BIOS/OS settings of PC

BIOS Settings

How to start BIOS:

Turn ON the power of the controller PC, and press the [F10] key while the HP logo is displayed.
Depending on the timing to recognize the monitor, the display of the HP logo may not be confirmed.
If the OS starts due to the delay in pressing the [F10] key, restart the controller PC and try again.

Setting items			Setting (HP Z2 SFF G9 Workstation) BIOS 01.02.04 / 02.01.02 or later
Security			
	Trusted Execution Technology(TXT)	–	Uncheck
Advanced			
	Boot Options	Fast Boot	Uncheck[*1]
		Network (PXE) Boot	Uncheck[*1]
	Built-In Device Options	Wake On LAN	Boot to Hard Drive
	Power Management Options	Extended Idle Power States	Uncheck[*1]
	Remote Management Options	Intel Management Engine (ME)	Uncheck[*1]
		Intel Active Management Technology (AMT)	Uncheck
		Watchdog Timer	Uncheck (Cannot change)

*1 Item to change manually (item to be changed from BIOS default)

After confirming that all the above items are set, save the BIOS setting.

How to save BIOS setting:

1. Click [Main] - [Save Changes and Exit], and select [Yes] on the [Save Change?] screen.
2. If the [Secure Boot] screen appears, enter the displayed number and press the [Enter] key.

OS (Windows10) Settings

Before setting the OS, you must activate Windows by connecting the controller PC to the network.

1. Connect the controller PC to the network.
2. Click [Start] - [Settings] - [Update & Security] - [Activation] - [Troubleshoot].
3. When [Troubleshoot has completed] appears, click [Activate Windows].
4. Make sure that [Windows 10 is Activated with a Digital license] is display, and close all of the setting screen.
5. Disconnect the controller PC from the network.

Confirmation items	Setting
Log on	
When setting up the Windows OS, set the account name and password. After OS setup is completed, make sure that screen lock can be released with [Start] - [👤 or OLYMPUS (olympus)] - [Lock] and input "olympus" as the account and "olympus" as the password.	Able to logon with the following: Account: "olympus" Password: "olympus"
BIOS	
Right-click [Start], select [Search], input "SystemInfo", and click [System Information].	BIOS Version in BIOS Settings
OS	
Edition	Windows10 Pro
Version	21H2 / 22H2
Windows setup	
Country or region [Start] - [Settings] - [Time & Language] - [Region]	United States
Time and date settings [Start] - [Settings] - [Time & Language] - [Region] - [Additional date,time & regional settings] - [change date,time,or number formats]	Match Windows display language (recommended)
Keyboard layout [Start] - [Settings] - [Time & Language] - [Language] - [Keyboard]	Use language list (recommended)
TimeZoon Setting [Start] - [Settings] - [Time & Language] - [Data & time] - [Time zone]	Osaka, Sapporo, Tokyo
[Display] property setting	
Screen saver [Start] - [Settings] - [Personalization] - [Lock screen] - [Screen saver settings]	Screen saver -> None
	On resume display logon screen -> Off
TaskBar [Start] - [Settings] - [Personalization] - [Taskbar]	Lock the task bar -> On (No change from default setting)
	Automatically hide the taskbar in desktop mpde -> On
	Taskbar location on screen -> Bottom (No change from default setting)

Confirmation items	Setting
Background Insert the installation medium into the disk drive. Copy the "OLYMPUS_Microscope_2560 x 1600.bmp" in the medium folder (**D:\DSX10-BSW\Kitting**) into the following folder. **C:\Users\Public\Pictures** (If your DVD drive is not the D drive, change "D" to the character of your DVD drive.) Right-click the image, select [Set as desktop background].	 OLYMPUS_Microscope_2560 x 1600.bmp
Lock (Sign out) wallpaper Insert the installation medium into the disk drive. Copy "BACKGROUNDDEFAULT.jpg" in the medium folder (**D:\ DSX10-BSW\Kitting**) into the following folder. **C:\Windows\Web\Screen** Click [Start] - [Settings] - [Personalization] - [Lock screen]. Click the down arrow button in the background, select [Image] and click [Browse]. Select "BACKGROUNDDEFAULT.jpg" in **C:\Windows\ Web\Screen**.	 BACKGROUNDDEFAULT.jpg
Login account icon Insert the installation medium into the disk drive. Copy "OLYMPUS_icon.bmp" in the medium folder (**D:\DSX10-BSW\ Kitting**) into the following folder. **C:\Users\Public\Pictures** Click [Start] - [Settings] - [Accounts]. Click [Browse] under [Create your picture] - [Your picture], select "OLYMPUS_icon.bmp" in **C:\Users\Public\Pictures**.	 OLYMPUS_icon.bmp

