Installation procedure

Software name - Details	File name	Ahead developing folder	Installation procedure	Installation procedure - details	Related driver etc.	Related driver etc. - details	Notice
Asset Tag Entry Application	assettag_d070967.exe	c:\util2\assettag	Others	The installation is unnecessary. Only the execution of exe.	yes	Panasonic Misc Driver,Panasonic Common Components	"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously.
Battery Recalibration Application	brecal_d070740.exe	c:\util2\brecal	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components	"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously.
Bluetooth Stack Driver (It cannot open to the public.)					yes	Wireless Switch Utility	
CPU Idle Setting Application	cpupower_d030520.exe	c:\util2\cpupower	Executing "setup.exe"		no		In the state of factory shipment, it has only put on "c:\util". (Installation is not done.)
DMI Viewer Application	dmi_d060603.exe	c:\util2\dmi	Executing "setup.exe"		no		
DVD Multi Driver	ramdrvr_d070905.exe	c:\util2\drivers\ramdrvr	Others	Run "c:\util2\drivers\ramdrvr\english\setup".	no		It becomes the one for DVD MULTI drive. Please start installation work after turning on a drive power supply. When a drive power supply is a state of OFF, it is displayed with "This machine does NOT support".
Economy mode(ECO) Setting Utility Application (Addition)	chgbmode_d070179.exe	c:\util2\chgbmode	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components	"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously.
Fan Control Utility Application	setfan_d070993.exe	c:\util2\setfan	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components	"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously.
Hotkey Appendix Application	hkeyapp_d071066.exe	c:\util2\hkeyapp	Executing "setup.exe"		yes	Hotkey Driver, Hotkey Settings,Panasonic Common Components,Panasonic Misc Driver	
Hotkey Driver	hotkey_d060970.exe	c:\util2\drivers\hotkey	Executing [Update driver..] in the device manager	[Other devices]-[Unknown device]→[Hotkey Driver...]	yes	Hotkey Appendix, Hotkey Settings	
Hotkey Settings Application	hkeyset_d070184.exe	c:\util2\hkeyset	Executing "setup.exe"		yes	Hotkey Driver, Hotkey Appendix	"Hotkey Appendix" and "Hotkey Driver" are installed previously.

Icon Enlarger Application	ienlarge_d040234.exe	c:\util2\ienlarge	Executing "setup.exe"		no		
Intel(R) Extended Thermal Model Driver	etm_d071197.exe	c:\util2\drivers\etm	Executing "setup.exe"		no		
LAN Driver	lan_d071084.exe	c:\util2\drivers\lan	Executing "setup.exe"	With pre-installation, It sets below. 1. Run [Update driver..] in the device manager. [Network adaptor]-[Marvell Yukon 88E...] 3. The check is applied to [Power Management] - [Allow this device to bring the computer out of standby]. and [Only allow management stations to bring the computer out of standby].	yes	LAN Power-Saving Utility	
LAN Power-Saving Utility	lanpsave_d070998.exe	c:\util2\lanpsave	Executing "setup.exe"		yes	LAN Driver	
Loupe Utility Application	loupe_d070025.exe	c:\util2\loupe	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components	
Matrix storage Manager Driver	ahci_d070319.exe	c:\util2\drivers\ahci	Executing "setup.exe"		yes	S-ATA HDD Driver	When clean installing it, "S-ATA HDD Driver" is necessary.
Modem Driver	modem_d070144.exe	c:\util2\drivers\modem	Executing [Update driver..] in the device manager	([Other devices]-[Modem Device on High Definition Audio Bus]	yes	Sound Driver	It is necessary to install "MS Q888111" before this driver is installed. Install "Sound Driver" first.
MS Update Module(Q888111)	q888111_d050984.exe	c:\util2\msupdate\q888111	Others	1. Run "kb888111xpsp2.exe". 2. Following to the indication of the picture, please install.	yes	HD Audio Driver(Sound,Modem)	Only English edition XP SP2 correspondence. In order to use HD Audio Driver with XP SP2, installation of this module is needed.
Optical Disc Drive Letter-Setting Utility Application	chgopdrv_d070878.exe	c:\util2\chgopdrv	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components	"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously.
Optical disc drive power-saving utility Application	opdoff_d070996.exe	c:\util2\opdoff	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components	"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously.
OS INF file Driver	intelinf_d070388-A.exe	c:\util2\drivers\intelinf	Executing "setup.exe"		no		Please install OS INF file before installing all drivers and all applications.
Panasonic Common Components Application	pcommon_d070182.exe	c:\util2\pcommon	Executing "setup.exe"		yes	Asset Tag Entry,Battery Recalibration,Loupe Utility,PC Information Viewer,Wireless Switch Utility	Install "Panasonic Common Components" and "Panasonic Misc Driver" before installing "Relating driver and application".

