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TECLAST P50 AI

TECLAST P50 AI Tablet User Manual

Model: P50 AI

1. Introduction

Welcome to the TECLAST P50 AI Tablet User Manual. This guide provides essential information to help you set up, operate, and maintain your new 11-inch Android 15 tablet. The TECLAST P50 AI features an Allwinner A733 octa-core AI processor, 16GB RAM, 128GB storage, and a vibrant 90Hz display. It is designed to offer a smart and efficient user experience with advanced AI functionalities, versatile connectivity, and robust performance.

2. Package Contents

Please check the box for the following items:

- TECLAST P50 AI Tablet PC Unit × 1
- Charging Plug × 1
- USB Data Cable (Type-C) × 1
- User Manual × 1



Image: Contents of the TECLAST P50 AI tablet package, including the tablet, charger, USB cable, and user manual.

3. Device Layout

Familiarize yourself with the physical components of your TECLAST P50 AI tablet:



Image: Front and rear view of the TECLAST P50 AI tablet, highlighting the display, cameras, and overall design.

- **Power Button:** Located on the side, used to power on/off or wake/sleep the device.
- **Volume Buttons:** Located near the power button, used to adjust audio volume.
- **Front Camera:** Located on the bezel above the screen, used for video calls and selfies.
- **Rear Camera:** Located on the back of the tablet, used for taking photos and videos.
- **Dual Type-C Ports:** Located on the bottom edge, used for charging, data transfer, and video output.
- **MicroSD Card Slot:** Located on the side, for expanding storage.
- **3.5mm Headphone Jack:** Located on the side, for connecting wired headphones.
- **Speakers:** Located on the bottom edge, providing audio output.

4. Setup

4.1. Charging the Tablet

Before first use, it is recommended to fully charge your tablet. Connect the provided USB data cable to one of the tablet's Type-C ports and the charging plug. Plug the charger into a power outlet. The battery indicator on the screen will show the charging status. The tablet supports efficient Type-C charging.



Image: The TECLAST P50 AI tablet connected to a charger via its Type-C port, showing the battery charging indicator.

4.2. Powering On/Off

- **To Power On:** Press and hold the Power button on the side of the tablet until the screen lights up and the TECLAST logo appears.
- **To Power Off:** Press and hold the Power button until a menu appears on the screen. Select 'Power off' from the options.
- **To Restart:** From the same menu, select 'Restart'.
- **To Sleep/Wake:** Briefly press the Power button to put the tablet to sleep or wake it up.

4.3. Initial Setup

The first time you power on your tablet, you will be guided through an initial setup process:

1. **Language Selection:** Choose your preferred language.
2. **Wi-Fi Connection:** Connect to an available Wi-Fi network to access the internet.
3. **Google Account:** Sign in with your Google account or create a new one. This is necessary to download apps from the Google Play Store and sync your data.
4. **Security Settings:** Set up a screen lock (PIN, pattern, or password) for device security.
5. **Date & Time:** Confirm or adjust date and time settings.
6. **Other Settings:** Follow any additional prompts to complete the setup.

5. Operating System (Android 15 Features)

The TECLAST P50 AI runs on the latest Android 15 OS, which is deeply optimized for 64-bit applications, resulting in improved startup and response speeds. It offers enhanced privacy protection and a more comprehensive user experience. Key features include:

- **Private Space:** Create a secure, hidden area for confidential applications and data, ensuring your privacy.
- **App Pairing:** Pair your most frequently used applications. With a single tap, you can launch both apps simultaneously in split-screen mode for efficient multitasking.
- **Fixed Taskbar:** Customize your taskbar with your favorite applications for quick and easy access.
- **Camera Sharing:** Connect your tablet to a PC via USB to easily share the tablet's camera. This feature is ideal for video calls, online meetings, and streaming on a computer without a built-in camera.



Image: Visual representation of Android 15 features on the TECLAST P50 AI, including Private Space, App Pairing, and Camera Sharing.

6. AI Features

The TECLAST P50 AI is the first tablet in Teclast's AI series, offering intelligent functions and high performance powered by its dedicated NPU (Neural Processing Unit). The NPU handles AI-based tasks faster and more efficiently than the CPU, providing a more innovative and efficient tablet experience. Key AI-driven functionalities include:

- **AI-SR Video Optimization:** Enhances video quality and resolution.
- **AI Color Optimization:** Intelligently adjusts colors for a more vibrant and realistic visual experience.
- **Local/Online Support:** Optimized for various local and online platforms.
- **AI Gesture Control:** Control your tablet with intuitive hand gestures.
- **AI Posture Recognition:** Detects and helps users maintain better posture.
- **AI Text Extraction:** Extracts text from images and documents for easy editing and sharing.
- **PC Mode:** Transforms the tablet interface to a desktop-like environment, enhancing productivity.



Image: An overview of the AI-powered computing features on the TECLAST P50 AI tablet, illustrating various AI functions.

