the write to DISK by redirecting the write to DISK from operating system or application to overlay.

- If you are updating software, adding data, or changing the settings, make sure to disable the UWF filter settings before doing so.
- Even if shut down, the contents written to the memory will not be written back to the disk. They will be deleted if you shut down or restart the system.

UWF of preinstalled type is not suitable for all configurations.

In particular, it is unsuitable for "the configuration which a lot of write requests generate from operating system or application to protected DISK." Under such an environment, restarting Windows is frequently needed.

The following describes a limitation for the specification of the UWF function in Windows 11 IoT Enterprise LTSC 2024. Understand it completely for implementation.

CAUTION

- Removable media (USB memory etc.) cannot be set as the UWF candidate.
- Folders or files that are excluded from protection cannot be moved into the protection area. If a "Recycle Bin" is an object for protection, it becomes as a deleting error since Explorer once moves the file to "Recycle Bin". In this case, delete the object without going through "Recycle Bin" by using Shift+Del keys on the keyboard.
- The function of File Exclusion and Registry Exclusion are available only in a FAT/NTFS volume.
- Volumes, such as exFAT, can be protected by UWF. However, the function of protect exclusion cannot be used.
- UWF supports NTFS. However, since the journal file of NTFS is recorded until a services of UWF begins, writing to DISK occurs upon starting up.
- UWF cannot protect a Hidden partition.
- If UWF is set to Enabled and starts up, some functions in Windows are changed for the performance improvement of UWF.

Check the technical information for details from the link listed below.

Please refer to the Microsoft technical information for details about UWF.

[https://msdn.microsoft.com/ja-jp/library/windows/hardware/mt572001\(v=vs.85\).aspx](https://msdn.microsoft.com/ja-jp/library/windows/hardware/mt572001(v=vs.85).aspx)

- In early stages, a UWF overlay region serves as maximum size of 1024 MB.

The present operating condition of a UWF overlay region can be checked by the following command.

```
>uwfmgr.exe overlay get-consumption
```

Systems operation is required so that a UWF overlay region may not be used to maximum size.

As the application software used by a user or Windows operation can be affected, it is necessary to restart Windows in accordance with a system application, and to release a UWF overlay region.

- The following measures are sufficiently effective though there are no complete measures.
 - Avoid writing in the protected volume as much as possible.
 - When writing in a log file, change to other volume that are excluded from protection write.
(Drives: USB memory and network storage, etc.)
-

4. Security Warning

When connecting to the network, be aware of security-related problems. See the examples of Security measures below and set up the product properly along with the network devices.

1. Information security risks

- Unauthorized access from the outside through a network could cause the system halt, data damage, or exposure to malware. *1
- Invaded and used as a stepping stone, a device might attack the others through networks. (a victim becomes an assailant)
- Information might leak without realizing due to the connection to the network.
- Secondary damages such as harmful rumors, liability in damages, social credibility fall, and opportunity loss are expected led by the troubles described above.

*1: Malware (Malicious Software) is software that brings harm to a computer system and performs unintended operations.

2. Security measures – e.g.

- Do not keep using the default password. (Refer to the product manual for the password setting).
- Set a strong password.

Combined with upper and lowercase letters, and numbers so that it cannot be easily analogized by others.

- Change the password periodically.
- Disable unnecessary network services and functions.
- Restrict access to the network with network devices. *2
- Restrict ports to be released on the network with network devices. *2
- Create a closed network connection using such as dedicated network or VPN*3

*2: Inquire for setting procedure to manufacturers.

*3: VPN (Virtual Private Network) a secured network that wards off unauthorized access by protecting the communication path with authentication and encryption.

Unfortunately, there are no perfect ways to avert unauthorized access or close a security hole that are endlessly found day and night.

Please understand that risks are always involved with the Internet connection, and we strongly recommend a user should constantly update information security measures.

Setup procedures

This manual describes the setup procedure that a user needs to perform after unpacking the product with a pre-installed operation system.

The setup of Windows is performed interactively.

1. Windows setup

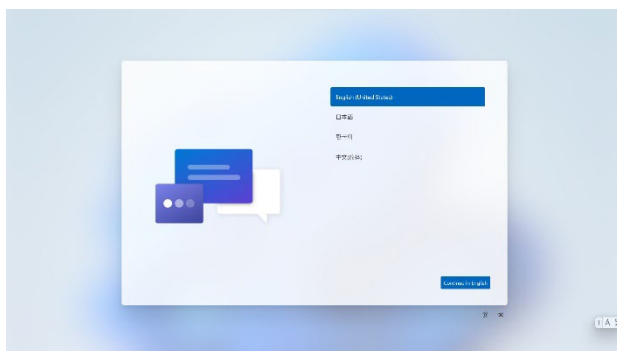
Check that the monitor, the keyboard and the mouse are connected with the PC. Do not connect other devices until a Windows setup is completed. After confirming the connections, turn on the PC power.

⚠ CAUTION

- The screen change during the setup operation may take time for a while.
- Do not turn off the power of the personal computer during the setup operation. Turning off the computer power before completing the setup will result in Windows system damages.
- The HDD/SSD built into the preinstalled type are GPT formatted. And, OS area is formatted by NTFS.
- The display driver, the LAN driver, the audio driver, etc. are already incorporated. However, since a network setup is needed separately, please consult with the system administrator of a connection place network.
- It is not necessary to enter a Windows product key into this product.
- If you do not connect the PC to the Internet at all, activating Windows (license authorization) is unnecessary.

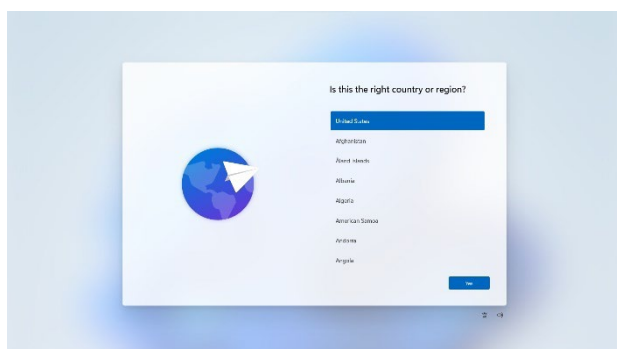
Please wait for the Windows setup starts.

Follow the instructions on the display after start-up.

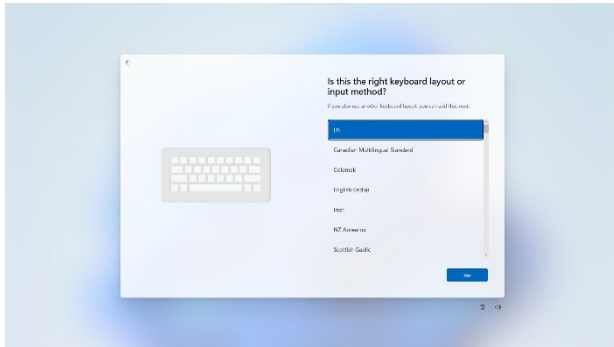


1. The language choice for Windows appears on the display. Select the language. Display language changes to the selected one. And, click the **Continue in English**.

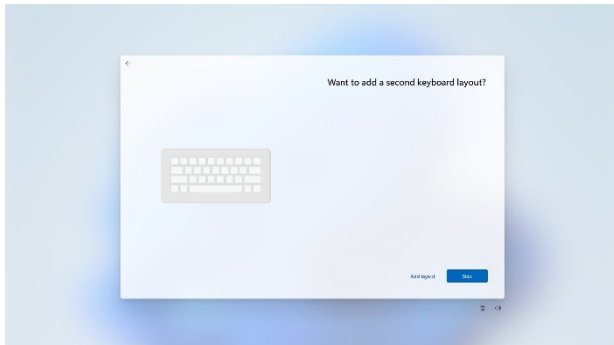
The example which selected English explains a step.



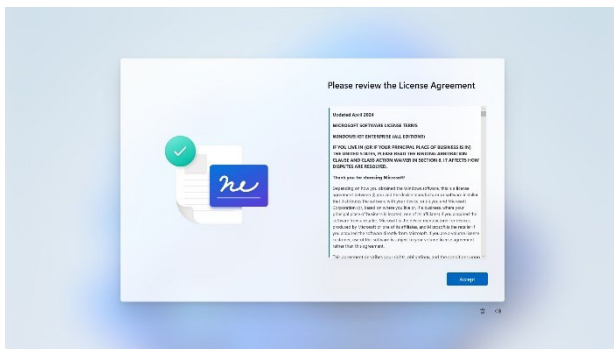
2. Select the country or region you want to use. And, click the **Yes**.



