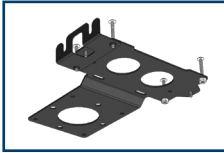# Related Products

Havis offers a wide variety of accessory products specifically for use with the DS-PAN-430 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 Toughbook 54 and 55 with cigarette lighter adaptor.

LPS-211
Power Supply Mounting Bracket

Mount a power supply or USB hub directly to your Docking Station with this versatile bracket.

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-430 Series Docking Stations.

DS-DA-602
Rugged Communication Hub

Rugged USB/Ethernet hub makes adding peripherals to your mobile workspace easy and safe.
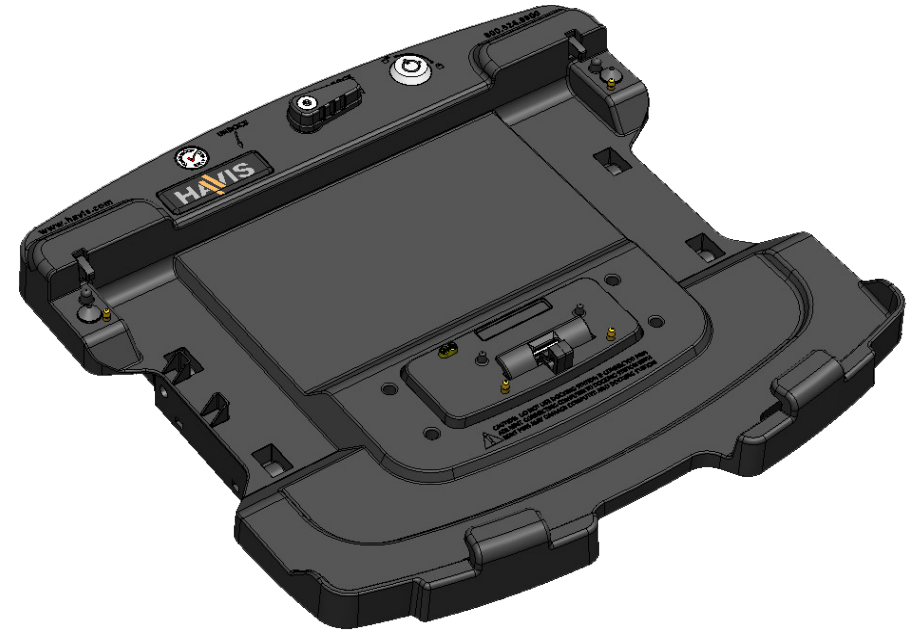
Owner's Manual
Havis Rugged Mobile Docking Station
For Panasonic TOUGHBOOK 54 and 55

DS-PAN-430 Series

DS-PAN-431	DS-PAN-432	DS-PAN-433
DS-PAN-431-2	DS-PAN-432-2	

HAVIS
Productivity in motion

www.havis.com
1-800-524-9900

Havis is pleased to provide this Owner's Manual to aid in the proper installation and use of the DS-PAN-430 Series Docking Station for the Panasonic TOUGHBOOK 54 and 55 laptop computer.

For questions regarding the set-up of your DS-PAN-430 Series Docking Station, please contact Havis at 1-800-524-9900 or visit www.havis.com for additional product support and information.

This Owner's Manual applies to the following Part Numbers:

DS-PAN-431	DS-PAN-432	DS-PAN-433
DS-PAN-431-2	DS-PAN-432-2	

⚠ WARNING

- NEVER STOW OR MOUNT THE DOCKING STATION DIRECTLY IN A VEHICLE AIRBAG DEPLOYMENT ZONE.
- DO NOT USE COMPUTER WHILE DRIVING.
- NE JAMAIS RANGER OU MONTER LA STATION D'ACCUEIL DIRECTEMENT DANS UNE ZONE DEnDÉPLOIEMENT D'AIRBAG D'UN VÉHICULE.
- N'UTILISEZ PAS D'ORDINATEUR PENDANT LA CONDUITE.