Security setting

Confirmation items	Setting
Windows Update [Start] - [Windows System] - [Command Prompt (right-click)] - [More] - [Run as administrator] - Input "gpedit.msc" and press the Enter key - [Local Group Policy Editor] is opened. [Computer Configuration] - [Administrative Templates] - [Windows Components] - [WindowsUpdates]	Configure Automatic Updates: Disable
Microsoft Defender [Start] - [Windows System] - [Command Prompt (right-click)] - [More] - [Run as administrator] - Input "gpedit.msc" and press the Enter key - [Local Group Policy Editor] is opened. [Computer Configuration] - [Administrative Templates] - [Windows Components] - [Microsoft Defender Antivirus] - [Real-time Protection]	Turn off real-time protection: Enabled

Performance setting

Confirmation items	Setting
Select a power plan [Start] - [Windows System] - [Control Panel] - [Hardware and Sound] - [Power Options]	High performance
[Change plan settings] - [Turn off the display]	Never
[Change plan settings]] - [Put the computer to sleep]	Never
[Change advanced power settings] - [Hard disk] - [Turn off hard disk after]	"0"
[Change advanced power settings] - [Sleep] - [Sleep after]	Never
[Change advanced power settings] - [Sleep] - [Hibernate after]	Never

Confirmation items	Setting
[Change advanced power settings] - [Sleep]] - [Allow wake timers]	Disable
[Change advanced power settings] - [USB settings] - [USB selective suspend setting]	Disable
[Change advanced power settings] - [PCI Express] - [Link State Power Management]	Off
[Start] - [Windows System] - [Control Panel] - [Hardware and Sound] - [Power Options] - [Choose what the power buttons do]	Turn on fast startup: Uncheck
USB hub power settings USB hub power settings [Device Manager] - [Universal Serial Bus controllers] - [USB Root Hub(3.0)] - [Properties] - [Power Management]	Allow the computer to turn off this device to save power: Uncheck
COM Settings [Device Manager] - [Ports (COM&LPT)] - [Communications Port (COM1)] - [Port Settings] Tab - [Advanced] - [COM Port Number]	COM1
.NETFramework [Start] (right-click) - [Run] - Input "regedit" and press the Enter key - [Registry Editor] is opened. [Computer] - [HKEY_LOCAL_MACHINE] - [SOFTWARE] - [Microsoft] - [NET Framework Setup] - [NDP] - [v4] - [Full] -> Check value of REG_DWORD described in [Release].	.NET4.8 (value of Release DWORD: 528449)
Graphic settings	
[Start] - [NVIDIA Control Panel] - [Adjust Image Settings with Preview]	[Use my preference emphasizing]: Performance
[Start] - [NVIDIA Control Panel] - [View system topology]	Ver.473.47
Additional user (LOG IN user)	
Computer Name [Start] - [Windows System] - [Control Panel] - [System and Security] - [System] - [Change settings] - [Computer Name] - [Change] Changing computer name, select [Restart later].	Computer Name: OLYMPUS-PC
Interactive logon [Start] (right-click) - ([Search]) - enter "local" - click [Local Security Policy] - [Local Policy] - double click [Security Options]	Interactive logon: Don't display last signed-in: Disabled (No change from default)
Auto login Insert the installation medium into the disk drive. Double-click AutoLogin.reg in the following folder in the installation medium. **D:\DSX10-BSW\Kitting** Set according to the displayed registry editor screen.	Automatic logon to the operating system
Installation software	
Pre-installed app	• PDF browser (Microsoft Edge)

OS (Windows11) Settings

Before setting the OS, you must activate Windows by connecting the controller PC to the network.

1. Connect the controller PC to the network.
2. Click [Start] - [Settings] - [Update & Security] - [Activation] - [Troubleshoot].
3. When [Troubleshoot has completed] appears, click [Activate Windows].
4. Make sure that [Windows 11 is Activated with a Digital license] is display, and close all of the setting screen.
5. Disconnect the controller PC from the network.

Confirmation items	Setting
BIOS	
[Start] (right-click) - [Search] - Input "SystemInfo" Click [System Information].	BIOS Version or later in BIOS Settings
OS	
edition [Start] - [Setting] - [System] - [About]	Windows 11 Pro
version [Start] - [Setting] - [System] - [About]	21H2 / 22H2
Windows setup	
Region [Start] - [Settings] - [Time & language] - [language & reginon] - [Windows display language]	United States
Time & language [Start] - [Settings] - [Time & language] - [language & reginon] - [Regional format] or [Start] - [Time & language] - [language & reginon] - [Administrative languages settings] - [Formats] tab	Match Windows display language (recommended)
Keyboard layout [Start] - [Settings] - [Time & language] - [Typing] - [Advanced keyboard settings] - [Override for default input method]	Use language list (recommended)
Setting time zone [Start] - [Settings] - [Time & language] - [Data and Time] - [Time zone]	Local time
[Display] property setting	
Screen saver [Start] - [Settings] - [Personalization] - [Lock screen] - [screen saver]	Screen saver: None
	On resume, display logon screen: OFF
Taskbar [Start] - [Settings] - [Personalization] - [Taskbar] - [Taskbar behaviors]	Automatically hide the taskbar: ON
	Taskbar alignment: Center (No change from default)

