Related Products

Havis offers a wide variety of accessory products specifically for use with the DS-PAN-420 Series Docking Station. For more information or to order, please visit www.havis.com.

LPS-112
120W Power Supply
External power supply and cable for Panasonic CF-54 Toughbooks with cigarette lighter adaptor.

LPS-204
Power Supply Mounting Bracket
Mount the LPS-112 Power Supply directly to your Docking Station.

DS-DA-417
Screen Support
Secure your laptop screen to prevent excess wear and reduce vibration while in use.

DS-DA-226
Card Reader Mounting Bracket
Mount an E-Seek Model 250 card reader to the side of the Docking Station.
(Bracket can be customized for other Card Reader Models)

DS-DA-501
Replacement Keys
Set of two (2) replacement keys for the DS-PAN-420 Series Docking Stations.

DS-DA-602
Rugged Communication Hub
Rugged USB/Ethernet hub makes adding peripherals to your mobile workspace easy and safe.

Owner’s Manual
Havis Rugged Mobile Docking Station
For Panasonic CF-54 Toughbook

DS-PAN-420 Series
DS-PAN-421 DS-PAN-422 DS-PAN-423 PKG-DS-PAN-422
DS-PAN-421-2 DS-PAN-422-2 PKG-DS-PAN-422-2
Before Beginning

Havis is pleased to provide this Owner’s Manual to aid in the proper installation and use of the DS-PAN-420 Series Docking Station for the Panasonic CF-54 laptop computer.

For questions regarding the set-up of your DS-PAN-420 Series Docking Station, please contact Havis at 1-800-524-9900 or visit www.havis.com for additional product support and information.

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- DS-PAN-422
- DS-PAN-423
- PKG-DS-PAN-422
- DS-PAN-421-2
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**WARNING**

- NEVER STOW OR MOUNT THE DOCKING STATION DIRECTLY IN A VEHICLE AIRBAG DEPLOYMENT ZONE.
- DO NOT USE COMPUTER WHILE DRIVING.

**CAUTION**

- READ ALL INSTRUCTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION.
- DO NOT CONNECT PERIPHERALS (USB, ETHERNET, POWER IN) SIMULTANEOUSLY TO COMPUTER AND DOCKING STATION WHEN COMPUTER IS DOCKED OR DAMAGE MAY OCCUR.

**NOTICE**

- THE DS-PAN-420 SERIES DOCKING STATIONS ARE DESIGNED EXCLUSIVELY FOR USE WITH PANASONIC CF-54 TOUGHBOOK COMPUTERS ONLY AND ARE NOT BACKWARD COMPATIBLE WITH THE PANASONIC CF-52 OR CF-53 COMPUTER.
- DS-PAN-420 SERIES DOCKING STATIONS ARE COMPATIBLE WITH ALL MODELS OF THE CF-54 COMPUTER (LITE, PRIME, PERFORMANCE, OR GLOVED MULTI TOUCH).
- FOR DOCKING STATION MODELS EQUIPPED WITH A BUNDLED POWER SUPPLY (DS-PAN-422, DS-PAN-422-2, PKG-DS-PAN-422, PKG-DS-PAN-422-2), REFER TO THE SUPPLIED LIND POWER SUPPLY REFERENCE GUIDE.
- WHEN LAPTOP IS DOCKED, THE BATTERY WILL ONLY CHARGE BETWEEN -2°C to 60°C (28°F to 140°F). PLEASE REFER TO PANASONIC CF-54 OWNER’S MANUAL FOR MORE INFORMATION.

Optional Accessories (continued)

**DS-DA-417 - Screen Support**

(For further Installation Instructions, refer to the Instructions included with DS-DA-417)

1) Position the Screen Support bracket so the mounting holes line up with threaded holes at bottom (rear left corner) of Docking Station.
2) Install two (2) #8-32 x 3/8” screws through the bracket and into Docking Station. Torque screws to 20 in-lbs ± 10%.
3) Dock your computer in the Docking Station and open display latch on Screen Support.
4) Open computer screen to meet the stop bumper on Screen Support.
5) Press slightly on top left corner of computer screen while closing the display latch of Screen Support over the computer screen.
6) While pulling on knob of adjustment pin, adjust arm of Screen Support with screen to desired position.

**LPS-204 - Power Supply Mounting Bracket**

(For further Installation Instructions, refer to the Instructions included with LPS-204)

1) Orient Lind Power Supply so the cords are rear facing.
2) Select the desired side of mounting. Insert four (4) 6-32 x 1 1/4” screws through the washers and Lind Power Supply, through Mounting Bracket. Torque screws to 25 in-lbs ± 10%.
3) Remove the two (2) 1/4”-20x3/8” screws from the Docking Station and insert them through the holes in the Mounting Bracket.
4) Attach the Mounting Bracket and Lind Power Supply to the Docking Station with the two (2) 1/4”-20x3/8” screws. Torque screws to 80 in-lbs (9.0 Nm) ± 10%.
Optional Accessories

**DS-DA-602 - Rugged Communications Hub**
*(For further Installation Instructions, refer to the Instructions included with DS-DA-602)*

1) Remove Strain Relief Bracket from Rugged Communications Hub, and retain fastener for reassembly.