⚠ CAUTION

- READ ALL INSTRUCTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION.
- DO NOT STORE THE DOCKING STATION WHERE WATER, MOISTURE, STEAM, DUST, ETC. ARE PRESENT
- DO NOT DOCK OR UNDOCK YOUR COMPUTER UNLESS IT IS POWERED OFF. DOCKING OR UNDOCKING WITH YOUR COMPUTER IN ON, STANDBY, HIBERNATION, OR SLEEP MODES CAN CAUSE PERMANENT DAMAGE.
- FOR THE DS-PAN-431 & DS-PAN-431-2 DOCKING STATIONS: DO NOT CONNECT DIRECTLY TO VEHICLE VOLTAGE SOURCE: This product requires a certified, automotive grade, Panasonic approved 120W power source rated for a continuous, regulated 15.6 VDC output (Havis Part Number LPS-112 or equivalent). Failure to comply with this requirement will cause product damage that is NOT repairable and is NOT covered under warranty.
- FOR THE DS-PAN-433 DOCKING STATION: DO NOT CONNECT DIRECTLY TO VEHICLE VOLTAGE SOURCE: The Panasonic TOUGHBOOK 54 and 55 requires a certified, Panasonic approved power source rated for a continuous, regulated 15.6 VDC output. Failure to comply with this requirement will cause product damage that is NOT repairable and is NOT covered under warranty.
- LISEZ ATTENTIVEMENT TOUTES LES INSTRUCTIONS AVANT DE COMMENCER L'INSTALLATION.
- NE PAS STOCKER LA STATION D'ACCUEIL DANS UN ENDROIT EXPOSÉ À L'EAU, A L'HUMIDITÉ, À LA VAPEUR, À LAPOUSSIÈRE, ENTRE AUTRES.
- NE PAS PLACER NI RETIRER VOTRE ORDINATEUR DE LA STATION D'ACCEUIL TANT QU'IL N'EST PAS ÉTEINT. L'AMARRAGE OU LE RETRAIT DE VOTRE ORDINATEUR LORSQU'IL EST ALLUMÉ OU EN MODES VEILLE, HIBERNATION OU REPOS PEUT CAUSER DES DOMMAGES PERMANENTS.
- POUR LES STATIONS D'ACCUEIL DS-PAN-431 & DS-PAN-431-2 : NE PAS CONNECTER DIRECTEMENT À LA SOURCE DE TENSION DU VÉHICULE : Ce produit nécessite une source d'alimentation certifiée pour automobiles de 120 W approuvée par Panasonic et conçue pour une sortie continue et régulée de 15,6 V CC (référence Havis LPS-112 ou équivalent). Le non-respect de cette exigence entraînera des dommages au produit qui ne sont PAS réparables et qui ne sont PAS couverts par la garantie.
- POUR LA STATION D'ACCUEIL DS-PAN-433 : NE PAS CONNECTER DIRECTEMENT À LA SOURCE. DE TENSION DU VÉHICULE : Les TOUGHBOOK 54 et 55 de Panasonic nécessitent une source d'alimentation certifiée et approuvée par Panasonic, conçue pour une sortie continue et régulée de 15,6 V CC. Le non-respect de cette exigence entraînera des dommages au produit qui ne sont PAS réparables et qui ne sont PAS couverts par la garantie.
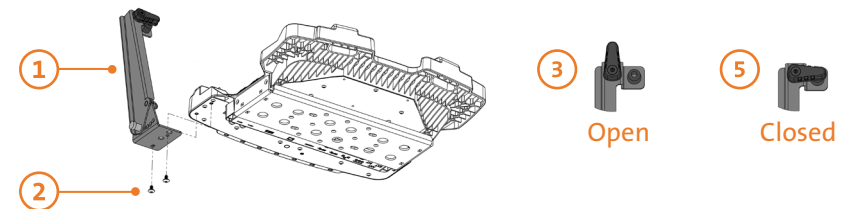
NOTICE