Name	File	Path	Install Method	Link	Reboot	Related driver and application	Note
Panasonic Misc Driver C	newmisc_d070614.exe	c:\util2\drivers\newmisc	Executing [Update driver..] in the device manager	1. Run [Update driver..] in the device manager. 　[Other devices]-[Unknown device] 3. Select "c:\util2\drivers\newmisc".	yes	Asset Tag Entry,Battery Recalibration,Loupe Utility,PC Information Viewer,Wireless Switch Utility	Install "Panasonic Common Components" and "Panasonic Misc Driver" before installing "Relating driver and application".
PC Information Popup Application	ppopup_d071140.exe	c:\util2\ppopup	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components,PC Information Viewer	・"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously. ・Install PC Information Viewer. (However, execute Panasonic Misc Driver and Panasonic Common Components previously.)
PC Information Viewer Application	pcinfo_d071151.exe	c:\util2\pcinfo	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components,PC Information Popup	"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously.
Power Saving Utility Application (Update)	setpsave_d071419.exe	c:\util2\setpsave	Executing "setup.exe"	https://eww.pavc.panasonic.co.jp/pc/cgi-bin/itn/members/toughbook-pt/dl02.cgi?main=12795	yes	Panasonic Misc Driver, Panasonic Common Components, Video Driver,Sound Driver,LAN Driver	・"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously.
S-ATA HDD Driver	f6fd_74_3_d070637.exe	c:\util2\drivers\f6fd	Others	https://eww.pavc.panasonic.co.jp/pc/cgi-bin/itn/members/toughbook-pt/dl02.cgi?main=12618	no	Matrix storage Manager	Only for clean installtion of Windows. Select "Intel(R) 82801HEM/HBM SATA AHCI Controller (Mobile ICH8M-E/M)" at a scene to select the driver which install.
SD Secure DLL Driver	sda_d061045.exe	c:\util2\drivers\sd	Others		yes		Make sda folder and copy "c:\util2\drivers\sd\sdpabus.dll" in "C:\Windows\System32\sda".
SD Utility Application	sdkey_d071087.exe	c:\util2\sdkey	Executing "setup.exe"		yes	SD Secure DLL	
Selective Suspend Mode Changer Application	selsusch_d060069.exe	c:\util2\selsusch	Executing "setup.exe"		no		In the state of factory shipment, it has only put on "c:\util\selsusch".
Sound Driver	sound_d070966-A.exe	c:\util2\drivers\sound	Others	1. Please execute "setADireg.js" after executing "c:\util2\drivers\sound\setup.exe". 2. Reboot the computer.	yes	Modem Driver	It is necessary to install "MS Q888111" before this driver is installed.
Touch Pad Driver	mouse_d070999.exe	c:\util2\drivers\mouse	Executing "setup.exe"		yes	Wheel Pad Utility	
TPM Driver	tpm_d051137.exe	c:\util2\drivers\tpm	Others		no		As for details please refer to "C:\util2\drives\tpm\READ ME.PDF" *Only TPM model.

Note: The "Run "C:\util2\drivers\tpm\Infineon\setup"." appears in the Install Method / instructions column for TPM Driver.

USB Power Save Mode Switching Utility Application	usbpower_d070494.exe	c:\util2\usbpower	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components,Touch Pad Driver	・"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously. ・In the state of factory shipment, it has only put on "c:\util". (Installation is not done.)
Video Driver	video_d071156.exe	c:\util2\drivers\video	Others	1. Run "c:\util2\drivers\video\setup.exe". 3. Executing "c:\util2\video2\VGAup.bat" 5. Reboot the computer. With pre-installation, It sets below. 1. The tab of "[Control Panel] - [Appearance and Themes] - [Display] - [Settings] - [Advanced] - [Intel(R) Graphics...]" is opened. 2.The button of "Graphics Propeties..." is pushed. 3."Power Settings" of "Display Settings" is pushed. 4. The check on "Intel(R) Display Power Saving Technology (DPST)" is removed and [OK] is pushed.	no		
Video Driver (Update)	video_d071293.exe	c:\util2\drivers\video	Others	https://eww.pavc.panasonic.co.jp/pc/cgi-bin/itn/members/toughbook-pt/dl02.cgi?main=13138	no		
Wheel Pad Utility Application	wheelpad_d071011.exe	c:\util2\wheelpad	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components,TouchPad Driver	・"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously. ・Install TouchPad Driver. (However, execute Panasonic Misc Driver and Panasonic Common Components previously.)
Wireless Connection Disable Utility Application	wdisable_d071157.exe	c:\util2\wdisable	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Conponents,Wireless Switch Utility	・"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously. ・Install Wireless Switch Utility. (However, execute Panasonic Misc Driver and Panasonic Common Components previously.) ・In the state of factory shipment, it has only put on "c:\util". (Installation is not done.)

Wireless LAN Driver	wlan_d071118.exe	c:\util2\drivers\wlan	Others	1. Run "c:\util2\drivers\wlan\Vista\Drivers\V32\iProDifX.exe". 2. Reboot the computer. 3. Select [Device manager]-[Intel(R) PRO/Wireless 4965AG] proparty.. 4.It is confirmed that there is a check in the value of "802.11b/g" in [Advanced]-[Property]-[Ad Hoc Channel]. 6. Regarding [Advanced]-[Property]-[Power Management], remove the check of [Use default value] check box. 7. Step up two level from the Lowest. [Install Intel Proset](Go if necessary)(In the state of factory shipment, the installation is done.) 1. Run "c:\util2\drivers\wlan\XP\Apps\X32\install.bat". 2. Select installation. 3. Select Typical (standard) at Setup Type. 4. Reboot the computer. 5.Please execute [2.] again.	yes	Wireless Switch Utility	Only touchscreen model can develop.
Wireless LAN Driver (Update)	wlan_d080215.exe		Others	https://eww.pavc.panasonic.co.jp/pc/cgi-bin/itn/members/toughbook-pt/dl02.cgi?main=13860	no		
Wireless Switch Utility Application	wswitch_d071067.exe	c:\util2\wswitch	Executing "setup.exe"		yes	Panasonic Misc Driver,Panasonic Common Components,Wireless LAN Driver,Hotkey Appendix,Hotkey Driver	・"Panasonic Misc Driver" and "Panasonic Common Components Application" are installed previously. ・Install Hotkey Appendix、Hotkey Driver. (However, execute Panasonic Misc Driver and Panasonic Common Components previously.)