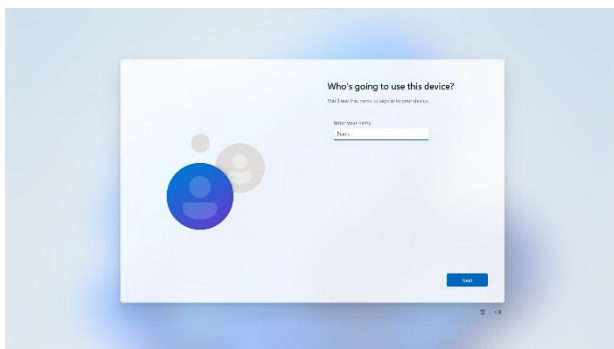
3. Select keyboard layout.
And, click the **Yes** .



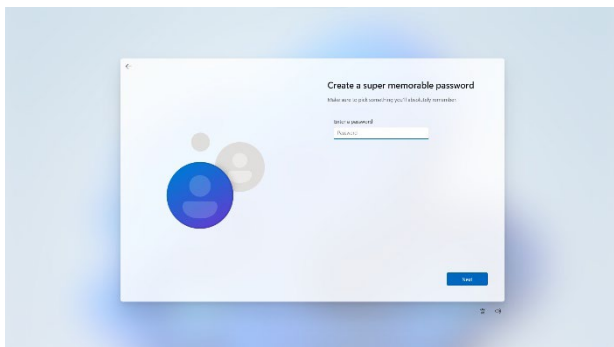
4. Select additional keyboard layout.
If not, click the **Skip** .



5. It is a document regarding License.
Click the **Accept** .

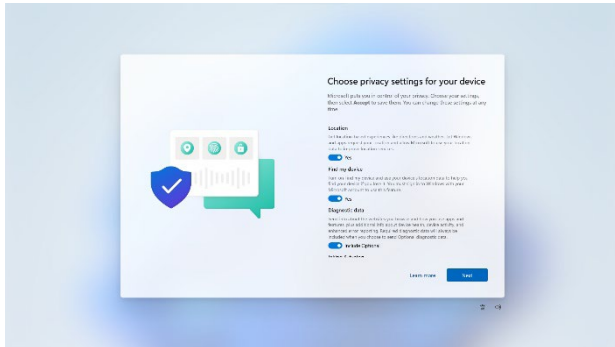


6. Then, the display of creating account can be viewed. Enter the account name to be used.
Click the **Next** .

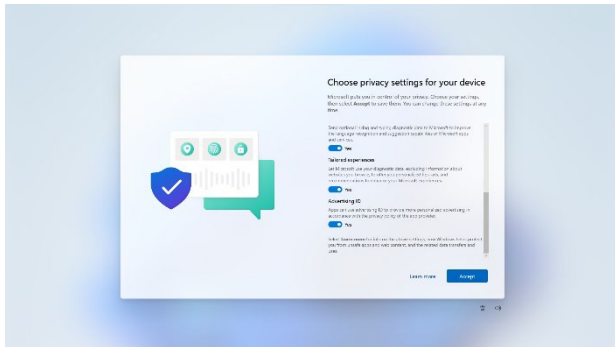


7. Then, the display of creating password can be viewed.

When a password is omitted, an automatic logon can be made by the created account.
Click the **Next** .



8. It is a setup regarding OS operation.
Click the **Next** .



9. It is a setup regarding OS operation.
Click the **Accept** .



10. When a password setting is skipped, an automatic logon can be made by the created account (user name).

System Information

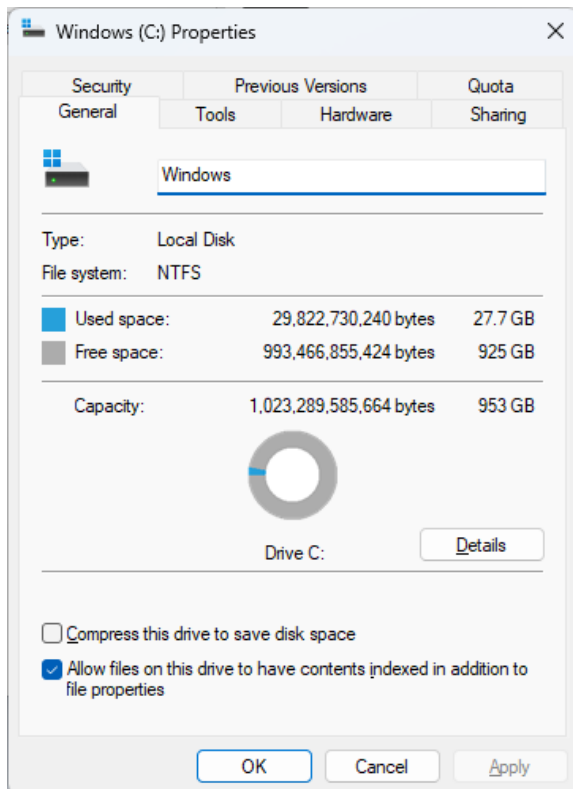
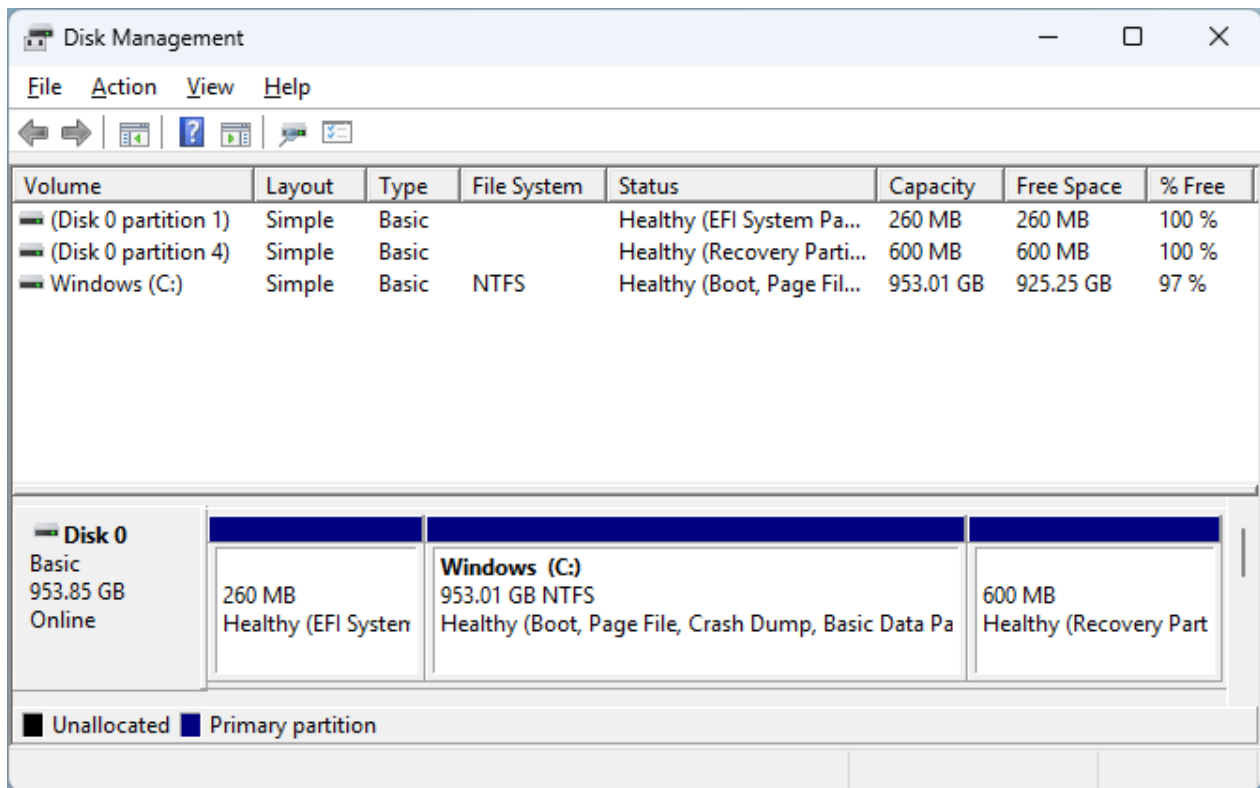
Explains the preinstalled type's basic system information and main software versions, etc.

