

Overview

HP Pro 8 Tablet with Voice with Mantra mDESK8



- | | | | |
|----|-----------------------|-----|---|
| 1. | Earpiece | 6. | Power button |
| 2. | Camera | 7. | USB 2.0 Slave |
| 3. | Power and Battery LED | 8. | Micro SIM card/MicroSD memory card tray |
| 4. | Ambient Light Sensor | 9. | Microphone |
| 5. | Volume button | 10. | Fingerprint reader * |

* Modules require configuration at time of purchase. Refer to configurations section for available configurations

Overview



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|----|-------------------------------------|----|----------------|
| 1. | Microphone | 5. | Camera & Flash |
| 2. | Micro USB & Headset access door | 6. | Speaker |
| 3. | 3.5mm combo headset/microphone jack | 7. | IRIS Scanner* |
| 4. | Power connector | | |

* Modules require configuration at time of purchase. Refer to configurations section for available configurations

Overview

AT A GLANCE

- Expand productivity with a device designed for mobile field workers, which supports configurable biometric modules* and provides outdoor readability, high temperature endurance and long battery life
- Integrated jacket connected to the tablet via Micro-USB connection
- Security features include configurable fingerprint reader & Iris scanner for secure authentication
- Android™ Marshmallow 6.0
- Mediatek MT8735V/W Quad Core (Cortex-A53), 1.3 GHz
- 8-inch diagonal (800 x 1280) wide viewing angle Outdoor IPS display with 10 point capacitive touch; 188 Pixels Per Inch 16:10 aspect ratio, 16.7M color
- 2 GB LPDDR3
- 16 GB embedded Multi Media Card (eMMC)
- Micro SD Card Slot supported, expandable up to 128 GB
- 802.11 b/g/n 2.4GHz Miracast compatible
- Bluetooth® 4.0 + LE connectivity
- 4G/LTE: (GSM 850/900/1800/1900, WCDMA B1&B8, LTE (Band 3 & 40))

NOTE: See important legal disclosures for all listed specs in their respective features sections.

* Modules require configuration at time of purchase. Refer to configurations section for available configurations

Technical Specifications

PRODUCT NAME

HP Pro 8 Tablet with Voice with Mantra mDESK8

OPERATING SYSTEM

Android™ Marshmallow 6.0*

*This product has Android™ 6.0 Marshmallow Operating System pre-installed. Upgrade to Android™ Nougat expected by March 2018.

PROCESSOR

MediaTek MT8735 V/W ARM Cortex™ A processor

Quad Core* 1.3GHz

Embedded GPU Mali T720MP2 450Mhz

* Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Model numbering is not a measurement of clock speed.

DISPLAY

8-inch diagonal capacitive multi-touch, wide viewing angle Outdoor IPS display

Size	8" diagonal
Resolution	800 x1280
Brightness	Typical 500 nits (cd/m ²)
Color depth	16.7 M
Pixels Per Inch	188 PPI
Aspect Ratio	16:10 Aspect Ratio (orientation agnostic)
Multitouch	Yes, 10 point capacitive
Bonding	Air bonding

Technical Specifications

INTERNAL STORAGE

Internal Storage Device

16 GB embedded Multi Media Card (eMMC)*

Micro SD Card Slot

Supports MicroSD Cards up to 128 GB**

SD and SDHC formats supported

* For storage, GB = 1 billion bytes. Actual formatted capacity is less. Up to 7GB of system disk is reserved for system recovery software.

** MicroSD card must be formatted in FAT32 format before use. Maximum individual file size supported for read/write to the card is 4 GB. MicroSD Card sold separately.

MEMORY

Standard

2 GB LPDDR3-666 MHz

Transfer rates up to 1333 MT/s

Onboard memory not customer accessible/upgradeable

NETWORKING/COMMUNICATIONS

Wi-Fi

802.11 b/g/n (2.4 GHz)*

Miracast compatible**

Integrated GPS supports A-GPS, GLONASS, Geo Tagging

WWAN

4G/LTE***

GSM/GPRS/Edge	850/900/1800/1900MHz
UMTS/WCDMA	B1/B8 (UMTS2100/UMTS900)
LTE	B3/B40
Speed	LTE Cat4

Bluetooth®

Bluetooth® 4.0 + LE connectivity



Technical Specifications

*Wireless access point & Internet service required & not included. Availability of public wireless access points limited.

**Miracast technology only works with other Miracast ready devices. High definition (HD) content is required to view high-definition images. For details see <http://wi-fi.org/miracast>.

