

Wacom MobileStudio Pro

Important Product Information

Graphics tablet computer (DTH-W1321)

PRECAUTIONS

PRECAUTIONS ON USE AND HANDLING

To ensure the safe operation of the product, be sure to follow all instructions, cautions, and warnings found within this guide. Failure to do so could cause damage to the product, damage to your computer, or loss of data. Failure to do so could also void your warranty, in which case Wacom shall have no responsibility to repair or replace the product.

PHYSICAL LOCATION

WARNING

The product is solely for normal office environments but may be used also as center consoles in climate controlled environments. The product was tested by Wacom for the usage in a normal office environment only and there was no particular inspection with regards to its compatibility in medical and military application areas.

In addition, the interactive product is neither waterproofed nor explosion resistant.

It serves and can be used solely as a computer, a passive display and input device.

In all applications that are not designated for its sole usage, no information on the functionality and possible malfunctions of the interactive product can be supplied due to inadequate execution of tests.

The adoption of the interactive product in other application areas than normal office environments is at the user's risk.

CAUTION

Do not use or store the product in the following place. They may damage it.

- Temperature changes are severe or exceed specifications (e.g. outdoors or inside a vehicle).
- Dusty place.

USAGE

WARNING

Only use a power adapter specified for use with the product. If a different type of power adapter is used, the product will not work properly or may be damaged.

Using a different type of power adapter also has the potential to result in fire. Use of a different power

adapter will void your warranty.

Regularly remove dust build-up from the power plug. The addition of moisture, etc., to accumulated dust may create a fire hazard.

Do not damage, forcibly bend, or bundle the power cord. Do not place heavy objects on the cord or expose it to excessive heat. Ignoring this warning may result in fire, electrical shock, or product failure.

Do not connect or disconnect the power adapter with wet hands. Ignoring this warning may result in electrical shock or product malfunction.

Do not insert foreign material into the USB port, video connector ports, or any other opening of the product. If a metal object or foreign material is inserted into a port or other opening of the product, it may cause product malfunction, fire, or electrical shock.

CAUTION

Set up the AC adaptor and the product in a well-ventilated place. If used in a poorly ventilated place it may overheat and cause it to malfunction, decreasing the product life cycle.

When not using the product for long periods of time, unplug the power adapter from the AC outlet.

Take care of the following points to protect the health of your eyes when using the product:

- When using the product, only use it in a well lit room and view the display from a suitable distance.
- Take regular breaks when using the product for extended periods of time.

Take care of the following points in regards to the LCD display.

Do not push down forcibly with the pen on the LCD display. Pushing down forcibly on the display may cause ripple like striped patterns to temporarily appear on the display (the ripples disappear when you stop pushing down with the pen). The following conditions are characteristics of LCD displays and do not indicate damage or malfunction to the product.

- Depending on the displayed contents, uneven brightness may be produced.
- Depending on the displayed contents, a small portion of lit and unlit red or blue dots may be visible.
- When displaying objects with delicate patterns, flicker or striped patterns may be produced.
- After displaying the same still image for an extended period of time, a residual image may be produced. (Residual images will gradually disappear over time.)
- Changes to the condition of the back light over the period of using the display will gradually affect the condition of the display.
- Depending on the angle that from which the display is viewed, the colors and hues may appear changed.

HANDLING

WARNING

High Voltage. Do not open or disassemble the product. There is a risk of electrical shock when the casing is open. This will also void your warranty and Wacom shall have no responsibility to repair or replace the product.

Ensure that cabling or other objects do not get entangled in the moving parts of the stand.

When moving the product, ensure all cables are fully disconnected from the power outlet, computer, and other areas. Appropriately bundle the cables to ensure they do not hang free and create a hazard.

Tripping over loose cables can cause physical damage or personal injury.

Do not place the product on any wet surface, any unstable areas or table. Physical damage or personal injury may result if the product falls from an unsuitable surface.

Do not sit on, or hang from, the table or other surface where the product is placed. The product may fall and cause physical damage or personal injury. Take extra care where children are present.

If the LCD screen has been damaged, DO NOT touch any liquid that may be leaking from it; this liquid is an irritant. In case of contact with skin, eyes, or mouth, rinse immediately with running water for at least 15 minutes. If contact is made with the eyes or mouth, consult a physician.

Choking hazard. Prevent children from swallowing the pen tip or side switch. The pen tip or side switch may accidentally be pulled out if children are biting on them. Prevent children from playing with any packing materials or wrapping, as a choking or suffocation hazard may exist.