1. Basic Information

☒ Embedded function ☐ Unembedded function

Item	Details				
Version	24H2				
Build version	26100.4349 (KB5060842)				
Language components	<input checked="" type="checkbox"/> English <input checked="" type="checkbox"/> Japanese <input checked="" type="checkbox"/> Simplified Chinese <input checked="" type="checkbox"/> Korean <input type="checkbox"/> Other ()				
	Component	English	Japanese	Simplified Chinese	Korean
	Basic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Font	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Handwriting recognition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Optical character recognition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Speech synthesis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Speech recognition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
Main functions and versions	Microsoft Edge	122.0.2365.106			
	Windows Media Player	12.0.26100.4343			
	Microsoft .NET Framework	4.8.1			
	Remote Desktop Connection	10.0.26100			
	Remote Desktop Protocol	10.12			
CONTEC utilities	CONTEC Solution Manager	1.13			
Supply schedule	Mainstream support end date	October 09, 2029			
	Extended support end date	October 10, 2034			
	End of Life	June 30, 2034			

2.Storage and Partition Configuration

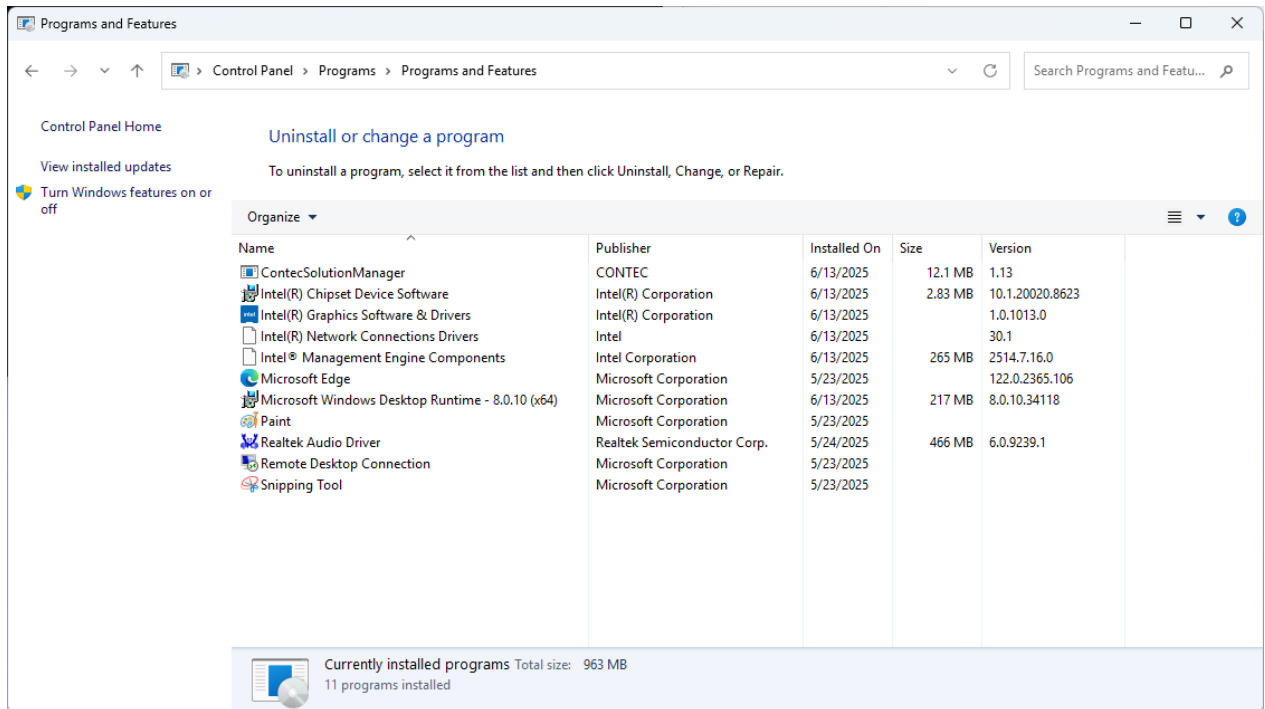


* The disk usage indicated is a reference value.

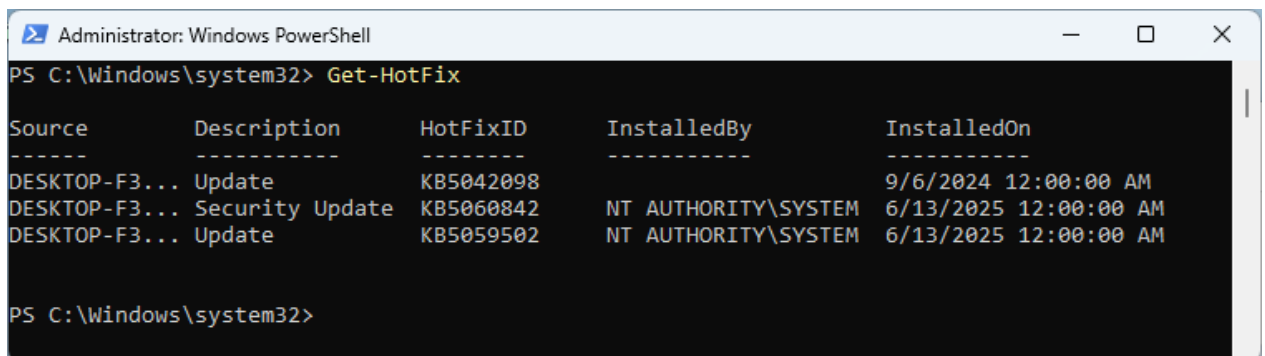
3. Programs and Features

1. Installed software

View a list of installed software

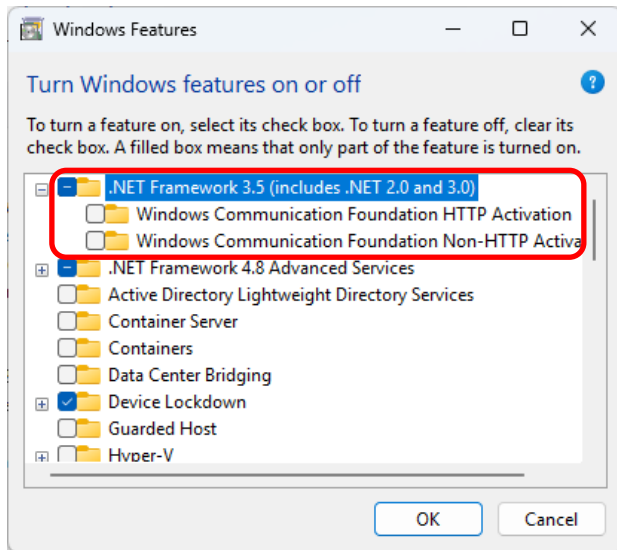


To check for updates, click on the "View installed updates" item or execute the following PowerShell command.

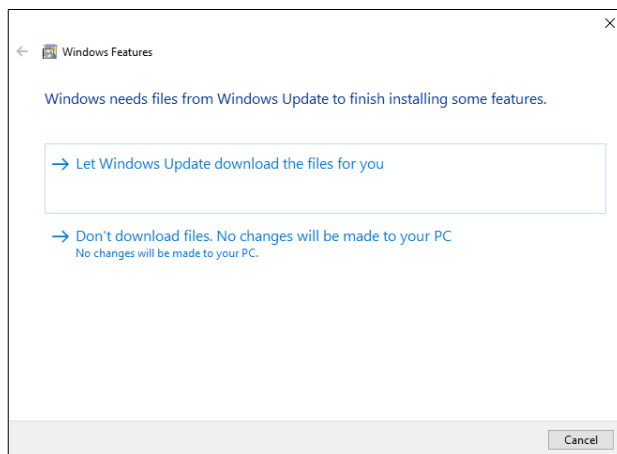


2. Enable or disable Windows functions

.NET Framework 3.5 is installed in the preinstalled type.

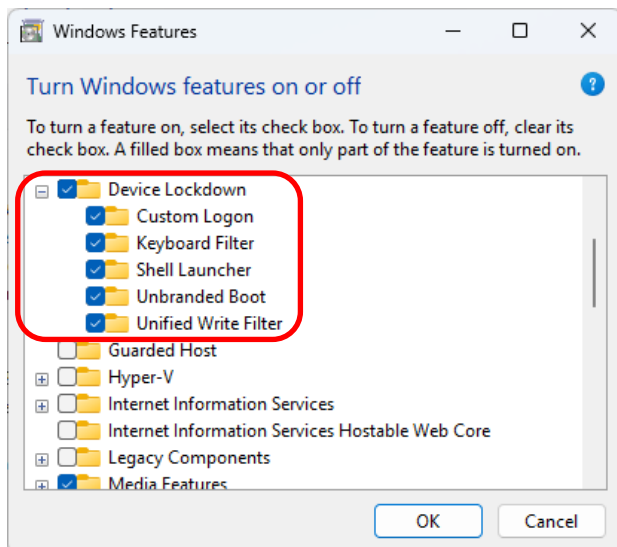


Selecting "Turn Windows features on or off" will allow you to check related items.



If you have used "Turn Windows features on or off" to disable a related item, when reenabling it a "File download" message will be displayed and you will not be able to enable it. In order to reenable it, you will need to follow the instructions on the screen while connected to the Internet to perform setup, or recover the preinstalled type.