2) Identify the three (3) mounting points on the Rugged Communications Hub and the three (3) mounting points on the bottom of the Docking Station.

3) Secure the Rugged Hub to the bottom of the Docking Station using three (3) #6-32 x 1/4" long Thread-Forming, Pan Head Screws *(DS-DA-602 Rugged Communications Hub Hardware Kit Item 4b)*. Torque screws to 14 in-lbs ± 10%

4) Connect all required cables then reinstall the Strain Relief Bracket with the retained fastener from Step 1.

**Specifications**

<table>
<thead>
<tr>
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**EC DECLARATION OF CONFORMITY** in accordance with EN 45014

Manufacturers Name: Havis, Inc.
Manufacturers Address: 47801 Anchor Court, Plymouth Twp, MI 48170 USA

Declares under our sole responsibility that the product:

- Product name: Havis Docking Station for Panasonic Toughbook CF-54
- Model: DS-PAN-42X, where ‘X’ may be any alphanumeric character and which describes product options. May be followed by any alphanumeric characters which describe product options.
- Product Options: This declaration covers all options of the above product which bear the CE Marking.

Is in conformity with the following standards or other normative documents:

- Directive 2011/65/EU: Restriction of the use of certain hazardous substances (RoHS)
- BS EN 50498:2010: Section 7, after market electronic equipment in vehicles.

Supplementary Information:
The product herewith complies with the requirements of the EMC Directive 2004/108/EC. This product requires the use of the provided e-Marked automotive power supply when used within vehicles.

Plymouth twp, MI, USA April 30, 2015 Bruce Jonik, Director of Engineering, Havis, Inc.

**FCC 47CFR, Part 15 compliance:** This is an FCC Class B device. Any changes or modifications to the model DS-PAN-42X not expressly approved by Havis, Inc. could void the user’s authority to operate this equipment.
1) If previously locked, unlock Docking Station using supplied key (Hardware Kit Item 2).

2) Rotate Latch Handle counter-clockwise to the “UNDOCK” position.

3) Once unlatched grab both sides of computer and carefully lift out of Docking Station, rear end first.

4) For theft deterrence, secure computer by locking Docking Station with supplied key (Hardware Kit Item 2).

Docking Station will accommodate all Toughbook 54 models, providing access to bottom SmartCard reader while computer is secured in the Docking Station.

Parts Included

Docking Station
Locator Post
Hold Down Lug
Latch Handle
Barrel Lock
Hold Down Lug

Mounting Bracket (PN-0034-SM)
Numerous hole patterns present in Mounting Bracket will accommodate Havis Motion Devices as well as most competitors’ Hardware Kit.

Hardware Kit (HWK-0036)
This Hardware Kit includes:
1. Zip Ties (5)
2. Keys (2)
3. 1/4”-20 x 5/8” long Button Head Screws (5)
4. Phillips 1/4”-20 x 3/8” long Screws (5)

Tools required for installation:
- 5/32” Hex Drive (for attaching Mounting Bracket to Motion Device with Button Head 1/4”-20 Screws)
- #3 Phillips (for attaching Docking Station to Mounting Bracket with Button Head 1/4”-20 Screws)

Operation - Docking (continued)

Operation - Undocking
1) If previously locked, unlock Docking Station using supplied key.

2) Rotate Latch Handle counter-clockwise to the “UNDOCK” position.

3) Once unlatched grab both sides of computer and carefully lift out of Docking Station, rear end first.
1) Ensure Docking Station is unlatched by positioning the Latch Handle to the "UNDOCK" position.

2) With rear of computer elevated, load front of computer into Docking Station ensuring the computer’s handle extends under the Front Hooks. Take care to center computer in Docking Station when lowering.

3) Lower back of computer onto Docking Station, ensuring computer properly aligns with both Locator Posts in Docking Station. With computer seated on Docking Station, apply light downward pressure to the rear of computer and, rotate Latch Lever to DOCKED position.

Port Replication Capability

**NOTE:** Antennas only available on select Docking Station models (DS-PAN-421-2, DS-PAN-422-2, PKG-DS-PAN-422-2)

To expand your available USB & Ethernet peripheral requirements, there are provisions for mounting a Havis Rugged Communications Hub (part number DS-DA-602) directly to the DS-PAN-420 Series Docking Station. *(See Page 10 for more information)*

**Antenna Identification** *(DS-PAN-421-2, DS-PAN-422-2, PKG-DS-PAN-422-2)*

Docking Station Antenna Interface
Installation

1) Remove the Mounting Bracket from the packaging. Install the Mounting Bracket to the Motion Device using (4) 1/4”-20 x 5/8” long screws (Hardware Kit Item 3). Torque screws to 80 in-lbs (9.0Nm) ± 10%.

