



# TCL 505

**Bigger Display, Bigger Memory.**

6.75"/90Hz High refresh rate display  
4GB+4GB RAM expansion  
50MP hybrid camera  
Stereo Dual Speakers

\*\* The 5MP front camera is interpolated from 2MP. The camera specifications apply to all variations except the T431Q model, which features 5MP rear and 2MP front cameras.

## DESIGN

Dimensions (HxWxD, mm): 168.29x76.67x8.32mm  
Weight: 190g  
Side keys: 2 (Volume Key & Power Key)  
Colors: Black, Blue

## DISPLAY

Size: 6.75 inch NXTVISION display  
Resolution: HD+ (720\*1600 resolution)  
Screen-to-body ratio: VA:TP=90.01% VA:BD=86.27%  
Glass type: 2.5D glass  
Touch technology: Capacitive  
Color gamut: 260 PPI, NTSC 69.3%(Typ.)  
Brightness (nits): Min 360nit, TYP 400nit  
Anti-fingerprint coating: Yes

## BATTERY

Capacity: 5010mAh  
Charging Technology: 10W  
Charging time (Hours): Around 3h  
DOU Value (Hours): 18hours \*

## PERFORMANCE

OS: Android 14 (1 次OS upgrade (Android 14 to 15))  
Chipset: MTK G36 (MT6765X)  
CPU Frequency: 4xA53@ 2.2GHz+4xA53@ 1.6GHz  
GPU: IMG GE8320 680MHz

## REAR CAMERA

Number of pixels: Dual  
**50MP Main Camera:**  
PDAF, sensor size 1/2.55", pixel size 0.7µm, aperture F1.8, field of view 79.4°, 5P lens  
**2MP Dual Camera:**  
FF, sensor size 1/5", pixel size 1.75µm, aperture F2.4, field of view 88.8°, 3P lens  
**Camera Flash:** Single tone  
Video capture: 1080P @30FPS  
Video playback: 1080P @30FPS  
Features: Bokeh,HDR,Panorama,AI scene detection,Face detection

## FRONT CAMERA

5MP camera:  
FF, sensor size 1/5", pixel size 1.12µm, aperture F2.2, field of view 76.8°, 3P lens  
Video capture: 1080p@30fps  
Video playback: 1080p@30fps  
Features: HDR, Face Beauty

## MEMORY

RAM size: 8GB (4GB + 4GB RAM expansion)  
ROM size: 128GB  
Available memory: 108GB (TBD) \*  
microSD card: Micro SD, up to 512GB

\*Actual internal storage available may depend 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 T-Flash card  
4G data: Cat 4 DL 150Mbit/s, UL 50Mbit/s  
3G data: HSPA+ (42M bit/s DL, 11Mbit/s UL)  
2G data: GPRS/EDGE

4G Bands:  
B1/3/5/7/8/20/26/28/38/40/41 (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

## SENSOR

Location: BDS/GPS/Glonass/Galileo,with A-GPS  
Other: Accelerometer (G sensor), Proximity by software solution

## 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:  
MPEG2, H.263, MPEG4, H.264, H.265, VP8, VP9  
Speaker: 2  
Dual-mic Noise cancellation: Default No, but optional  
Supported headsets: LRCM  
Features: Big Volume

## IN THE BOX

Type C 2.0 Cable, LCD sticker, Quick guide PSI, SIM card pin,  
RAM expansion label