

# DT Research Rugged Tablet



## BASIC OPERATION GUIDE

### DT340T

#### INTRODUCTION

Thank you for acquiring the latest addition to DT Research's line of tablets — the DT340T. Featuring a slim yet robust enclosure, the DT340T with a 14" TFT display is powered by the Intel® processor, offering optimal combinations of performance and power savings. The DT340T is available with Microsoft® Windows® operating system. The software operating system features web browser, client/ server computing software, media player, accessories, and applications support.

#### PACKAGE CONTENTS

- One DT340T with Two Battery Packs
- AC-DC Power Adapter with Power Cord
- Basic Operation Guide



## Input/Output Ports

<b>A</b>	Ethernet Port (RJ45)	<b>F</b>	DC-in
<b>B</b>	USB 2.0 Port	<b>G</b>	Smart Card Reader
<b>C</b>	USB 3.0 Port	<b>H</b>	Tabletop Stand
<b>D</b>	HDMI Output	<b>I</b>	Speaker
<b>E</b>	Audio Jack		

## Button Functions

BUTTON	ACTION
<b>1</b>	Power Button
<b>2</b>	Programmable Buttons
<b>3</b>	Battery Latch *Push the switch up to unlock the latch, then slide the latch left to remove the battery.

## Power/Battery LED Status:

- Blue indicates the battery is 25% to 100% charged
- Blinking blue indicates the battery is charging
- Orange indicates that the battery is between 11% to 25%
- Blinking Orange indicates that the battery is below 10%

## PRECAUTIONS

- Always exercise care when operating and handling the DT340T
- 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 DT340T 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 DT340T and disconnect all power sources. Report the problem to your device provider immediately.
- Never attempt to disassemble the DT340T, as this will void the warranty.

## BASIC FEATURES

The DT340T wireless tablet integrates a bright display, one USB port, and embedded networking elements such as wireless LAN or optional mobile broadband. The DT340T is complemented by a suite of accessories, including battery expansion, charging cradles, and battery charger kit, for a comprehensive user experience.

A DT340T typically integrates an 802.11ac wireless LAN (WLAN) adapter that may connect to other wireless devices or access points. If your DT340T 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 the DT340T, push and quickly release the Power Button. The display will come on in a few seconds. To put the DT340T in Standby mode, push and quickly release the Power Button. To turn the DT340T 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 DT340T when setting up for the first time to fully charge the battery packs. You may charge the battery packs while attached to the DT340T, or with the optional external battery charger kit.

#### NOTE:

When the battery pack(s) is (are) 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. Try unplugging/ replugging the AC-DC adapter to the DT340T a few times to activate the charging process.

#### NOTE:

To conserve power, use (push and quick release) the Power Button to put the tablet in “Standby” mode while not in use. Pushing briefly on the same button will wake up the system within seconds.

#### 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 10-15 seconds to be established.

### Configuring the Mobile Tablet

The DT340T may be configured using the utilities and methods dictated by the software operating system. The DT340T should be configurable for various properties such as user profiles, network features, and several system elements.

### Wireless Networking

#### Wireless LAN

The DT340T is often delivered with an embedded (user-inaccessible) 802.11ac WLAN adapter equipped with a hidden custom antenna.

- Through the support of typical WLAN adapters, the DT340T 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 DT340T 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.



#### 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.

## USING THE MOBILE TABLET

### Peripherals Support

Through its USB ports, the DT340T supports a wide range of USB-based peripherals. These peripherals are applicable for software installation, applications storage, data storage, and system software recovery and updates.

### For More Support

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

If the DT340T comes with a mobile broadband module, please contact your product and/or service provider for the SIM Card installation procedures.



#### 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.

### 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%-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 2-3 months to maintain battery health. The targeted battery level should be within 30% to 80% of maximum capacity.

## WM209 Wall Mount Cradle Installation Guide

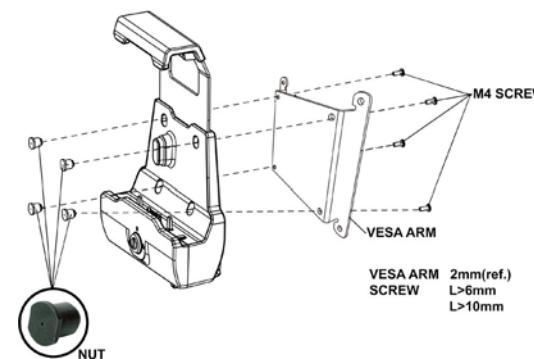
1. Use the key to unlock, and slide the latch on the bottom of the Cradle to loosen the Top Clasp.
2. Insert the bottom part of the Tablet into the cradle first with the connector parts correctly lined up.
3. When the bottom of the Tablet is in place, push the Tablet against the back and into the Cradle.
4. Push down on the Top Clasp, so the top portion of the cradle slides down and locks into the locked-down position.
5. Lock the Cradle with the key.



### OPERATION

#### Mounting the Cradle

The Tablet Mount Cradle supports VESA standard mounting options (75 mm x 75 mm or 100 mm x 100 mm) so it can be easily attached onto a wall, in a vehicle, and on a VESA arm.



**NOTE:** If using a 100 x 100 VESA stand or arm, the VESA Conversion Bracket is needed. Please place the VESA Conversion Bracket on the back side of the Cradle, and apply the four M4 screws.

## KB04 KeyBoard Installation Guide

1. Use the key to unlock, and slide the latch on the bottom of the Cradle to loosen the Top Clasp.
2. Insert the bottom part of the Tablet into the cradle first with the connector parts correctly lined up.



## RF Exposure Information (RED & UKCA)

To be protected against all verified adverse effects, the separation distance of at least 0mm must be maintained between the antenna of the radio having max. 4.9dBi antenna and all persons.

