

TCL RayNeo Air 4 Pro User Manual

Model: TCL RayNeo Air 4 Pro (Smart Display Glasses)

1. Package Contents

- 1 Pair of TCL RayNeo Air 4 Pro Smart Glasses
- 1 USB-C Charging Cable
- 1 Protective Case
- 1 Cleaning Cloth
- Adjustable Nose Pads (3 levels)
- Sound Guide Fins (accessory)
- Quick Start Guide & Warranty Card

2. Charging Instructions

2.1 Charging the Smart Glasses

Connect the included USB-C charging cable to the USB-C port at the end of the glasses temple, then plug the other end into a 5V USB charger (phone charger, power bank, or computer USB port). Use the original cable or a 3C-certified cable for safety and efficiency.

Charging Indicator (on the temple):

- Solid Red: Charging in progress
- Solid Green: Fully charged
- Blinking Red: Low battery ($\leq 20\%$) or charging error

2.2 Battery Care & Life

The glasses are equipped with a lithium-ion battery, which is pre-activated at the factory—no manual activation is required. Proper care can extend battery life significantly.

- Charging Time: Approximately 1.5-2 hours for a full charge
- Continuous Usage Time: Up to 4-5 hours (varies by brightness and audio settings)
- Battery Care Tips: Keep the battery level between 20%-80% for daily use; avoid overcharging or fully draining the battery; charge in a well-ventilated environment at 16°C-25°C.

3. Connection Guide

3.1 Wired Connection (Recommended)

The glasses support DP protocol via the USB-C port, which can be connected directly to most smartphones, laptops, tablets, or TCL RayNeo Magic Box 2 for display output.

1. Connect one end of the USB-C cable to the glasses’ USB-C port.
2. Connect the other end to your device’ s USB-C port (ensure the device supports video output).
3. The glasses will automatically turn on and display the device’ s screen; no additional pairing is needed.

3.2 Notes on Connection

- If your device does not support direct video output, use a compatible USB-C adapter (e.g., USB-C to HDMI adapter).
- When connected to a smartphone, the 6-inch phone screen can be expanded to a 135-inch immersive large screen for viewing videos or photos.
- HDR videos played on the connected device will automatically activate the glasses’ HDR10 display function.

4. Basic Operations

Function	Operation
Turn On/Off	Press and hold the power button on the temple for 3 seconds
Adjust Brightness	Short press the brightness + / - buttons on the temple
Adjust Volume	Short press the volume + / - buttons on the temple
Switch Picture Mode	Press and hold the brightness + button for 2 seconds (cycle between Standard/Movie/Eye-Care 2.0)
Switch Audio Mode	Press and hold the volume + button for 2 seconds

	(cycle between Whisper/Surround Mode); not applicable when sound guide fins are used.
Activate AI HDR/AI 3D	Press and hold the brightness - and volume - buttons simultaneously for 3 seconds (toggle on/off).

5. Key Features & Specifications

5.1 Core Features

- **HDR10 Display:** The world’s first smart display glasses supporting HDR10, with 1200nits peak brightness and 10.7 billion colors output.
- **Image Quality:** Equipped with Pixelworks Vision 4000 custom image quality chip, 5.5th-generation dual Micro-OLED screens, 145% SRGB and 98% DCI-P3 color gamut, 49 PPD (no obvious screen door effect).
- **Audio:** Co-tuned with Bang & Olufsen (B&O), 4 speakers with large-area polymer diaphragm and independent DAC chip; sound guide fins reduce 80% sound loss.
- **AI Functions:** Supports AI HDR (SDR to HDR conversion) and AI 3D (2D to 3D conversion) for enhanced viewing experience.
- **Ergonomics:** 76g lightweight design, 9-level adjustable temples, 3-level adjustable nose pads with silicone cushions; supports myopia glasses matching.

5.2 Technical Specifications

- **Display Resolution:** 1080P
- **Peak Brightness:** 1200nits
- **Refresh Rate:** 3840Hz PWM mixed dimming
- **Color Gamut:** 145% SRGB, 98% DCI-P3
- **Connection Port:** USB-C (supports DP protocol)
- **Weight:** 76g (whole machine)
- **Audio:** B&O co-tuned 4 speakers
- **Image Quality Chip:** Pixelworks Vision 4000

6. Troubleshooting

6.1 No Display / Screen Black

- Check if the glasses are fully charged; if not, charge for at least 30 minutes.
- Reconnect the USB-C cable to ensure it is plugged firmly; try replacing the cable or charger.
- Verify that the connected device supports video output; use a compatible adapter if needed.

6.2 Poor Image Quality / Color Distortion

- Switch to the appropriate picture mode (Movie Mode for original color, Standard Mode for daily use).
- Adjust the brightness to match the ambient light; avoid using in strong direct sunlight.
- Clean the lenses with the included cleaning cloth to remove fingerprints or dust.

6.3 No Sound / Poor Sound Quality

- Adjust the volume using the volume buttons on the temple.
- Check if the sound guide fins are properly installed (if used); ensure they are aligned with the ear canal.
- Switch audio modes to match the environment (Whisper Mode for quiet places, Surround Mode for immersive experience).

6.4 Factory Reset

If the glasses malfunction, perform a factory reset:

1. Turn off the glasses.
2. Press and hold the power button and brightness - button simultaneously for 10 seconds.
3. The indicator will flash red and green alternately, indicating a successful reset.
4. Turn on the glasses again; they will return to factory settings.

7. Safety & Care

- Avoid using the glasses in extreme temperatures (below 0°C / 32°F or above 45°C / 113°F) to prevent battery damage or display malfunctions.
- Do not immerse the glasses in water or expose them to heavy rain; keep them away from moisture and dust.
- Clean the lenses and body gently with the included dry, soft cloth; do not use harsh chemicals or abrasive materials.
- Avoid dropping the glasses or applying strong pressure to the temples or lenses, as this may damage internal components or the display.

- Do not disassemble the glasses; this will void the warranty. Contact official after-sales service for repairs if needed.
- Do not use the glasses for a long time without rest; take a 10-15 minute break every hour to protect your eyes.

For more detailed information, visit the official TCL RayNeo support website or refer to the full warranty documentation included in the package.

（注：文档部分内容可能由 AI 生成）