*** WWAN requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors.

AUDIO/MULTIMEDIA

Audio

Single 1.2 W Internal Speaker

2 Integrated audio Microphones

3.5 mm Combo headphone/microphone jack (wired headset included)

Cameras

Front Camera: 2MP, Fixed Focus 640 x 480 video recording at 30 fps, Low light capable

Rear Camera: 5MP, Auto Focus, HDR (High Dynamic Range), Low light capable, and Full HD* video playback & recording

* Full HD content required for Full HD video playback.

SENSORS

Ambient Light Sensor

Accelerometer

Gyroscope

Proximity Sensor

GPS, A-GPS, GLONASS, Geo Tagging

SOFTWARE

Android™ 6.0 Marshmallow

(This product has Android™ 6.0 Marshmallow Operating System pre-installed. Upgrade to Android™ Nougat expected by March 2018)

Google Mobile Services and Applications

22 Indian regional languages supported*

Trigger an emergency call with panic button by pressing the power button three times in rapid succession**

Technical Specifications

HP Device Hub

HP User Guide

File Manager

Biometric modules SDK for Android

* Device supports text input in the following languages: Assamese, Bengali, English, Gujarati, Hindi, Kannada, Malayalam, Marathi, Odia, Punjabi, Tamil, and Telugu.

Device supports rendering and display of the following languages: Assamese, Bengali, English, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Malayalam, Manipuri, Marathi, Nepali, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu, Bodo, Santali, Maithili, Dogri

** Emergency call connectivity depends on network signals and connection to emergency services number defined in the area from your network operator. Caution: The emergency call may accidentally be triggered when repeatedly pressing the power button, pay attention to not accidentally trigger the panic button

SECURITY

ARM® TrustZone® (trusted execution environment)

Fingerprint Reader for Biometric authentication

Iris Scanner for Biometric authentication

POWER

Power Supply

27W 9V 3A Charging AC Adapter

Barrel type plug

Cable length 1.5m

Battery

6000 mAh Li-ion Polymer, 22.8Whr

Battery Life

Standby*	Up to 400 hours
Video Playback**	Up to 15 hours
Browsing***	Up to 8.5 hours
Talking****	Up to 20.5 hours
With modules*****	Up to 410 scans from FPR or IRIS modules
Charging Time	3 hours 43 minutes

Technical Specifications

* Tested by HP with WLAN and WWAN connected, display, volume, GPS and ambient light sensor off. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

** Tested by HP using continuous 720p video playback, 150 nits brightness, system audio level at 50%, played from external storage, headphone attached, airplane mode on. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

*** Tested by HP using Wi-Fi for browsing, with maximum brightness, system audio level at 50% and WWAN connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

**** Tested by HP with maximum volume using speaker for audio, WLAN and WWAN connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

***** Test performed with Full battery charged, 250 nits brightness (50% of brightness), airplane mode on, one module usage at a time for 1 min time difference. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.

WEIGHT & DIMENSIONS

Weight

800 grams (1.76 lb)*

Dimensions (w x d x h)

Length 282.6 mm (11.13 in)*

Width at narrow end 144.4 mm (5.69 in)*

Width at broader end 154.4 mm (6.08 in)*

Depth at thinner side 19 mm (0.75 in)*

Depth at thicker side 44 mm (1.73 in)*

* Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

PORTS/SLOTS

Ports

1 Micro USB 2.0 Support OTG* (connected to jacket for biometric modules)

1 USB 2.0 Support * (on jacket)

1 3.5 mm Combo headphone/microphone jack (wired headset included)

1 Barrel type plug charging port

1 Micro SIM card slot

Expansion Slots

1 MicroSD card slot**

* USB does not support charging.



Technical Specifications

** Up to 128 GB of expandable storage. MicroSD card must be formatted in FAT32 format before use. Maximum individual file size supported for read/write to the card is 4 GB. MicroSD card sold separately.

CONFIGURATIONS

Available Configurations

SKU 1: 2UN58PA#ACJ	Fingerprint Reader only
SKU 2: 2UQ08PA#ACJ	Iris Scanner only
SKU 3: 2UQ09PA#ACJ	Fingerprint Reader, Iris Scanner

Fingerprint Reader

Model Name	MFS 100
Technology	Optical fingerprint sensor
Supported standards	ANSI-378, ISO19794-2
Current Consumption	100mA
Wake-up time	< 1 sec
STQC FRR Ratio	<0.5%
Resolution	500 DPI
Platen	Glass Material
Capture Area	16 x 18 mm
Image Size	316 x 354
Image resolution	500 DPI / 256 grayscale
Image Capture Speed (snapshot)	< 1 Sec
Image Capture Speed (continuous)	30 FPS
Operating Temperature	32° – 113 °F (0° – 45° C)
ESD Tolerance	IEC 61000-4-2 criteria A
Certifications	CE (Class A), RoHS, IP55, FCC (Class A), IEC60950, STQC, FBI-PIV
Applications	Government and Mobile ID terminals Aadhaar based eKYC/authentication USB peripherals and POS terminals Access Control and other embedded devices