Under CONTEC preinstalled type factory default settings, Device Lockdown is enabled.



Using the lockdown function, you can restrict unintentional user operations or control information displayed on the screen.

Function name	Overview
Shell Launcher	Turning on the power, the device will sign in to an environment in which only designated programs can be run.
Custom Logon	Suppresses Windows component display during Windows startup, restart and shutdown, as well as when signing in.
Keyboard Filter	Prevents undesirable keyboard operations.
Unbranded Boot	Suppresses the display for the Windows loading screen. https://docs.microsoft.com/ja-jp/windows-hardware/customize/enterprise/unbranded-boot
Unified Write Filter (UWF)	Restricts writing to the protected disk, preventing alterations and falsifications of the system.

3. UWF settings

For UWF settings, use either the Microsoft console application UWF manager (uwfmgr.exe) or CONTEC Manager, the GUI application installed in the preinstalled type.

The UWF function's filter is disabled by default. The following explains the procedure for checking the UWF settings using UWF manager (uwfmgr.exe).

□ indicates a space.

```

Administrator: Command Prompt
C:\Windows\System32>uwfmgr get-config
Unified Write Filter configuration utility version 10.0.26100
Copyright (C) Microsoft Corporation. All rights reserved.

Current Session Settings

FILTER SETTINGS
  Filter state: OFF
  Commit pending: N/A
  Shutdown pending: N/A
  HORM mode: N/A

SERVICING SETTINGS
  Servicing State: OFF

OVERLAY SETTINGS
  Type: RAM
  Maximum size: 1024 MB
  Warning Threshold: 512 MB
  Critical Threshold: 1024 MB
  Read Only Media: OFF
  Freespace Passthrough: OFF
  Persistent: OFF
  Reset Mode: N/A
  Reset Saved Mode: N/A

VOLUME SETTINGS
  *** No volumes configured

REGISTRY EXCLUSIONS
  *** No exclusions

Next Session Settings

FILTER SETTINGS
  Filter state: OFF
  Commit pending: N/A
  Shutdown pending: N/A
  HORM mode: N/A

SERVICING SETTINGS
  Servicing State: OFF
  
```

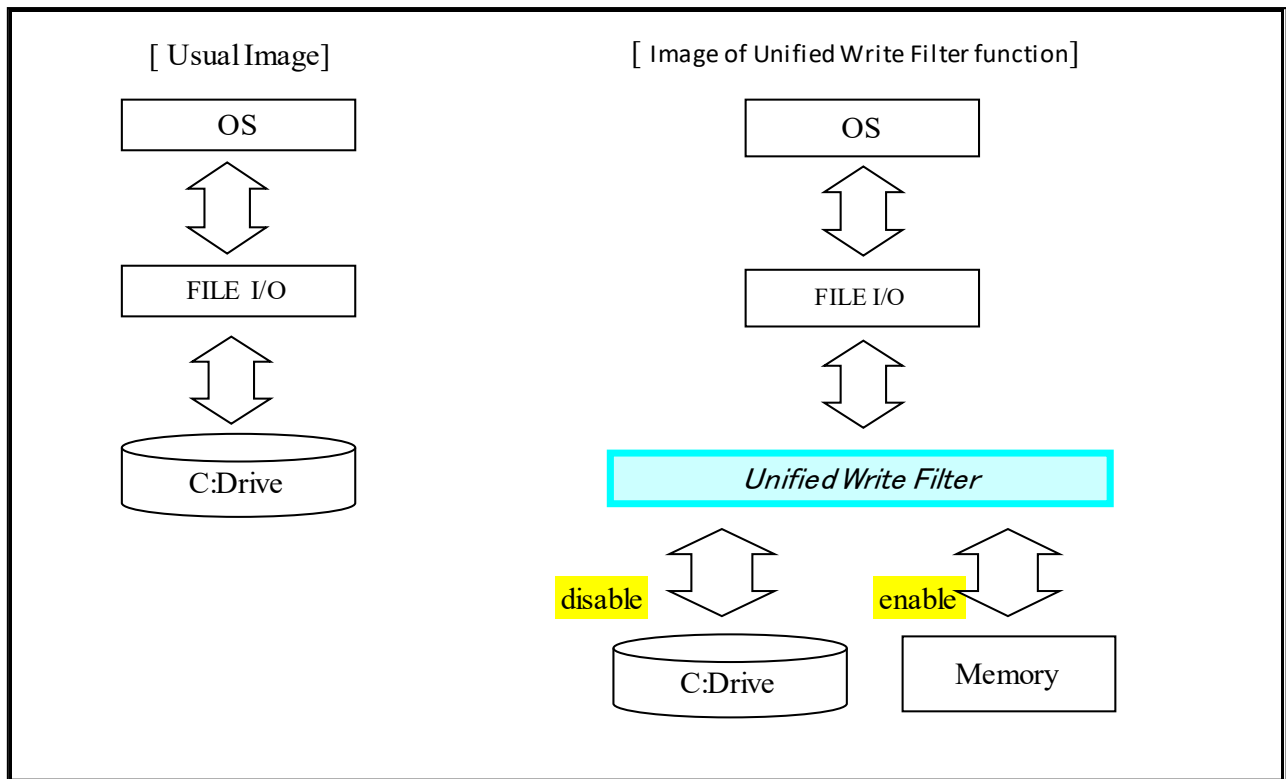
Start Command Prompt (with administrator authority).

Input "uwfmgr□get-config" and press the [Enter] key. View current settings status.

Item	Display	Meaning
Volume state	OFF	Enabling the UWF
	ON	Disabling the UWF
VOLUME SETTINGS	None/Un-protected	Invalid Volume Protect
	Protected	Effective Volume Protect

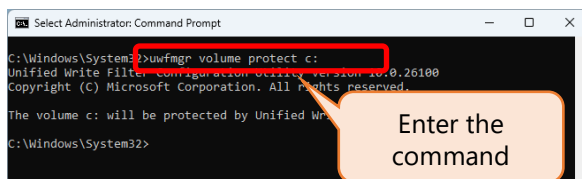
This is the CONTEC factory default settings status.

When UWF is enabled, writing to the disk will be restricted, allowing for the lifetime of disks with writing restrictions to be lengthened. It also allows you to prevent unintentional system alterations. Below is a configuration graph of the UWF functions.

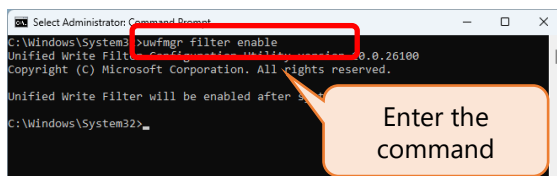


The following explains the method for setting write protection for the C drive using UWF manager (uwfmgr.exe).

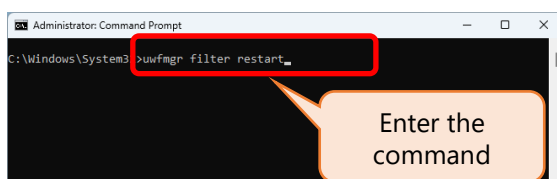
□ indicates a space.



1. Input "uwfmgr□volume□protect□c:" and press the [Enter] key.



2. Input "uwfmgr□filter□enable" and press the [Enter] key.



3. Input "uwfmgr□filter□restart" and press the [Enter] key. Restart Windows.

```

Administrator: Command Prompt
C:\Windows\System32>uwfmgr get-config
Unified Write Filter Configuration Utility, version 10.0.26100
Copyright (C) Microsoft Corporation. All rights reserved.

Current Session Settings

FILTER SETTINGS
  Filter state: ON
  Commit pending: NO
  Shutdown pending: NO
  HORM mode: OFF

SERVICING SETTINGS
  Servicing State: OFF

OVERLAY SETTINGS
  Type: RAM
  Maximum size: 1024 MB
  Warning Threshold: 512 MB
  Critical Threshold: 1024 MB
  Read Only Media: OFF
  Freespace Passthrough: OFF
  Persistent: OFF
  Reset Mode: N/A
  Reset Saved Mode: N/A

VOLUME SETTINGS
  Volume 92ec1667-4df5-4298-ba6f-0a9ce0fd73a8 [C:]
  Volume state: Protected
  Volume ID: 92ec1667-4df5-4298-ba6f-0a9ce0fd73a8
  Swapfile: 0 MB

File Exclusions:
Current Session Exclusions for Volume 92ec1667-4df5-4298-ba6f-0a9ce0fd73a8 [C:]
  *** No exclusions

REGISTRY EXCLUSIONS
  *** No exclusions

Next Session Settings
  
```

4. Input "uwfmgr get-config" and press the [Enter] key. View current setting status.

Item	Display	Meaning
Filter state	OFF	Disabling the UWF
	ON	Enabling the UWF
Volume state	Un-protected	Invalid Volume Protect
	Protected	Effective Volume Protect

4. Set to factory default values

This section explains the preinstalled type's various factory default settings. You can reset these settings unless their values are specially designated.