Hereby, [DT Research, Inc.] declares that the radio equipment type [DT340T] is in compliance with Directive 2014/53/EU and UK Radio Equipment Regulations 2017. The full text of the EU and UK declaration of conformity is available at the following internet address: <http://www.dtresearch.com>.

The functions of Wireless Access Systems including Radio Local Area Networks(WAS/RLANs) within the band 5150-5350 MHz and 5945-6425MHz for this device are restricted to indoor use only within all European Union countries (BE/BG/CZ/DK/DE/EE/IE/EL/ES/FR/HR/IT/CY/LV/LT/LU/HU/MT/NL/AT/PL/PT/RO/SI/SK/FI/SE/TR/N O/CH/IS/LI/UK(NI)).

Maximum EIRP for EU

Bluetooth:2402MHz-2480MHz	11.66dBm
Bluetooth LE:2402MHz-2480MHz	7.73dBm
Wifi: 2412MHz-2472MHz/2422MHz-2462MHz	19.31dBm
Wifi: 5150MHz-5725MHz	19.70dBm
Wifi: 5725MHz-5875MHz	13.76dBm
Wifi: 5925MHz-6425MHz	20.59dBm

This equipment complies with Directive 2014/53/EU and UK Radio Equipment Regulations 2017 radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by European Union market(France). These requirements set a SAR limit of 2W/kg averaged over one gram of tissue. The highest SAR value 0.99 W/kg reported under this standard during product certification for use when properly worn on the body.

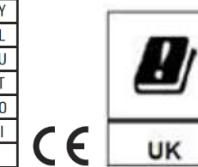
The equipment has been tested with radios set to their highest transmission levels with following setup:

Mode	use against the head	worn or carried against the torso of the body	Worn on limbs
Separation	/	0 mm	/
SAR Value	/	0.99 W/kg	/
Sar Limit	2W/kg (over 10 g)	2W/kg (over 10 g)	4W/kg (over 10 g)

Body-worn accessories (e.g., carry case, belt clip) containing metallic components which has not been tested or certified may change the RF performance of the device, including its compliance with RF exposure. User shall avoid using such accessories and should operate at least the above stated separation distance to maintain RF exposure compliance.

Operating authorizations must exist to operate the product in the following member states of the European Union, refer to the table below.


AT
BE
BG
CH
CY
CZ
DE
DK
EE
EL
ES
FI
FR
HR
HU
IE
IS
IT
LI
LT
LU
LV
MT
NL
NO
PL
PT
RO
SE
SI
SK
TR
UK(NI)



Importer Name: Concept International GmbH

Importer Address: Zweibrückenstr. 5-7 80331 München Germany

## 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.

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.

## RF Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the FCC. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body, with 0mm separation.

FCC ID Label is in removable battery compartment, it could be easily found by removing the battery cover.

## Indoor Client 6XD statement

1. FCC regulations restrict the operation of this device to indoor use only.
2. The device will only associate and connect with a low-power indoor access point or subordinate device and never directly connect to other client devices.
3. The device will always initiate transmission under the control of a low-power indoor AP or subordinate except for brief transmissions before joining a network. These short messages will only occur if the client has detected an indoor AP or subordinate operating on a channel. These brief messages will have a time-out mechanism such that if it does not receive a response from an AP it will not continually repeat the request.
4. transmissions will be lower or equal to the power advertised by the indoor low-power access point or subordinate and never above the maximum output power allowed by the FCC grant for equipment class 6XD.
5. Prohibited for control of or communications with unmanned aircraft systems, including drones.

## Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

**Unique Identifier** Trade Name:

Model No.: **DT340T**



**Responsible Party – U.S. Contact Information**

**DT Research, Inc.**

2000 Concourse Drive, San Jose, CA 95131

<http://www.dtresearch.com>

## IC Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

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.

## RF Exposure Compliance

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body, with 0mm separation.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.

Le dispositif portatif est conçu pour répondre aux exigences d'exposition aux ondes radio établie par le développement énergétique DURABLE. Ces exigences un SAR limite de 1,6 W/kg en moyenne pour un gramme de tissu. La valeur SAR la plus élevée signalée en vertu de cette norme lors de la certification de produit à utiliser lorsqu'il est correctement porté sur le corps, avec une séparation de 0mm.

The functions of Wireless Access Systems including Radio Local Area Networks(WAS/RLANs) within the band 5150-5250 MHz for this device are restricted to indoor use only.

Les fonctions des systèmes d'accès sans fil, y compris les réseaux locaux radioélectriques (WAS/RLAN), dans la bande 5150-5250 MHz de cet appareil sont limitées à une utilisation en intérieur.

## IC Wi-Fi 6E Statement:

Devices shall not be used for control of or communications with unmanned aircraft systems. Low-power indoor access points and indoor subordinate devices shall bear statements acknowledging both of the following restrictions in the user manual and, where feasible, in a conspicuous location on the device:

Operation shall be limited to indoor use only.

Operation on oil platforms, automobiles, trains, maritime vessels and aircraft shall be prohibited except for on large aircraft flying above 3,048 m (10,000 ft).

L'équipement ne doit pas être utilisé pour le contrôle ou la communication des systèmes d'aéronefs sans pilote. Les points d'accès intérieurs de faible puissance et les accessoires intérieurs doivent indiquer les restrictions suivantes dans le manuel de l'utilisateur et, si possible, à un endroit bien en vue de l'appareil: Le fonctionnement doit être limité à un usage intérieur. Il est interdit de travailler sur les plates - formes pétrolières, les voitures, les trains, les navires maritimes et les aéronefs, à l'exception des gros aéronefs de plus de 3 048 mètres (10 000 pieds).