Iris Scanner

Model Name	MIS 100
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Technical Specifications

Absolute required voltage	5V
Current Consumption	<100mA
ESD Air discharge	+/-8 KV ,contact type+/-4Kv
Sensor & Image resolution	> 500 DPI
Pixel Resolution	> 10 pixels/mm
Image Margins	Left & right $\geq 0.6x$ iris radius
Top & bottom	$\geq 0.2x$ iris radius
Imaging Wavelength	700-900 nm
Pixel Depth	8 bits/pixel
Output Image	KIND7 with JPEG2000 compression
Capture Mode	Auto capture with built-in quality check
Capture time	< 2 sec
Spatial resolution	> 50% @ 1.0 LP/mm
Focal Distance	10 cm
Safety Exempt Group	per IEC 62471:2006-07
Health-Safety	RoHS Complaint
Radiated Emission	FCC part15B/IEC:CISPR 22 CLASS B standard
Radiated Immunity	As per IEC/EN 61000-4 3:2006+A2:2010

Technical Specifications

IN THE BOX

- HP Pro 8 Tablet with Voice with Mantra mDESK8
- 27W 9V 3A AC tablet charger with barrel type plug
- USB to Micro USB Cable
- OTG Cable
- Wired Headset
- SIM slot Pin
- Screen Protector
- Quick Start Guide

SERVICE AND SUPPORT

Protected by HP standard one year limited warranty including parts and onsite labor. 90 day software limited warranty options depending on country. Batteries have a one year default limited warranty. Terms and conditions may vary by country. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/cpc>.

Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc.

Technical Specifications

SYSTEM UNIT

Tablet

Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage

100-240V, 50-60Hz

Temperature

Operating

Special*
(Low and High Temperature)

14° to 122° F (-10° to 50° C)

Typical

32° to 104° F (0° to 40° C)

Non-operating

-4° to 140° F (-20° to 60° C)

Relative Humidity

Operating

0% to 90%

Non-operating

0% to 95%

Shock

Operating

40 G, <=3 ms, half-sine

Random Vibration

Operating

1.043 grms

Non-operating

3.50 grms

Altitude (unpressurized)

Operating

-50 to 15,000 ft (-15.24 to 4,572 m)

Jacket

Power Requirements

Nominal Operating Voltage

MicroUSB connection thru Tablet

Temperature

Operating

32° to 113° F (0° C to 45° C)

Relative Humidity

Operating

< 90% RH non condensing

For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

*Not meant to operate for more than two hours under these conditions, product will automatically shut down. Test performed with a fully charged battery, device stored for 30mins, using continuous 720p video playback, with middle level brightness, system audio level at 100% no adapter connected for two hours.

Technical Specifications

INDUSTRY STANDARD CERTIFICATIONS

Tablet:

EMC Compliance - EU/FCC/IC CISPR 22 / EN 55022; CISPR 24 / EN 55024; FCC CFR 47 Part 15 / ICES-003

Safety Compliance - UL/CSA/CB IEC/CSA/UL/EN 60950-1

Telecom & SAR Compliance - EU/FCC/IC EN 300 328; EN 300 440; EN 301 489; EN 301 893; EN 301 908; EN 301; EN 62311; EN 62209; EN 62479; FCC 47 CFR Part 2; IC RSS102

CE, EMI&RF, FCC EMI, BIS, IEC 60601, BQB, ISO 9001

Battery:

UL 1642, UL 2054, BIS, IEEE1725 PACK, IEEE1725 Cell, UN/DOT 38.3, IEC/EN/UL 62368, IEC/EN 621

Adapter:

CB, CE, UL, FCC, BIS, IEC 60601

Jacket, Jacket Battery and Jacket Adapter:

BIS

STQC (for fingerprint reader and Iris scanner)

RD service / LO certification (for fingerprint reader and Iris scanner)

ENVIRONMENTAL DATA

Tablet

Low Halogen*

ENERGY STAR® certified**

Mercury Free display backlights and arsenic-free display glass

Recycled Packaging

EPEAT® Silver***

ROHS (including adapter)/REACH/GSE

WEEE (including adapter)

RAT, EDS

HP Inc. Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Environment website <http://www.hp.com/environment>



Technical Specifications

* External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

** ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency.

***EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options

Technical Specifications

COUNTRY OF ORIGIN

Tablet : China

Jacket including Biometric modules : India

Technical Specifications

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Change Log

Date of change:	Version History:	Description of change:
	V1 to V2	