1. Panel

The initial screen resolution will be the recommended resolution for the connected display. To change screen settings (resolution, color, refresh rate, rotation, etc.), please use the Windows [Display settings].

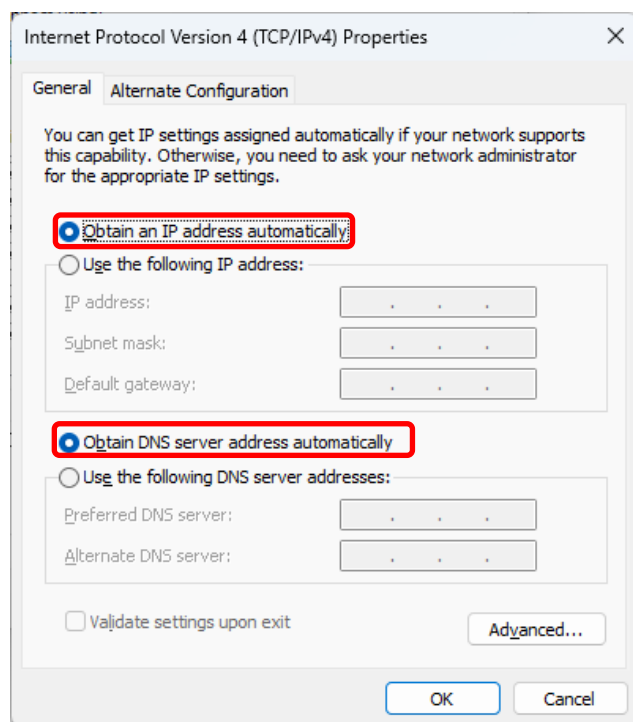
2. Ethernet settings

The preinstalled type's product Ethernet display and the OS Ethernet recognition status are shown below.

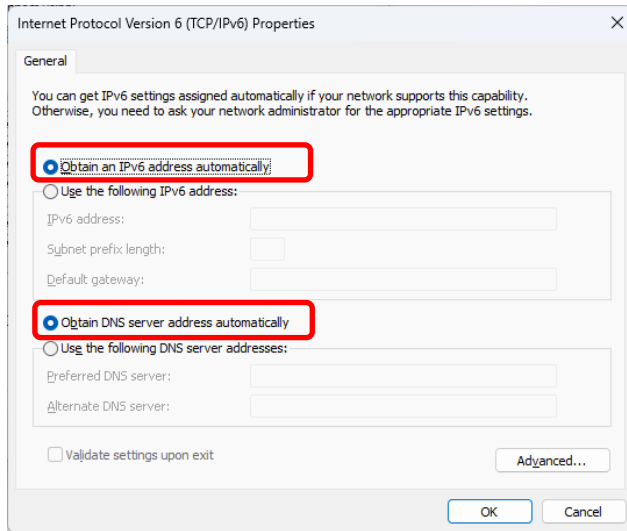
Product Ethernet display	OS Ethernet recognition
LAN 1	Ethernet
LAN 2	Ethernet 2

The LAN recognized names are set to match the language selected during initial Windows setup. The above are the LAN recognized names when Japanese was selected during Windows setup. Even if you change the language in Windows later, the LAN recognized names will not change automatically. If you want to display the LAN recognized names to match the language, you need to change the settings manually.

If changing the network settings, select [Control Panel] → [All Control Panel Items] → [Network and Sharing Center], and you can set them in [Change adapter settings]. The preinstalled type's factory default network settings are shown below.



[Internet Protocol Version 4]
IP address : automatically
DNS : automatically



[Internet Protocol Version 6]

IP address : automatically

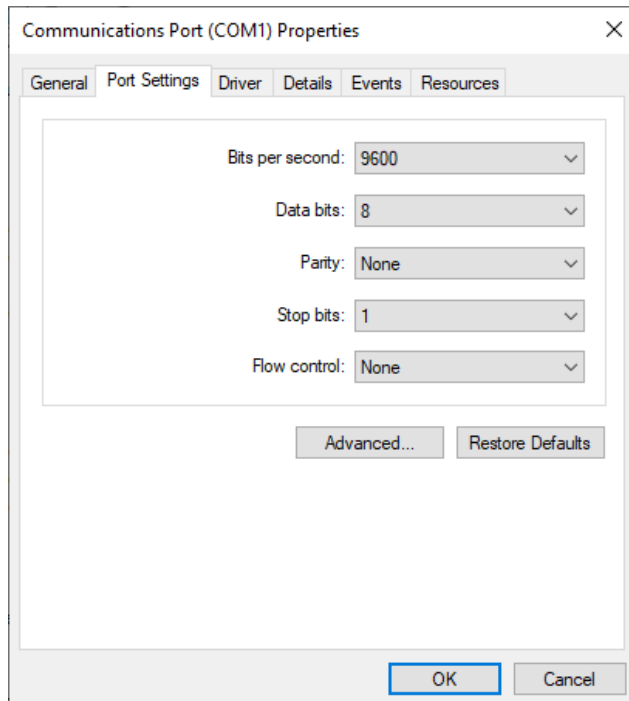
DNS : automatically

3. Serial Port Settings

The preinstalled type's product SERIAL display and OS SERIAL recognition status are shown below.

Product SERIAL	OS SERIAL recognition
Serial Port 1	COM1
Serial Port 2	COM2
Serial Port 3	COM3
Serial Port 4	COM4

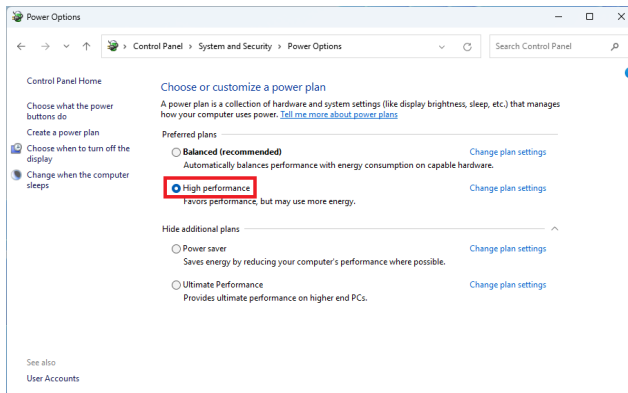
Use Device Manager to check the port settings.



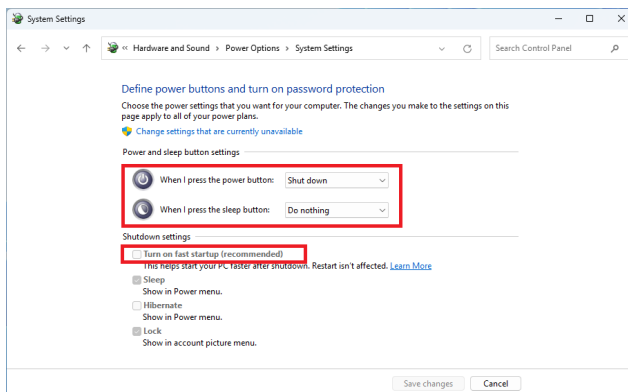
Item	Settings
Bits per second	9600
Data bits	8
Parity	None
Stop bits	1
Flow control	None

4. Optional power settings

This section explains the factory settings for power options.