7. Performance

The TECLAST P50 AI is equipped with an Allwinner A733 octa-core AI processor, achieving an AnTuTu benchmark score exceeding 320,000. This elite-level performance is delivered through a combination of high-performance A76 cores and power-efficient A55 cores. Additionally, a 3TOPS NPU is integrated specifically for AI tasks, ensuring smooth and responsive intelligent operations across all applications. The tablet also features an IMG BXM-4 graphics processor for an excellent gaming experience.



Image: Diagram illustrating the Allwinner A733 octa-core CPU and 3TOPS NPU architecture, highlighting the tablet's processing power.

8. Memory and Storage

The P50 AI tablet is designed for efficient multitasking and ample storage:

- **RAM:** Equipped with 16GB LPDDR5 memory (6GB physical + 10GB virtual expansion). LPDDR5 offers faster transfer speeds and reduced power consumption compared to LPDDR4X, extending device lifespan by over 10%.
- **Internal Storage:** Features 128GB of high-speed UFS storage, ensuring a smooth user experience with virtual memory expansion.
- **Expandable Storage:** A microSD card slot allows storage expansion up to 1TB (FAT32 format, microSD card sold separately), enabling you to store all your favorite media files.



Image: Visual representation of the LPDDR5 RAM and UFS 3.0 high-speed storage components within the TECLAST P50 AI tablet.

9. Display

The TECLAST P50 AI features an 11-inch IPS display that delivers a vibrant and realistic viewing experience:

- **Size & Resolution:** 11-inch IPS display with 1280x800 resolution.
- **Color Optimization:** Integrates T-Colour 6.0 color optimization technology for enhanced visual clarity.
- **High Refresh Rate:** A 90Hz refresh rate provides seamless gaming and smooth web browsing.
- **AdaptiveSync:** The 90Hz AdaptiveSync display automatically adjusts to lower frame rates to save power and extend battery life during browsing or other applications.
- **Smooth Touch:** Features a full-laminated TDDI design with up to 180Hz touch sampling rate for enhanced touch sensitivity and a smooth touch experience.

Note: *Face recognition, GPS, and LTE connectivity are not supported on this device.*



Image: The 11-inch IPS display of the TECLAST P50 AI tablet, highlighting its 90Hz refresh rate and T-Colour 6.0 technology.

10. Connectivity

The TECLAST P50 AI offers robust connectivity options:

- **Wi-Fi 6:** Supports faster and lower-latency Wi-Fi 6 wireless network connections for a more comfortable online experience.
- **Bluetooth 5.4:** Features low-power BT 5.4, supporting the LDAC HD coding format for superior wireless audio quality.
- **Dual Type-C Ports:** Equipped with two Type-C ports that can be used simultaneously. The primary port supports 5Gbps data transfer, DisplayPort HD video/audio output, USB-C charging, and external USB hubs.



Image: Icons representing Wi-Fi 6 and Bluetooth 5.4 connectivity on the TECLAST P50 AI tablet.

11. Camera

Capture moments and stay connected with the tablet's camera system:

- **Rear Camera:** 13MP autofocus lens with an AI secondary camera for faster focusing and shooting. A fill light is included to enhance shooting effects in dark environments.
- **Front Camera:** 5MP camera for smoother and clearer video calls.



Image: Close-up of the TECLAST P50 AI tablet's rear camera module and a depiction of its front camera for video calls.

12. Audio

Experience immersive audio with the TECLAST P50 AI:

- **Stereo Speakers:** Features dual bottom-mounted floating sound stereo speakers with external amplifier devices and digital amplifiers.
- **AI Audio Tuning:** Combined with NPU analysis for external microphone input and intelligent AI adjustment, it delivers excellent sound quality.
- **3.5mm Headphone Jack:** A standard 3.5mm headphone jack is provided to accommodate various user preferences for private listening.



Image: Visual representation of the TECLAST P50 AI tablet's audio capabilities, including stereo speakers, digital amplifier, and 3.5mm headphone jack.

13. Battery and Charging

The TECLAST P50 AI is designed for extended use:

- **Battery Capacity:** Equipped with a large 7000mAh lithium polymer battery, providing longer battery life for extended usage.
- **Charging:** Supports Type-C charging for faster and more convenient power replenishment. The reversible Type-C connector offers high compatibility and improved charging efficiency compared to standard USB methods.

14. Maintenance

14.1. OTA Software Updates

TECLAST provides continuous software optimization and bug fixes through Over-The-Air (OTA) updates. It is recommended to keep your tablet's software up to date for optimal performance and stability.

- **Checking for Updates:** Go to [Settings] → [Tablet Information] → [Wireless Update].
- **Resolving Volume Issues:** If you experience issues with volume being too loud even at minimum settings, update your system to the latest version (V1.24_20241224 or higher).
- **Resolving Power Consumption Issues:** If you experience abnormal power consumption, update your system via OTA. After the update, it is recommended to fully discharge the battery to 0% and then charge it to 100% to efficiently activate the battery.