Refrain from using the product during thunder or electrical storms. Disconnect the product also from the AC power source during such weather. Using the product during thunder or electrical storms may cause product malfunction, fire, or electrical shock.

Do not disassemble the pen. This may cause the device to malfunction. In this case, Wacom shall have no responsibility to repair or replace the pen.

Do not strike hard objects with the pen, such as repeatedly tapping the pen against a desk surface.

Doing so may cause damage to the pen.

Do not apply excessive pressure or stress to the pen tip, eraser, or side switch. This may cause premature failure or malfunction.

Only use a replacement pen tip (nib) specified for the pen by Wacom.

This product has parts made of metal. If you show symptoms of metallic allergy during use, stop using the product, and consult a doctor immediately.

Do not scratch the display screen. Avoid placing sharp objects on the display screen surface.

Do not use the Felt nib. It may scratch the display screen.

Avoid intensive shock or vibration to the product, the product stand, or the pen. Hitting or dropping the product may damage the display screen or other components.

Do not put heavy objects on the product or push against it with a strong force; this may damage the display screen or break the product stand mechanism.

Do not place heavy articles on the product cabling, repeatedly bend the cables sharply, or apply heavy stress to the cable connectors; this may damage the product or cabling.

Do not store the product on a surface that would excessively bend or crimp the cable.

If your product has a coated surface, a worn pen nib that is sharp or angular may cause damage.

Replace the pen tip if necessary.

Do not use any organic solvent (e.g. alcohol) or even mild detergent to clean the display screen. Use of these cleaners can damage the display screen. Damage of this kind is not covered by the manufacturer's warranty.

- Before cleaning, always turn off the power and disconnect the product from the AC power source.
- To clean the display screen, use an anti-static cloth or a slightly damp cloth. When cleaning, apply only a light amount of pressure to the display screen and do not make the surface wet.
- To clean the product casing, the product stand, or the pen, use a slightly dampened (with water) soft cloth.

Always turn off the power and disconnect the product from the AC power source if the product appears to be malfunctioning, has been damaged by a fall, or in some other manner.

Touching the same part of your body to the product (LCD panels and other areas) for extended periods of time may cause low temperature burns. Avoid touching the product with the same part of your body for extended periods of time.

Do not place metallic objects on the product when using the product. Doing so may cause malfunction or damage to the product.

Placing other tablets or other devices near the product may affect the product's operation and cause malfunctions. If this happens, place the interfering devices to the side or further away from the product.

Move the product periodically to another place on your work surface to avoid permanently discoloring or altering the appearance of the surface.

If you lift the product, hold the product with both hands.

CAUTION

The batteries in the products are not consumer replaceable. You must return the product to Wacom or

an authorized service center for any battery replacement, whether covered by the warranty or not.

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

IMPORTANT: You must back up all your data and digital materials before returning your product to Wacom for any reason. To protect your privacy and personal information, Wacom will erase all data and install a fresh operating system image on EVERY product returned to Wacom, before replacing the battery or doing any warranty or other repair work.

Charging the product. To charge the product, use only the attached AC adapter.

When you use the AC adapter to charge the product, make sure that the AC adapter is fully assembled before you plug it into a power outlet. Then insert the AC adapter firmly into the power outlet.

Do not connect or disconnect the AC adapter with wet hands.

The AC adapter may become warm during normal use. Always allow adequate ventilation around the AC adapter and use care when handling. Unplug the AC adapter if any of the following conditions exist:

The power cord or plug has become frayed or damaged.

The adapter is exposed to rain, liquid, or excessive moisture.

The adapter case has become damaged.

You suspect the adapter needs service or repair.

You want to clean the adapter.

Avoiding Hearing Damage: Permanent hearing loss may occur if the receiver, earbuds, headphones, speakerphone, or earpiece are used at high volume. Use only compatible receivers, earbuds, headphones, speakerphones, or earpieces with your device. Turn on the audio and check the volume before inserting anything in your ear. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked. The louder the volume, the less time is required before your hearing could be affected. Hearing experts suggest that to protect your hearing:

Limit the amount of time you use the receiver, earbuds, headphones, speakerphone, or earpieces at high volume.

To prevent possible hearing damage, do not listen at high volume levels for long periods.

Instructions to prevent reasonably foreseeable misuse

- High or low extreme temperatures that a battery can be subjected to during use, storage or transportation.
- Low air pressure at high altitude.

- Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types).
- 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.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Dimensions (L x W x H)	228.8 x 366.6 x 17.4 ±0.5 mm (with grip pad) 9.01 x 14.43 x 0.69 ±0.02 in (with grip pad)
Weight	1.42 kg ±5% 3.2 lbs ±5%
Operating temperature & humidity	Temperature: 5 to 40 degree C, Humidity: 30% to 80% RH (non-condensing)
Storage temperature & humidity	Temperature: -10 to 60 degree C, Humidity: 30% to 90% RH (non-condensing) (Maximum storage humidity is 90% at a temperature of 40 degree C, and maximum storage temperature is 60 degree C at a humidity of 30%.)
Operating System	Windows 10
Compatibility	Windows stand-alone, Mac compatible when plugged in
Stand	Detachable stand (Supporting 3 angles: 16, 30, & 43 ±1) ※DTH-W1321L : Separate accessory
I/O Ports	1x USB-C & 2 x Thunderbolt3 ※Middle port is USB-C (USB3.1 Gen2) 1x Audio-combo (Headset), 1x SDXC card reader
Cover plate	AG etching cover glass direct bonding with LCM
Camera	Front: 5M pixels Rear: 8M pixels

Others	Dual Microphone, Headset Jack, Stereo Speakers
Input voltage	100 to 240 VAC, 50/60 Hz
Battery	11.4 V, 52.78 Wh
Battery life	Up to 5 hours (JEITA2.0)
Power Consumption	Maximum power consumption: 94 W, 1.0 W when asleep, 0.5 W or less when off
USB Connectors	1x USB-C & 2 x Thunderbolt3
Output Video Connector	USB Type C (Display Port Alternate Mode)
Network Interface	Wi-Fi IEEE 802.11 ac Bluetooth 5.0
Sensors	GPS, electronic compass, accelerometer, ambient light, gyro, fingerprint reader
Speaker	2 x 2.0W
SD card reader	SDXC (UHS-II)
GENERAL DISPLAY SPECIFICATIONS	
Display Panel	WQHD
Screen Size	13inch (293.76 x 165.24 mm)
Aspect ratio	16:9
Number of pixels	2560 x 1440
White Luminance Uniformity	95 % (min.)
Pixel Pitch	0.11475 (H) x 0.11475 (V) mm 0.09 (H) x 0.09 (V) mm
Viewing Angles @ CR>10 (horizontal/vertical)	170 deg. (85/85) H, (85/85) V
Display Colors	16.7 million
Contrast Ratio	600:1(min), 800:1(typ)
Luminance	LCM Native (including touch glass) 210 cd/m2 (min.) 250 cd/m2 (Typ.) After white balance calibration 150cd/m2(min)
Response Time (Tr + Tf)	30 ms (typ.)
LCD quality	Each LCD panel is produced under very stringent quality standards. Production techniques cannot guarantee an absolutely perfect TFT

display. Wacom does not allow any pixel to be always white or always black. A small number of pixels are allowed to show a wrong color for some parts of the color spectrum. This does not mean the display is defective.

PEN TABLET SPECIFICATIONS

Reading Technology	Electro-magnetic resonance technology
Active Area	293.76 x 165.24 mm
Resolution	0.005 mm/point (5080 lpi)
Accuracy	± 0.2mm (center), the edge area 1 (20mm wide from edge of display area) to be ± 0.5mm, the edge area 2 (3mm wide from edge of display area) to be ± 0.5mm
Reading Height	10 mm or more (Center)
Accuracy Assurance Height	0 mm from cover plate
Maximum Report Rate	180 pps
Pen Tilt Range	± 60 degree (all pens)
Pressure levels	8192 levels - pen and eraser
Communication Interface	USB

TOUCH SENSOR SPECIFICATIONS

Technology type	Projected capacitive
Active Area	299.04 x 170.88 mm
Resolution	0.025 mm/point
Coordinate Accuracy	± 1mm (Center)
Maximum Report Rate	100 point/sec

POWER ADAPTER SPECIFICATIONS

Input voltage	100 to 240 VAC, 50/60Hz
Output voltage	5V/3A (15W), 20V/5A (100W)

WACOM PRO PEN2 (KP-504E)

Physical size (L x D)	157x15 mm (6.18 x 0.59 in)
Weight	15 g (0.5 oz)

STAND SPECIFICATIONS (DTH-W1321H only)

Angle	0, 17, 31, 43 degrees
Dimension	W: 250 × L: 172.5 × H: 3.75 mm (9.84 × 6.79 × 0.14 inch) (7.7 mm (0.30 inch) included rubber foot)

Weight

365 g (12.9 oz), approximate