Power plans : High performance



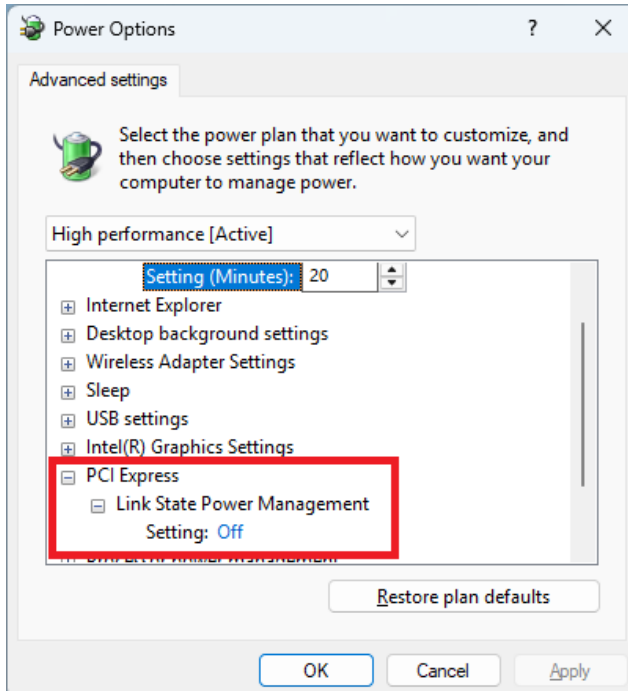
Power and sleep button settings

When I press the power button : Shut down

When I press the sleep button : Do nothing

Shutdown settings

Turn on fast startup (recommended) : Uncheck



Advanced settings

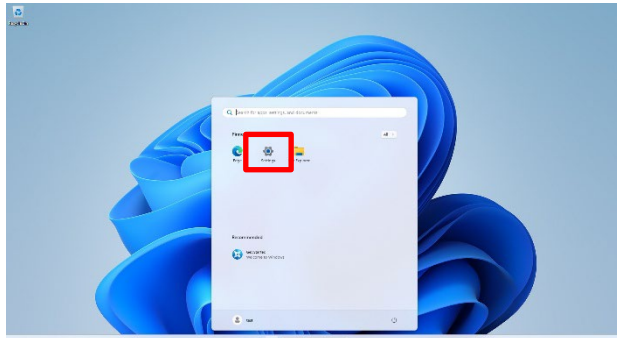
PCI Express-Link State Power Management

Setting : Off

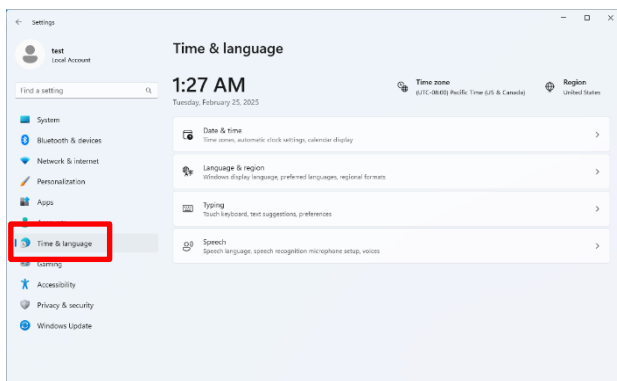
5.Changing the language

The preinstalled type supports English, Japanese, Korean and Simplified Chinese.

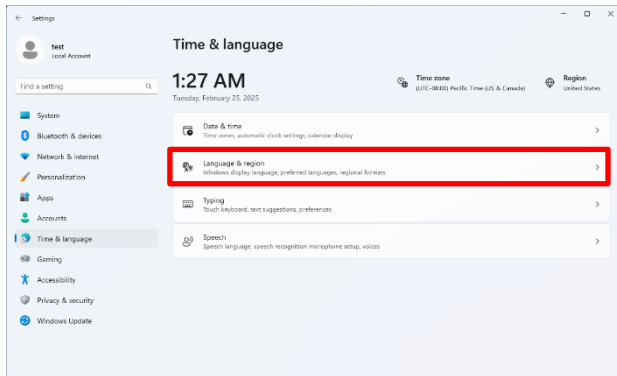
The following explains how to manually change the language settings. As an example we will explain the procedure for switching from English to Japanese.



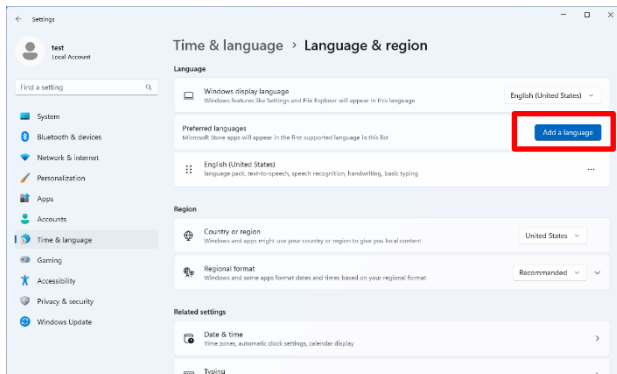
1. On the [Start] menu, click [Settings].



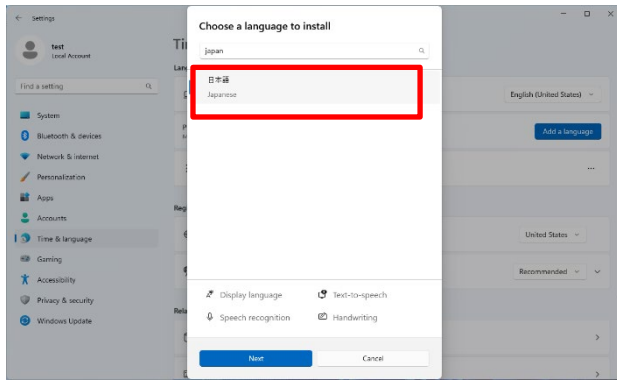
2. Click [Time & Language].



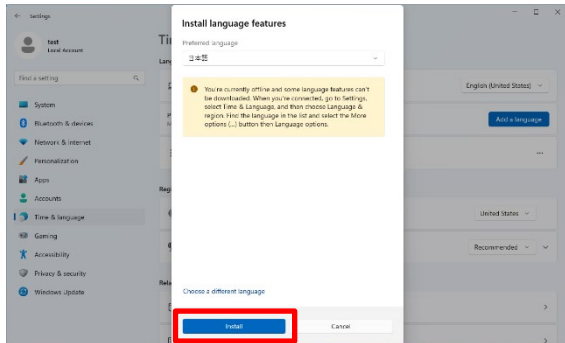
3. Click [Language & region].



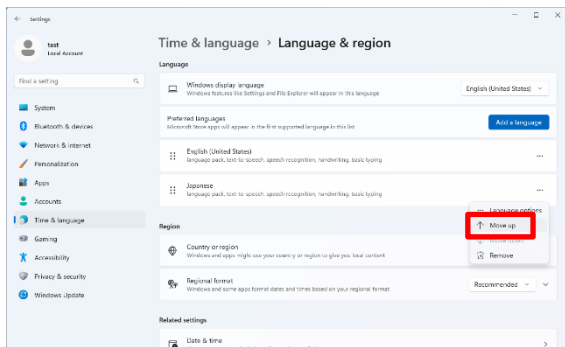
4. Click [Add a language].



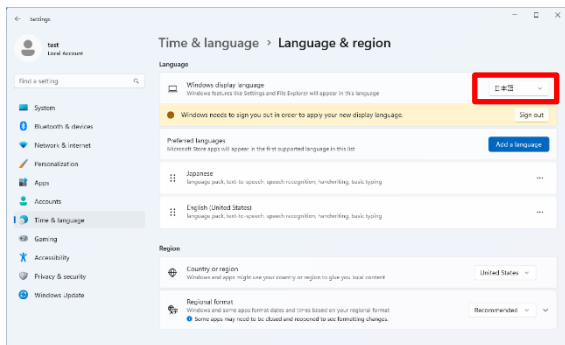
- Input "Japan" in the textbox, and a list will appear below. Select [日本語 (Japanese)], and then click [Next].



- The language function's installation screen will be displayed, but it is already installed. Click [Install].



- Japanese is added, so select that item. In order to change the current language from English (United States) to Japanese, click [↑ Move up].

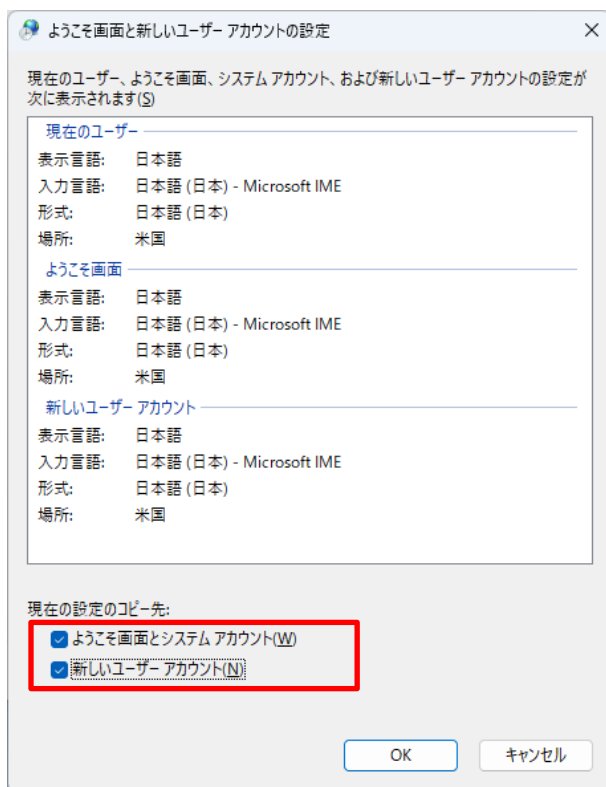


- The Windows display language will be set to Japanese. Restart Windows.

