alhua TECHNOLOGY

DHI-MPT320
Mobile Portable Terminal

- Android 9.0
- 8-core 1.8 GHz
- 4 GB RAM + 64 GB ROM
- Main camera: 16MP; Front camera: 8MP
- H.265 and H.264 video compression
- Supports TF card up to 256 GB
- Fingerprint recognition
- 2G/3G/4G, Wi-Fi, Bluetooth, NFC, GPS/GLONASS/BeiDou Positioning
- 2W speaker
- 4600mAh battery, 4.35V
- IP68, withstands 1.5 m drop test
- -20°C to +55°C (-4°F to +131°F)

8 core 1.8 GHz	Android 9.0	4G RAM+64G ROM	16MP+8MP	4G ×2	Fingerprint
5.7"/FHD+	ISO14443 typeA/B	Power 2W	4600mAh	IP68	1.5m

The Mobile Portable Terminal MPT320 is based on high-performance mobile phone chip and ergonomic design, and integrates industry application and AI video technology. It captures video, audio and pictures during the event, preserves the evidence and transmits to platform via 4G or Wi-Fi network, allows video preview, group talk, alarm, etc. It is applicable for scenarios like police law enforcement, security and patrol, process control, remote supervision. Therefore, the product is ideal for public security, energy, corporation, transportation, justice, and other industries.
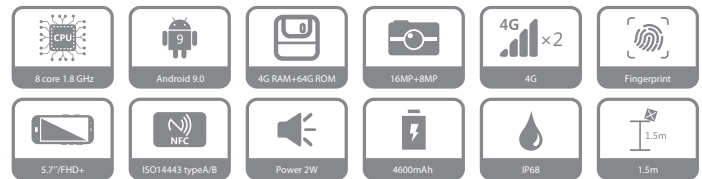
System Overview

Based on three-proofing (water, dust and drop proof) mobile phone design, the Mobile Portable Terminal MPT320 can be used with external camera, charging and transmission base, leather case, battery, and other accessories. The product has robust and durable appearance, and runs stably and reliably. It supports mainstream video streaming protocols, and video metadata algorithms such as face recognition and license plate recognition can be extended to expand intelligent application scenarios.

Scene

The product is applicable for public security, justice, safety supervision, security, energy, insurance, and other industries and departments that need mobile command and dispatch, communication, and audio and video recording.

Functions

Shortcut Functions
One touch recording, capturing, alarm and PTT (Group Talk).

Platform Protocols
Private protocol, RTSP, ONVIF.

Network Adaptiveness
Reduces streams or resolution in case of poor network, and recovers automatically after the network becomes better.

Display Adaptiveness
The display of video stream and OSD acquired by the platform is adaptive to the holding angle of the device.

OSD Information
The OSD information includes time, user, longitude and latitude, and geological location. Two pieces of OSD information can be customized.

AI Functions
License plate and face recognition can be customized.

Group Communication
Group talk, one-to-one talk (used with the management platform).

ONVIF

Technical Specification

System

Operating System	Android 9.0
Main Processor	8-core 1.8 GHz

Storage

Internal Memory	4 GB RAM + 64 GB ROM
TF Card	Supports one TF card extension (up to 256 GB)

Camera

Pixel	Main camera: 16MP Front camera: 8MP
Image Sensor	Main camera: 1/2.8" Front camera: 1/4"
Max. Aperture	Main camera: F1.6 Front camera: F1.8
Focal Length	Main camera: 3.93 mm Front camera: 2.61 mm
Focus Control	Main camera: Auto/manual
Field of View	Main camera: H: 67°; D: 78° Front camera: H: 70°; D: 85°
HDR	Supported by main camera
PDAF	Supported by main camera
LED Flashing Light	1

LCD

Screen Size	5.7" (TFT; FHD+)
Resolution	2160 × 1080
Brightness	400cd/m²
Contrast	1400:1
Touchscreen Type	Highly sensitive 5-point capacitive touch; operable with gloves or water on the screen

Others

Speaker	1 speaker: 2W
Button	Volume +, volume −, power, Fn2, Fn1, PTT, SOS
Indicator Light	Tri-color light used as status and charging indicator
Sensor	Photosensitive/proximity/compass/gyroscope/Gsensor/temperature

Video/Audio

Video Resolution/Frame Rate	Main camera: 720P@30 fps, 720P@60 fps, 1080P@30 fps Front camera: 720P@30 fps, 1080P@30 fps
Video Compression	H.264, H.265
Video Format	DAV, MP4
Picture Format	JPEG
Audio Compression	AAC, G.711A
Audio Aampling Rate	8 KHz, 16 Bit
Audio Format	DAV, AAC

Wireless

Wi-Fi	IEEE802.11b/g/n/ac Frequency: 2.4 GHz; 5 GHz
Cellular Network	GSM: B2/B3/B5/B8 CDMA: BC0 WCDMA: B1/B2/B4/B5/B8 TD-SCDMA: B34/B39 FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B28 TDD-LTE: B34/B38/B39/B40/B41
Bluetooth	BT5.0
NFC	13.56 MHz; Type A/B protocol

Positioning

Positioning	GPS/BeiDou/GLONASS Hybrid positioning accuracy is within 5 meters

Battery

Battery Capacity	4600mAh (replaceable)
Charging	DC 5V 2A
Charging Time	< 4h
Recording Time	> 8 hours (1080P@30 fps)
Charging Port	Micro USB

Slot and Port

SIM Card Slot	2: Nano SIM card; Dual SIM Dual Standby
TF Card Slot	1
USB Port	1 Micro USB 2.0
Audio Output	1: 3.5 mm port (CITIA)
External Camera	1 customizable physical port: Type-C
Gold Finger on the Back	Connects to charging and transmission base for charging and data communication

Weight and Size

Gross Weight	307 g (including battery 85 g)
Product Dimensions	16.8 cm × 7.9 cm × 1.7 cm (6.61" × 3.11" × 0.67")
Packaging Dimensions	19.5 cm × 11.1 cm × 5.6 cm (7.68" × 4.37" × 2.20")

Environment

Protection Grade	IP68; withstands 1.5 meters drop test
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Operating Humidity	5% to 96%

Accessory

Included	Battery, Micro USB cable, 5V 2A power adapter
Optional	External infrared camera, external helmet camera, charging and transmission base, battery, leather case

Certification

CE and FCC	Support

Ordering Information

Type	Model	Description
MPT	DHI-MPT320	Mobile Portable Terminal
Accessories	DHI-MEC-W320	External Helmet Camera
	DHI-MEC-S320	External Shoulder Camera
	DHI-MAE-D200	Charging and Transmission Base

Dimensions (mm[inch])