DT Research

Android Rugged Tablet

BASIC OPERATION GUIDE

DA381ND

INTRODUCTION

Thank you for acquiring the DA381ND, part of DT Research's line of Android Rugged Tablets. Featuring a slim yet robust enclosure, the DA381ND with an 8" LED 1000 nits touchscreen with a powerful Qualcomm® 8-core processor, offering optimal combinations of performance and power savings. The DA381ND is available with the Android operating system. The software operating system features a web browser, client/server computing software, media player, accessories, and application support.

PACKAGE CONTENTS

- One DA381ND
- One battery pack and handstrap
- Ac-DC power adapter
- Basic operation guide

* The actual package contents may vary depending on the configuration acquired.

DT Research
www.dtresearch.com

DT Research, Inc.
2000 Concourse Drive, San Jose, CA 95131

BOG091125 DA381ND ENG

The DA381ND

Input/Output Ports

- **A** Latest USB/charging port (as power input)
- **B** 24-pin Fischer Minimax connector (power 5-6A (in) and power 2A (out)/ground/ URAT) (optional)

Data Capture Modules

- **C** Front camera
- **D** Back camera

Button Functions

BUTTON	ACTION
1	Power button
2	Day/night vision switch button
3	Brightness control buttons
4	Programmable button

PRECAUTIONS

- Always exercise care when operating and handling the DA381ND.
- Do NOT apply excessive pressure to the display screen.
- We recommend using the Digital Pen (optional) to keep the screen clean.
- Avoid prolonged exposure of the display panel to any strong heat source. Wherever possible, the DA381ND should face away from direct light to reduce glare.
- If the AC-DC power adapter is used to recharge or power the tablet, do NOT use any AC-DC adapter other than the one provided or acquired from the manufacturer or its partners.
- In the unlikely event that smoke, abnormal noise, or strange odor is present, immediately power off the DA381ND and disconnect all power sources. Report the problem to your device provider immediately.
- Never attempt to disassemble the DA381ND, as this will void the warranty.

NOTE:

To obtain protection consistent with any IP rating for the device, the I/O (audio, power, USB, card reader, etc.) port doors must be closed. If the IP protection is compromised by mishandling or misuse, such as by leaving port doors open or improperly closed, any resulting product damage will not be covered under any DT Research warranty.

BASIC FEATURES

The DA381ND rugged tablet integrates a bright display, USB ports, and embedded networking elements such as wireless LAN.

A DA381ND typically integrates an 802.11ax wireless LAN (WLAN) adapter that may connect to other wireless devices or access points. If your DA381ND does not come with such a network adapter, please consult your device provider to establish the desired network connectivity.

OPERATION

Powering ON and OFF

To activate DA381ND, push and quickly release the Power Button. The display will come on in a few seconds. To put the DA381ND in standby mode, push and quickly release the Power Button. To turn the DA381ND off for extended storage, power off safely using any software function that “shuts down computer” provided in the software operating system.

NOTE:

The battery packs shipped with your tablet may be low in power - please use the AC-DC adapter with the DA381ND when setting up for the first time to fully charge the battery pack.

NOTE:

To conserve power, push and quick release the Power Button to make the tablet in standby mode while not in use. Pushing briefly on the same butt on will wake up the system.

NOTE:

When the battery pack is charging, the blue-colored Battery LED should blink slowly. If plugging in the AC-DC adapter does not trigger this blinking activity and the LED stays dark, the battery pack(s) may have been drained substantially. Unplug/replug the AC-DC adapter to the DA381ND a few times to activate the charging process.

NOTE:

Avoid using the Power Button ("hold 4+ seconds" feature) to turn off the tablet—this form of hardware shutdown is intended to be a means of recovery from lockups, and not as normal operation.

Start Up

If the power up (from Standby mode or otherwise) is successful, the appropriate interface will be displayed after a launch sequence of several seconds. The wireless LAN connection may take 10 to 15 seconds to be established.

Configuring the Rugged Tablet

The DA381ND may be configured using the utilities and methods dictated by the software operating system. The DA381ND should be configurable for various properties such as user profiles, network features, and several system elements.

Wireless Networking

Wireless LAN

The DA381ND is often delivered with an embedded (user-inaccessible) 802.11ax LAN adapter equipped with a hidden custom antenna.

- Through the support of typical WLAN adapters, the DA381ND should be able to detect all 802.11 access points in the vicinity for you to select the access point of your choice for connection.
- The SSID and WEP/WPA/WPA2 (if enabled) parameters on the DA381ND and the access points have to match. The SSID is case-sensitive and it is recommended that you enable WEP/WPA/WPA2 encryption (or advanced alternatives) for secure access.
- When WEP/WPA/WPA2 is enabled, you may need to consult your network administrator or your networking equipment literature to properly configure associated settings such as Authentication mode, etc.
- Refer to the access point operating manuals for setting up the 802.11 access points.

USING THE TABLET

To Hold the Tablet

Left hand: grip the left back side of the tablet with your left hand four index fingers, with thumb resting on the top of the back side of the tablet and palm securely against the back.

Right hand: grip the right back side of the tablet with your right hand four index fingers, with thumb resting on the top of the back side of the tablet and palm securely against the back.

CAUTION:

– Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.

– Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

Battery Usage and Maintenance

DT Research tablets and laptops are powered by lithium polymer battery packs in proprietary form factors. Battery configurations for the DT Research devices include internal (bridge or backup), removable or swappable implementations.

Battery usage cycles, or duration between necessary re-charge, vary with a number of factors, including device model, device usage pattern and battery health/aging. The DTR battery packs may be charged while attached to the device or when separated from the device and docked in proprietary battery charging cradles. Following the guidelines on good practice below can help to keep a battery pack healthy and prolong battery usage cycles and battery lifespan.

- Avoid high heat conditions during operation, idle, charging, and storage states.
- Avoid letting the battery pack remain in very highly charged state or overly low charged state for extensive periods of time. Keeping the battery capacity between 30% and 80% of maximum capacity is recommended. The prevailing battery level(s) can be read from the Battery utility within the Windows operating system.
- Avoid letting the battery be over-discharged or depleted. Over-discharge can occur when a fully-discharged (0% level or thereabouts) battery pack is allowed to remain in such a state for an extended period of time (weeks or months). The embedded battery controls enter a protection mode and recharging will be prevented for safety reasons. To reduce the likelihood of over-discharge, consider recharging idle batteries regularly to some level between 30% to 80% of capacity.
- For long term storage, it is recommended that removable battery packs be stored separated from the device. Otherwise, the system should be placed in Shutdown mode. The battery level will decrease with time and it is recommended that the battery packs be monitored or recharged every 2 to 3 months to maintain.

Federal Communication Commission Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

This Class [B] digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

For More Support

Users can download the Tablet Modules Basic Operation Guides from the DT Research website.