Confirmation items	Setting
Background Insert the installation medium into the disk drive. Copy the "OLYMPUS_Microscope_2560 x 1600.bmp" in the medium folder (**D:\DSX10-BSW\Kitting**) into the following folder. **C:\Users\Public\Pictures** (If your DVD drive is not the D drive, change "D" to the character of your DVD drive.) Right-click the image, select [Set as desktop background].	 OLYMPUS_Microscope_2560 x 1600.bmp
Lock (Sign out) wallpaper Insert the installation medium into the disk drive. Copy "BACKGROUNDDEFAULT.jpg" in the medium folder (**D:\DSX10-BSW\Kitting**) into the following folder. **C:\Windows\Web\Screen** Click [Start] - [Settings] - [Personalization] - [Lock screen]. Click the down arrow button in the background, select [Image] and click [Browse]. Select "BACKGROUNDDEFAULT.jpg" in **C:\Windows\Web\Screen**.	 BACKGROUNDDEFAULT.jpg
Login account icon Insert the installation medium into the disk drive. Copy "OLYMPUS_icon.bmp" in the medium folder (**D:\DSX10-BSW\Kitting**) into the following folder. **C:\Users\Public\Pictures** Click [Start] - [Settings] - [Accounts]. Click [Browse] under [Create your picture] - [Your picture], select "OLYMPUS_icon.bmp" in **C:\Users\Public\Pictures**.	 OLYMPUS_icon.bmp
Security setting	
Setting Windows Update [Start] - [All apps] - [Windows Tools] - [Command Prompt (Run as administrator)] - Input "gpedit.msc" and press the Enter key - [Local Computer Policyr] is opened. [Computer Configuration] - [Administrative Templates] - [Windows Components] - [Windows Update] - [Manage end user experience]	Configure Automatic Updates: Disable
Windows Defender [Start] - [All apps] - [Windows Tools] - [Command Prompt (Run as administrator)] - Input "gpedit.msc" and press the Enter key - [Local Computer Policyr] is opened. [Computer Configuration] - [Administrative Templates] - [Windows Components] - [Microsoft Defender Antivirus] - [Teal-time Protection]	Turn off real-time protection:Enabled
Performance setting	
Select power options [Start] - [All apps] - [Windows Tools] - [Control Panel] - [Hardware and sound] - [Power Options] - ([Show additional plans])	High performance
[Change plan settings] - [Turn off the display]	Never
[Change plan settings] - [put the computer to sleep]	Never
[Change advanced power settings] - [Hard disk] - [Turn off hard disk after]	"0"
[Change advanced power settings] - [Sleep] - [Sleep after]	Never

Confirmation items	Setting
[Change advanced power settings] - [Sleep] - [Hibernate after]	Never
[Change advanced power settings] - [Sleep] - [Allow wake timers]	Disable
[Change advanced power settings] - [USB settings] - [USB selective suspend setting]	Disable
[Change advanced power settings] - [PCI Express] - [Link State Power Management]	Off
Shutdown settings [Start] - [All apps] - [Windows Tools] - [Control Panel] - [Hardware and sound] - [Power Options] - [Choose what the power buttons do] - [Change settings that are currently unavailable]	[Turn on fast startup] checkbox: no check
[Start (right-click)] - [Device Manager] - [Universal Serial Bus Controllers] - [USB Root Hub(USB3.0)] - [Properties] - [Power Management]	Allow the computer to turn off this device to save power: no check
[Start (right-click)] - [Device Manager] - [Ports (COM & LPT)] - [Communications Port (COM1)] - [Port Settings] - [Advanced] - [COM Port Number]	COM1
.NETFramework [Start] (right-click) - [Run] - Input "regedit" and press the Enter key - [Registry Editorr] is opened. [Computer] - [HKEY_LOCAL_MACHINE] - [SOFTWARE] - [Microsoft] - [NET Framework Setup] - [NDP] - [v4] - [Full] -> Check value of [REG_DWORD] described in [Release].	HP Z2 SFF G9 Workstation: .NET4.8 (value of Release: 528449 / 533320)

Graphic settings

[Start] - [All apps] - [NVIDIA Control Panel] - [Adjust image settings with preview]	Use my preference emphasizing: Performance
[Start] - [All apps] - [NVIDIA Control Panel] - [View system topology]	Driver version: Ver.473.47

Additional user (LOG IN user)

Computer name: [Start] - [Setting] - [System] - [About] - [Rename this PC] Changing computer name, select [Restart later].	Computer name: Serial Number
Interactive logon: [Start] (right-click) - ([Search])- enter "local" - click [Local Security Policy] - [Local Policy] - double click [Security Options]	Interactive logon: Don't display last signed-in: Disabled (No change from default)

Installation software

Pre-installed application [Start]	The following is pre-installed. • PDF browser (Microsoft Edge)

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