Dell Precision 5680

Dell Precision 5680 Workstation Laptop User Manual

Model: Precision 5680

INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Dell Precision 5680 workstation laptop. Please read these instructions carefully to ensure proper use and longevity of your device.

INITIAL SETUP

Unboxing and First Power On

Carefully remove the Dell Precision 5680 laptop and its accessories from the packaging. Ensure all components, including the 165W E5 USB-C Adapter, are present.

1. Connect the 165W E5 USB-C Adapter to the laptop's USB-C charging port and a power outlet.

2. Open the laptop lid. The system may power on automatically, or you may need to press the power button located on the keyboard deck.

3. Follow the on-screen prompts to complete the initial Windows 11 Pro setup, including language selection, network connection, and user account creation.

Image: Right side view of the Dell Precision 5680, illustrating the various ports available for connectivity.

Connecting Peripherals

The Dell Precision 5680 offers a range of ports for connecting external devices:

- **USB-C Ports (including Thunderbolt 4):** Use these for high-speed data transfer, external displays, and charging.
- **HDMI Port:** Connect to external monitors or projectors.
- **Full Size SD Card Slot:** For reading and writing data from SD cards.
- **Headphone/Microphone Combo Port:** For audio input and output.
- **USB 2.0/3.0 Ports:** For connecting standard USB devices.

OPERATING YOUR DELL PRECISION 5680

Keyboard and Touchpad

The laptop features an integrated backlit keyboard and a precision touchpad. The keyboard includes a fingerprint reader for secure login.

- **Backlit Keyboard:** Adjust backlight intensity using the function keys (Fn + F10, or similar, refer to on-screen indicators).
- **Fingerprint Reader:** Set up your fingerprint for Windows Hello login in the Windows Settings under 'Accounts' > 'Sign-in options'.
- **Touchpad:** Supports multi-touch gestures for navigation. Customize settings in Windows Settings > 'Bluetooth & devices' > 'Touchpad'.

Image: Top-down view of the Dell Precision 5680, highlighting the keyboard, touchpad, and display.

Display Features

The 16-inch FHD+ (1920x1200) IPS display offers 500-Nit brightness and 100% DCI-P3 color coverage. An IR webcam is integrated above the display.

- **Brightness Adjustment:** Use the dedicated function keys (e.g., Fn + F11/F12) to adjust screen brightness.
- **External Display:** Connect an external monitor via the HDMI or Thunderbolt 4 ports. Configure display settings in Windows Settings > 'System' > 'Display'.
- **IR Webcam:** Used for video conferencing and Windows Hello facial recognition.

Wireless Connectivity

The laptop supports Intel AX211 WiFi 6E and Bluetooth for wireless connections.

- **Wi-Fi:** Access Wi-Fi networks through the network icon in the Windows taskbar.
- **Bluetooth:** Pair Bluetooth devices (e.g., headphones, mice) via Windows Settings > 'Bluetooth & devices'.

Power Management

The Dell Precision 5680 is equipped with a 100Whr 6-Cell Long Life Battery.

- **Charging:** Always use the provided 165W E5 USB-C Adapter for optimal charging.
- **Battery Life:** To maximize battery life, adjust power settings in Windows, reduce screen brightness, and close unnecessary applications.
- **Sleep/Hibernate:** Utilize sleep or hibernate modes to conserve power when not actively using the laptop.

MAINTENANCE AND CARE

Cleaning

- **Screen:** Use a soft, lint-free cloth lightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Keyboard and Chassis:** Use a soft cloth. For dust, use compressed air.

Software Updates

Regularly update your operating system and drivers to ensure optimal performance and security.

- **Windows Updates:** Check for updates in Windows Settings > 'Windows Update'.
- **Dell Drivers:** Visit the official Dell support website for the Precision 5680 model to download the latest drivers and firmware.

Battery Care

To prolong battery lifespan, avoid extreme temperatures and do not leave the laptop fully charged or fully discharged for extended periods.

Storage

When storing the laptop for an extended period, ensure it is powered off and stored in a cool, dry place. Consider charging the battery to around 50-60% before long-term storage.

TROUBLESHOOTING COMMON ISSUES

Power Issues

- **Laptop not turning on:** Ensure the power adapter is securely connected and the outlet is functional. Try holding the power button for 15-20 seconds to perform a hard reset.
- **Battery not charging:** Verify the power adapter is the correct one (165W E5 USB-C) and is not damaged. Check the charging port for debris.

Display Problems

- **No display:** Connect an external monitor to check if the issue is with the laptop's internal display. Restart the laptop.
- **Flickering screen:** Update graphics drivers. Adjust display refresh rate in Windows settings.

Connectivity Issues

- **Wi-Fi not connecting:** Restart the laptop and your Wi-Fi router. Ensure Wi-Fi is enabled in Windows settings. Update Wi-Fi drivers.
- **Bluetooth device not pairing:** Ensure the Bluetooth device is in pairing mode. Check Bluetooth settings in Windows and update Bluetooth drivers.

Performance Problems

- **Slow performance:** Close unnecessary applications. Check Task Manager for high resource usage. Ensure sufficient free storage space.
- **Overheating:** Ensure ventilation vents are clear. Use the laptop on a hard, flat surface. Update drivers.

Fingerprint Reader Issues

- **Fingerprint not recognized:** Ensure your finger is clean and dry. Re-register your fingerprint in Windows Hello settings if issues persist.

TECHNICAL SPECIFICATIONS

Feature	Specification
Processor	Intel 13th Gen Core i7-13700H (14-Core, 20 Threads, up to 5.00Ghz Turbo)
RAM	32GB LPDDR5 6000Mhz
Storage	512GB PCIe M.2 Gen 4 SSD
Display	16" FHD+ (1920x1200) Non-Touch IPS, 500-Nit, 100% DCI-P3
Graphics	NVIDIA RTX A1000 6GB GDDR6
Operating System	Windows 11 Pro
Wireless Connectivity	Intel AX211 WiFi 6E + Bluetooth
Ports	Full Size SD, USB-C, Lock Slot, HDMI, Headphone/Mic, (2) Thunderbolt 4, USB 2.0, USB 3.0
Battery	100Whr 6-Cell Long Life Battery
Weight	Approximately 4.20 lbs (1.91 kg)
Dimensions (LxWxH)	13.92 x 0.87 x 9.46 inches (353.5 x 22.1 x 240.3 mm)
Webcam	IR Webcam
Keyboard	Integrated Backlit Keyboard with Fingerprint Reader

WARRANTY AND SUPPORT

Your Dell Precision 5680 laptop comes with a 3-Year Factory On-Site Premium Warranty. For warranty claims, technical assistance, or further support, please contact Dell customer service directly.

You can find contact information and additional resources on the official Dell support website. Please have your service tag or express service code ready when contacting support.