NOTE: Numerous hole patterns present in Mounting Bracket will accommodate Havis Motion Devices as well as most competitors’

2) Lower the Docking Station to the Mounting Bracket as shown and secure with (4) 1/4”-20 x 3/8” long screws (Hardware Kit Item 4). Torque screws to 80 in-lbs (9.0Nm) ± 10%.

NOTE: We recommend applying a drop of medium strength (blue) thread locking adhesive to the threads of all fasteners.

Cable Management

1) Tip the Docking Station to a position that is comfortable to work with.

2) Install all cables that are necessary for computing needs. Use Zip Ties (Hardware Kit Item 1) to strain relieve cables at rear of Docking Station.

3) Route all cables along one side to ensure proper cable management and avoid pinching any cables. Strain relieve the entire cable bundle to one of the strain relief points along the corners of the Mounting Bracket to prevent tension on the connectors.

4) Create a service loop with cables to ensure that no tension is on the connectors and to enable intended motion.

5) Tie off cables onto a stationary part of the mounting system.

Collect cables and secure to the mounting system. (Note: Mounting system not included)
Installation

1) Remove the Mounting Bracket from the packaging. Install the Mounting Bracket to the Motion Device using (4) 1/4”-20 x 5/8” long screws (Hardware Kit Item 3). Torque screws to 80 in-lbs (9.0Nm) ± 10%.

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1) Tip the Docking Station to a position that is comfortable to work with.

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4) Create a service loop with cables to ensure that no tension is on the connectors and to enable intended motion.

5) Tie off cables onto a stationary part of the mounting system.

\textbf{Collect cables and secure to the mounting system. (Note: Mounting system not included)}
1) Ensure Docking Station is unlatched by positioning the Latch Handle to the “UNDOCK” position.

2) With rear of computer elevated, load front of computer into Docking Station ensuring the computer’s handle extends under the Front Hooks. Take care to center computer in Docking Station when lowering.

3) Lower back of computer onto Docking Station, ensuring computer properly aligns with both Locator Posts in Docking Station. With computer seated on Docking Station, a) apply light downward pressure to the rear of computer and b) rotate Latch Lever to DOCKED position.

CAUTION
DO NOT FORCE LAPTOP ONTO DOCKING STATION. IF THERE IS RESISTANCE, CHECK ALIGNMENT OF COMPUTER ON DOCKING STATION.
1) If previously locked, unlock Docking Station using supplied key (Hardware Kit Item 2).

Docking Station will accommodate all Toughbook 54 models, providing access to bottom SmartCard reader while computer is secured in the Docking Station.

4) For theft deterrence, secure computer by locking Docking Station with supplied key (Hardware Kit Item 2).

Operation - Docking (continued)

Operation - Undocking

1) If previously locked, unlock Docking Station using supplied key.

2) Rotate Latch Handle counter-clockwise to the “UNDOCK” position.

3) Once unlatched grab both sides of computer and carefully lift out of Docking Station, rear end first.
Optional Accessories

DS-DA-602 - Rugged Communications Hub
(For further Installation Instructions, refer to the Instructions included with DS-DA-602)

1) Remove Strain Relief Bracket from Rugged Communications Hub, and retain fastener for reassembly.

2) Identify the three (3) mounting points on the Rugged Communications Hub and the three (3) mounting points on the bottom of the Docking Station.

3) Secure the Rugged Hub to the bottom of the Docking Station using three (3) #6-32 x 1/4” long Thread-Forming, Pan Head Screws (DS-DA-602 Rugged Communications Hub Hardware Kit Item 4b). Torque screws to 14 in-lbs ± 10%

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Precautions

• Do not place metal objects or containers of liquid on top of the Docking Station
• If a malfunction occurs, immediately unplug the Power Supply and remove the laptop
• Use only the specified Power Supply (Part # LPS-112) with this Docking Station
• Do not store the Docking Station where water, moisture, steam, dust, etc. are present
• Do not connect cables into ports other than what they are specified for
• Do not leave the Docking Station in a high temperature environment (greater than 85°C, 185°F) for a long period of time

Specifications

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Directive 2011/65/EU, Restriction of the use of certain hazardous substances (RoHS)
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Plymouth twp, MI, USA April 30, 2015 Bruce Jonik, Director of Engineering, Havis, Inc.

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- DS-PAN-422-2
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OPTIONAL ACCESSORIES

DS-DA-417 - Screen Support
(For further Installation Instructions, refer to the Instructions included with DS-DA-417)
1) Position the Screen Support bracket so the mounting holes line up with threaded holes at bottom (rear left corner) of Docking Station.
2) Install two (2) #8-32 x 3/8” screws through the bracket and into Docking Station. Torque screws to 20 in-lbs ± 10%.
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LPS-204 - Power Supply Mounting Bracket
(For further Installation Instructions, refer to the Instructions included with LPS-204)
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