14.2. Battery Care

- Avoid exposing the tablet to extreme temperatures.
- Do not let the battery completely drain for extended periods.
- Use only the provided charger or a certified compatible charger.

15. Troubleshooting

If you encounter any issues with your TECLAST P50 AI tablet, please refer to the following common solutions:

- **Tablet Not Turning On:** Ensure the tablet is charged. Connect it to the charger and wait a few minutes before attempting to power it on again.
- **Screen Unresponsive:** Try restarting the tablet by holding down the power button for about 10-15 seconds until it reboots.
- **Wi-Fi Connection Issues:** Ensure Wi-Fi is enabled. Try restarting your router and the tablet. Forget the network and reconnect.
- **Apps Crashing/Freezing:** Close the app and reopen it. Clear the app's cache and data in [Settings] → [Apps]. Ensure the app is updated to the latest version.
- **Slow Performance:** Close unnecessary background apps. Clear cache regularly. Check for system updates.
- **Battery Draining Quickly:** Adjust screen brightness. Turn off Wi-Fi/Bluetooth when not in use. Close background

apps. Check for system updates as mentioned in the Maintenance section.

For issues not covered here, please contact TECLAST customer service for assistance.

16. Specifications

Feature	Specification
Brand	TECLAST
Model Name	TECLAST P50 AI
Memory Storage Capacity	128 GB
Screen Size	11 Inches
Display Max Resolution	800×1280 Pixels
Generation	1st Generation
Release Year/Model Year	2024
Included Components	Tablet PC Unit × 1, Charging Plug × 1, USB Data Cable × 1, User Manual × 1
Warranty Content	1 Year Manufacturer Warranty
Product Use	Entertainment
Battery Capacity	7000 mAh
Battery Cell Type	Lithium Polymer
Voltage	7000 mAh
Lithium Battery Packaging Form	19 Watt-hours
Computer CPU Speed	2 GHz
Processor Description	Allwinner, Allwinner A733
Computer CPU Manufacturer	Allwinner
CPU	A733 8-Core CPU
CPU Model Max Speed	2 GHz
Camera Description	Front, Rear
Rear Camera Photosensor Resolution	13.08 MP
Front Camera Sensor Resolution	5 MP
Number of Rear Cameras	1
OS	Android 15 OS

Feature	Specification
GPU Manufacturer	ARM
Product Dimensions (L x W x T)	25.8 x 0.8 x 17 cm
Graphics Hardware	IMG BXM-4-64 MC1
Touchscreen, Voice Recognition, Other Features	Touchscreen
Graphics Description	Integrated
Display Type	IPS
Native Resolution	1280x800 Pixels
Aspect Ratio	16:10
Display Max Brightness	350 cd/m²
Display Refresh Rate (Hz)	90
Max Memory Capacity (GB)	128 GB
Built-in Memory Capacity	16 GB
Memory Slot Count and Type	1
Flash Memory Max Supported Size	128 GB
Hardware Interface	MicroSD, USB 3.0 Type-C
Wireless Type	Bluetooth, Wi-Fi (LTE not supported)
Mobile Phone Technology	WiFi
Number of USB Ports	2
Communication/Connection Interface	Bluetooth, USB, Wi-Fi
Wireless Communication Standard	802.11ac, 802.11ax
Product Additional Description 1	AI Algorithm Function
GPS Location Tagging Function	GPS Not Supported
Headphone Jack	3.5mm

17. Warranty and Support

TECLAST is committed to customer satisfaction and provides comprehensive support for your P50 AI tablet.

17.1. Warranty Information

- **Warranty Period:** Your TECLAST P50 AI tablet comes with a 12-month warranty from the date of purchase.
- **Refund Policy:** A 30-day refund period is also provided.

17.2. How to Contact Support

If you need assistance, have questions, or wish to claim warranty service, please use one of the following methods:

- **Via Amazon Account:**
    1. Log in to your Amazon account.
    2. Go to 'Order History'.
    3. Select the relevant order for your TECLAST P50 AI tablet.
    4. Click on 'Contact Seller'.
- **Via Product Page:**
    1. Navigate to the TECLAST P50 AI product page on Amazon.
    2. Below the 'Add to Cart' button, click on the store name 'TECLAST JP'.
    3. On the store page, click on 'Ask a question' in the top right corner to send an email.

When contacting support, please provide your order number, product model, and a detailed description of the issue for faster resolution.

17.3. Support Hours

- **Email Inquiries:** Supported in Japanese.
- **Operating Hours:** Monday to Friday, 10:00 AM to 7:00 PM (JST).
- **Response Time:** Inquiries received after 7:00 PM on weekdays or on holidays will be answered on the next business day.



Image: TECLAST customer support representative with a '12-month peace of mind warranty' badge, indicating reliable after-sales service.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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