

TCL



TCL 50_{SE}

6.78" FHD+ 90HZ NXTVISION Display

256GB + 6GB+6GB Large Memory

33W Fast Charging

50MP AI Hybrid Camera

6.78"
FHD+
90Hz

50
MP

MTK
G88

256GB_{ROM}
6GB_{RAM}
4GB_{RAM}
128GB_{ROM}

3D sound

5010
mAh
33W

* The RAM and ROM may vary in different variants.

DESIGN

Dimensions: 168.16*75.53*8.09mm
 Weight: 195g (TBD)
 Side keys: 2 (Volume Key & fingerprint 2-in-1 & Power Key)
 Finish: 2D Fiberglass back cover, 2.5D NXPAPER display
 Colors: Midnight Blue / Space Gray

DISPLAY

Size: 6.78" Hole display
 Refresh rate:90Hz
 Resolution: FHD+ (1080*2460 resolution)
 Screen-to-body ratio: VA:TP= 91% ; VA:BD= 87%
 Glass type: 2.5D glass
 Aspect ratio: 20.5:9
 Technology: Capacitive touchscreen
 Contrast ratio: 1500:1 (Typ.)
 Color gamut: 396 PPI, NTSC 96%(Typ.)
 Brightness (nits): 550nits brightness (Typ.)
 Anti-fingerprint coating: Yes

BATTERY

Capacity: 5010mAh (typical)
 Charger: up to 33W fast charging, Type-C USB 2.0
 Standby time: 630h (4G)
 Talking Time : 27h (4G)
 DOU Value (Hours): 1.5hours **(TBD)***

PERFORMANCE

OS: Android™ 14 (support OS upgrade to Android 15)
 Chipset: MediaTek Helio G88(MT6769)
 CPU: Octa-Core, 2x2.0 GHz Cortex-A75 & 6x1.8 GHz Cortex-A55
 GPU: Mali-G52 MC2

REAR CAMERA

50MP main camera:
 PDAF, sensor size 1/2.76", pixel size 0.64µm, aperture F1.8, field of view 74.2°, 5P lens
 2MP camera:
 FF, sensor size 1/5", pixel size 1.75µm, aperture F2.4, field of view 88.8°, 3P lens
 Video capture: 1080P @30FPS
 Video playback: 1080P @30FPS
 Features: Bokeh, HDR, Panorama, AI scene detection, Face detection, night mode, steady snap
Other features: Torch light

FRONT CAMERA

8MP camera:
 FF, sensor size 1/4", pixel size 1.12µm, aperture F2.0, field of view 77.7°, 4P lens
 Video capture: 1080p@30fps
 Video playback: 1080p@30fps
 Features: HDR, Face Beautification

MEMORY

RAM size: 12GB RAM (RAM Expansion 6GB + 6GB)
 ROM size: 256GB
 Available memory: around 230GB *
 microSD card: Supports MicroSD card up to 2TB
 *Actual internal storage available may depending on pre-installed software.

CONNECTIVITY

Bluetooth version: 5.1
 Audio jack: 3.5mm
 NFC: Yes

NETWORK

Sim card slots
 Dual SIM: 2 Nano SIM + 1 Micro SD
 Single SIM: 1 Nano SIM + 1 Micro SD*
 (The number of SIM cards varies by region.)
 4G data: Cat 4 DL 150Mbit/s, Cat5 UL 75Mbit/s
 3G data: HSPA+ (42Mbps DL, 11Mbps UL)
 2G data: GPRS/EDGE

4G Bands:
 B1/3/5/7/8/13/20/26/28/38/40/41(2496-2690MHz)

3G Bands:
 B1/2/5/8

2G Bands:
 850/900/1800/1900

802.11a/b/g/n/ac, 2.4GHz&5GHz, Wi-Fi direct, Wi-Fi display
 VoLTE, VoWiFi

AUTHENTICATION

Face Unlock, Fingerprint sensor (Side)

SENSOR

Location: BDS/GPS/Glonass/Galileo,with A-GPS
 Other: Accelerometer (G sensor), Proximity sensor, Light Sensor, E-Compass

AUDIO AND VIDEO

Audio playback format:
 AAC, HE-AAC v1, HE-AAC v2, AMR, AWB, MIDI, MP3, OGG
 VORBIS, WAV(Alaw/Ulaw), WAV(Raw), FLAC, OPUS
 Video playback format:
 1080P@30fps, MPEG2, H.263, MPEG4, H.264, H.265, VP8, VP9
 Speaker: 2
 Supported headsets: LRGM
 Features: 3D Boom sound + DTS effect

IN THE BOX

33W fast charger, Type C 2.0 cable (A-to C cable), LCD sticker,
 Quick guide, SIM card pin

Optional: PET protective Film, Gel Skin soft case (TPU case)

*Data comes from internal lab tests. Actual battery life may vary depending on personal usage (network strength, app use, etc.).