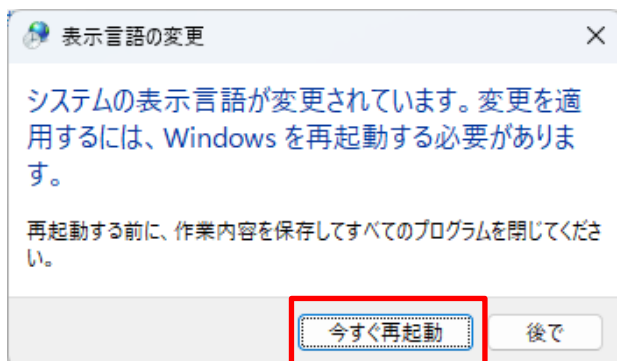
In order to change the display language during startup and shutdown to Japanese, you also need to perform the following settings.



9. In Control Panel, click [時計と地域 (Clock and Region)], then click [地域 (Region)]. The [地域 (Region)] properties screen appears. Select the [管理 (Administrative)] tab and click on [設定のコピー(O)…] (Copy settings…).



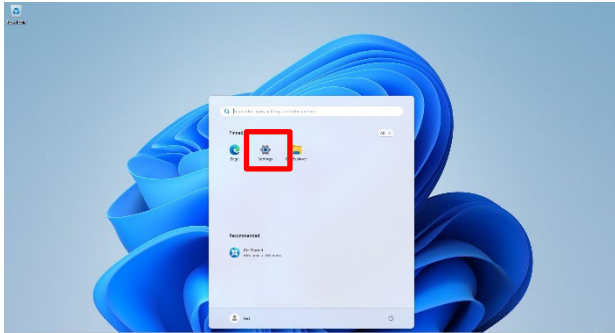
10. After checking both the [ようこそ画面とシステムアカウント (Welcome screen and system accounts)] and [新しいユーザーアカウント (New user accounts)] boxes, click [OK].



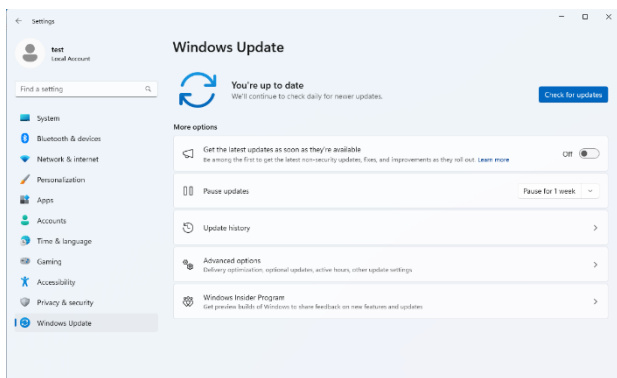
11. Confirm the contents, then click [今すぐ再起動 (Restart now)] to restart the system and complete the settings.

6.Windows Update

You can install the correction program (QFE) in [Update & Security].



1. On the [Start] menu, click [Settings].



2. Click [Windows Update], and click [Check for updates]

⚠ CAUTION

Since the StartComponentCleanup task is disabled at the time of shipment, old components etc. are not automatically deleted. If you need to delete it, enable the task or run the command below.

Dism.exe /online /Cleanup-Image /StartComponentCleanup

(Run from an administrator command prompt.)

(Reference URL)

<https://learn.microsoft.com/en-us/windows-hardware/manufacture/desktop/clean-up-the-winsxs-folder?view=windows-11>

7.CONTEC Solution Manager

1. Overview

CONTEC provides not only functions installed with this product such as the RAS function to secure reliability and the UWF function providing the OS, but also setting tools that allow you to use CONTEC products more smoothly and a library to control the functions listed below.

- Hardware monitor
- Watchdog timer
- UWF operations and status monitoring

For detailed instructions, see the help file. The following describes how to consult the help file.

[Start] menu → CONTEC Manager → Help

CONTEC Solution Manager updates without future notice through the new product's response, improvements, etc. For this reason, the version installed in the preinstalled version may be out of date in some cases. Confirm the latest version online.

Download it from the following URL.




Download

<https://www.contec.com/download/>

(*) Reliability Availability and Serviceability : Support functions for stable system operations

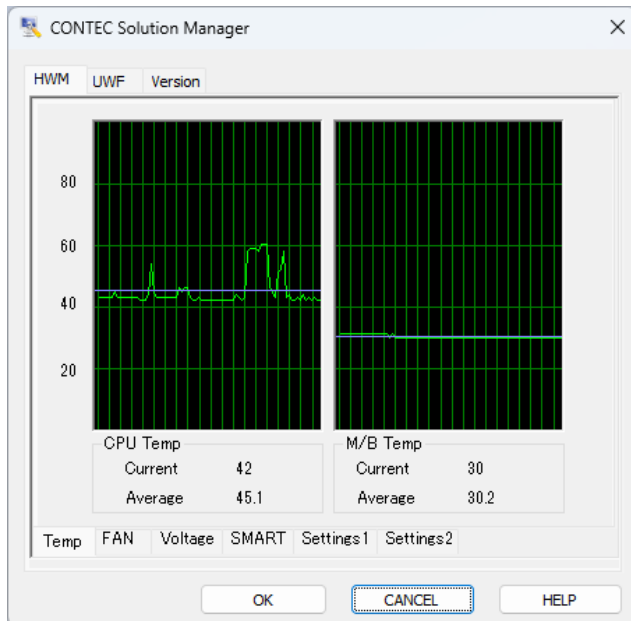
2. How to start

CONTEC Solution Manager is run from the service application (CoRasSvr.exe) when you sign in to Windows and remains in the task tray. The following icon will appear in the task tray. Move the cursor over the icon and double-click on it to display the properties screen. You can also show the properties screen by pressing <Alt> and <Esc> at the same time.

Task tray icon	Meaning
	UWF disabled status
	UWF enabled status
	UWF function disabled status (The hardware monitor, etc., with the exception of the UWF function, can be used)

3. Properties screen

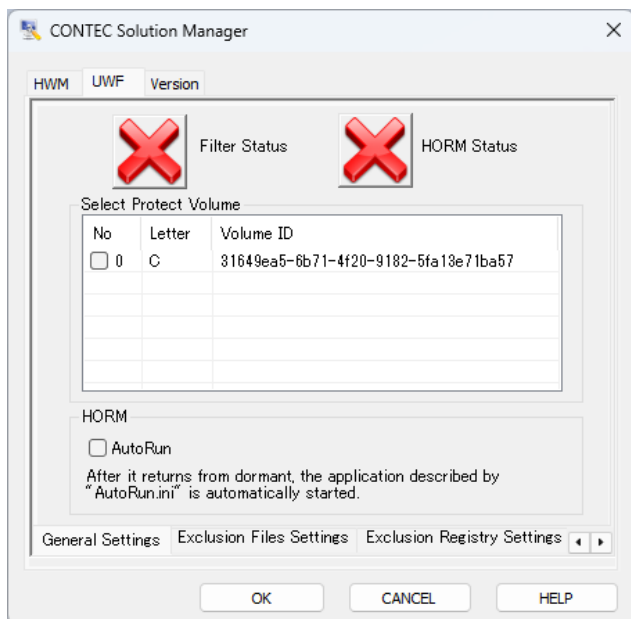
*The following images may differ from the actual product.



Monitor hardware status such as the CPU temperature, the M/B temperature and so on. If it exceeds the set threshold, the set alarm action will be activated.

Alarm actions that can be set :

- 1.None (Initial settings)
- 2.Popup Message
- 3.Reboot
- 4.Shutdown
- 5.Designated application



Change settings such as enabling/disabling UWF. Monitors the usage status of the overlay region when UWF is enabled.

If it exceeds the set threshold, the set alarm action will be activated.

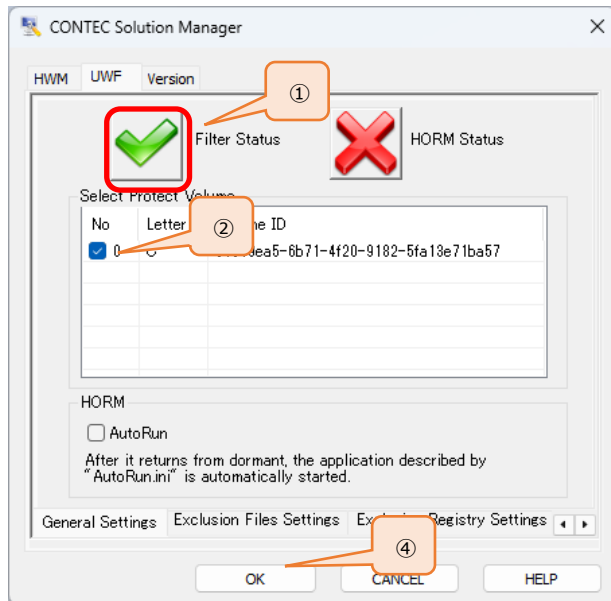
Alarm actions that can be set:



- 1.None (Initial settings)
- 2.Popup Message
- 3.Reboot
- 4.Shutdown
- 5.Designated application

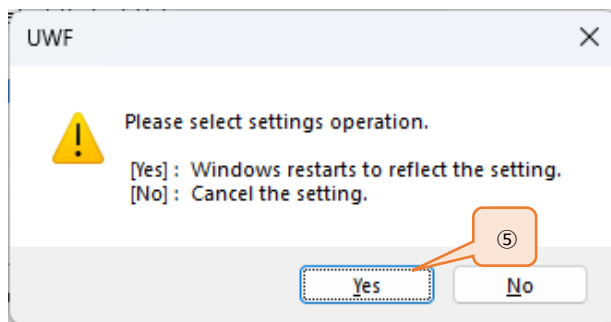
Icon	Settings
	Disabled status
	Enabled status
	Unable to set

4. UWF settings

The following explains the method for setting write protection for the C drive.



- ① Click [] and set to [].
- ② Tick the volume [C] targeted for protection.
- ③ Click the [OK] button.



- ④ Click the [OK] button.
The settings will be enabled once you restart Windows.

Recovery Method

This chapter explains how to recover the OS in the event that it is unable to start in the preinstalled type.

1.Preparations

This article explains how to perform OS recovery using a DVD-ROM drive. Please prepare the following equipment.

- The product itself
- Monitor
- USB Keyboard
- USB Mouse
- USB DVD-ROM Drive (If the product does not have an optical drive)
- Provided Recovery Media (You require recovery media, contact your retailer.)

Please check the following points and connect the device.

CAUTION

- Before using a recovery media, be sure to read the license agreements (END USER LICENSE AGREEMENT about respective OS and Easy Restore license agreement). You can use this recovery media only if you agree to the license descriptions.
 - Use of the recovery media is allowed only for the purpose of restoring preinstalled OS. Using the media for other purposes than OS recovery is prohibited.
 - The content of the silicon disk returns to the state when our company is shipped by restoring it by recovery media. Take the backup in important data beforehand.
 - Remove the connected disks if that are not composed in the pre-installed type from the body.
 - Remove the USB storage device if it is connected to the body.
-

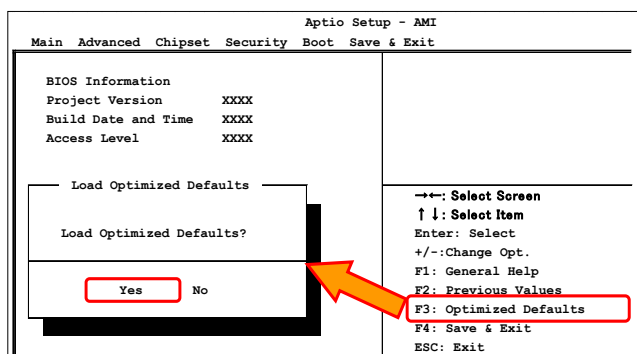
1.Procedure

Before proceeding, connect a display, USB keyboard, USB mouse, and USB DVD-ROM drive (if the product does not have an optical drive) to the product.

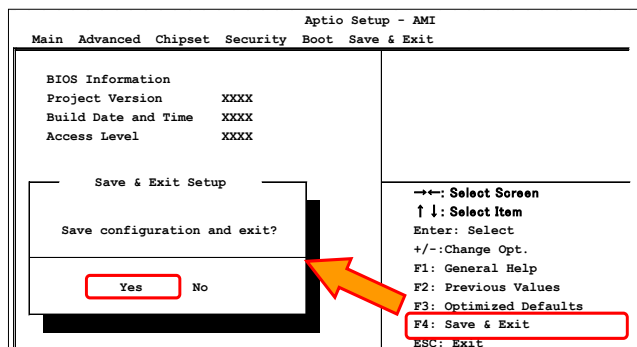
1. BIOS settings

Please set recovery media(DISC1) to a DVD-ROM drive, and connect with PC.

Turn on the power supply of PC and Press [DEL] key or [ESC] key immediately after turning on the power, activating Aptio Setup Utility. Recovery Procedures.

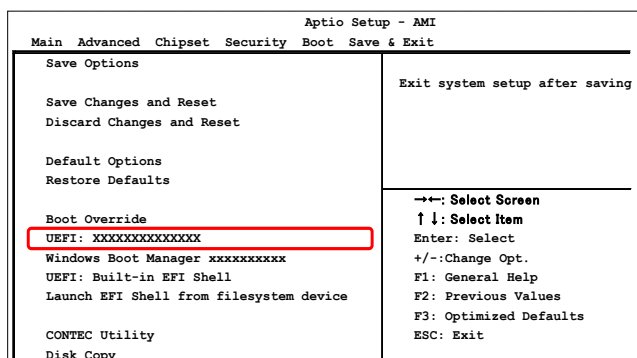


1. Press [F3] key, select [Load Optimized Defaults]. Please select [Yes] and press [ENTER] key.



2. Press the [F4] key, select [Yes] from [Save & Exit Setup], and press the [ENTER] key to reboot.

Immediately after rebooting,
press the [DEL] or [ESC] key on the BIOS boot screen.



3. Select the [Save & Exit] menu. Press the [↓] key, select "UEFI: DVD-ROM drive" displayed in Boot Override, and press the [Enter] key. The system will restart and UEFI boot will be performed from the selected DVD-ROM drive. Proceed to "2. OS installation".

2. OS installation

UEFI boot will be performed from the DVD-ROM drive, and after a while Windows PE will start.

```
[!!! WARNING !!!]
Initialize Storage.
Are you Sure? [Y/N]
```

1. When you receive the confirmation message, please press [Y] key and [ENTER] key. (If you do not continue the recovery, press [N] key.)

```
[!!! WARNING !!!]
The second storage was found.
Initialize the storage in NTFS format ? [Y/N] > _
```

2. If two storage devices are connected to the main unit, the message shown on the left will be displayed. To format, enter the [Y] key and press the [ENTER] key.

```
CImage Tool for Windows
Copyright<C> 2017 CONTEC CO., LTD.
Version X.X.X.X

Copy swm file : xxxxxxxx_xxxx.swm
[ 100% ] copied
Please Insert next disc [ 2 / 2 ] and type '[ Enter ]'
```

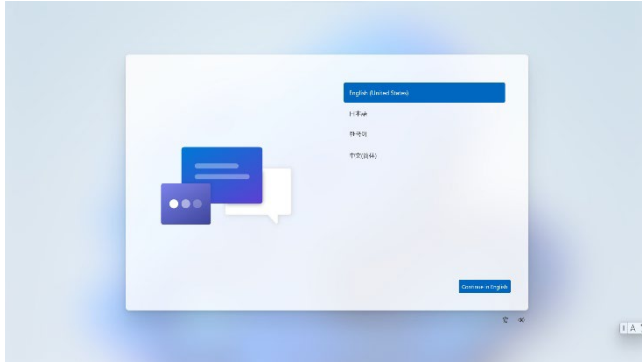
3. HDD/SSD initialization and recovery processing will be performed automatically. When the installation of Disc1 is complete, the message on the left will be displayed. Insert Disc2 and press the [ENTER] key.

```
*****
Remove the System Restoration Disk
Press any key to shutdown
*****
```

4. When the recovery process is complete, the screen shown on the left will be displayed. Remove the recovery media from the DVD-ROM drive and press the [Enter] key. The system will then shut down.

3. Start OS

Turn the power back on. The screen of the left figure is displayed after several times reboot.



Perform Windows setup following the setup procedure in this manual.

Customer Support and Inquiry

CONTEC provides the following support services for you to use CONTEC products more efficiently and comfortably.

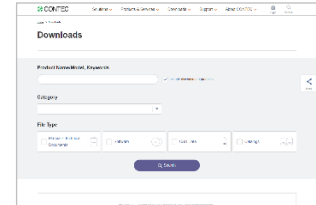
1.Services

CONTEC offers the useful information including product manuals that can be downloaded through the CONTEC website.

Download

<https://www.contec.com/download/>

You can download updated device driver, firmware, and differential manuals in several languages. Membership registration (myCONTEC) is required to use the services.



Revision History

MONTH YEAR	Summary of Changes
June 2025	The First Edition

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SR4100 Manual for OS Pre-installed Type (Windows 11 IoT Enterprise LTSC 2024)

NA10940 (LXEZ651) [06202025]

June 2025 Edition