- FOR DOCKING STATION MODELS EQUIPPED WITH A BUNDLED POWER SUPPLY *(DS-PAN-432, DS-PAN-432-2)*, 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 TOUGHBOOK 54 or 55 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.
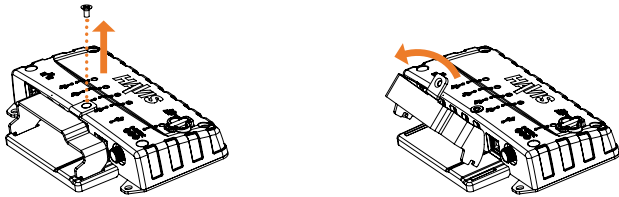6) While pulling on knob of adjustment pin, adjust arm of Screen Support with screen to desired position.
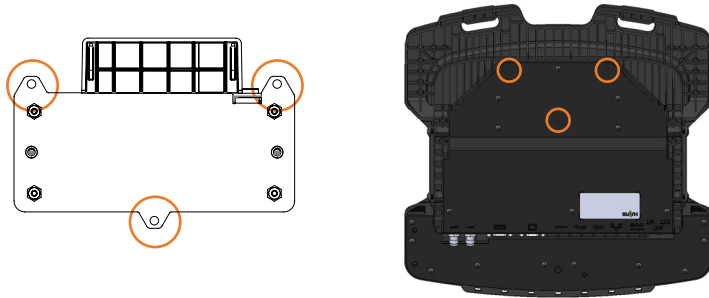

Open   Closed

Optional Accessories

DS-DA-602 - Rugged Communications Hub

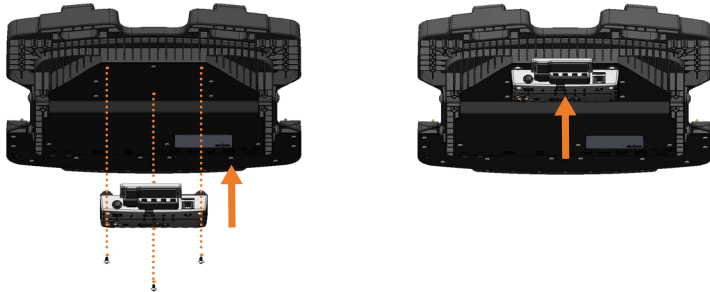*(For further Installation Instructions, refer to the Instructions included with DS-DA-602)*

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%

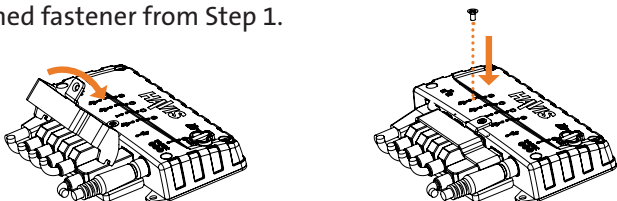4) Connect all required cables then reinstall the Strain Relief Bracket with the retained fastener from Step 1.

Table of Contents

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 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

Power Supply Input	15.6V DC-In
Dimensions	14.1" (35.8 cm) W x 13.7" (34.8 cm) D x 3.0" (7.6 cm) H
Weight	5.4 lbs (2.5 kg)
Operating Environment	-20° C to 60° C (-4° F to 140°F)
Storage Environment	-40° C to 85° C (-40° F to 185° F)

EU DECLARATION OF CONFORMITY [CWN1]

Manufacturers Name: Havis, Inc.
Manufacturers Address: 47099 5 Mile, Plymouth Twp, MI 48170 USA
75 Jacksonville Road, Warminster, PA, 18974, USA

This declaration of conformity is issued under the sole responsibility of the manufacturer.
Product name: Docking Station For Panasonic Toughbook 54 and 55
Model: DS-PAN-43X, 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 directives, standards, or other normative documents:
UN ECE Regulation 10: UNECE Regulation 10.05, Paragraph 3.2.9; Clauses 6.5, 6.6, 6.7, 6.9; "Uniform provisions concerning the approval of behicles with regard to electromagnetic compatibility"

EMC Directive 2014/30/EU: EN 50498:2010, "Electromagnetic compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles"

RoHS Directive Directive 2011/65/EU: EN 50581:2012, "Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances"

The object of the declaration described above is in conformity with Directive 2011/65/EU of the European Parliment and [CWN2] of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Supplementary Information:
The object of thedeclaration described above is in conformity with the relevant Union harmonization legislation. This product requires the use of a recommended E Marked automotive power supply when used within vehicles.

Signed for and on behalf of Havis, Inc:
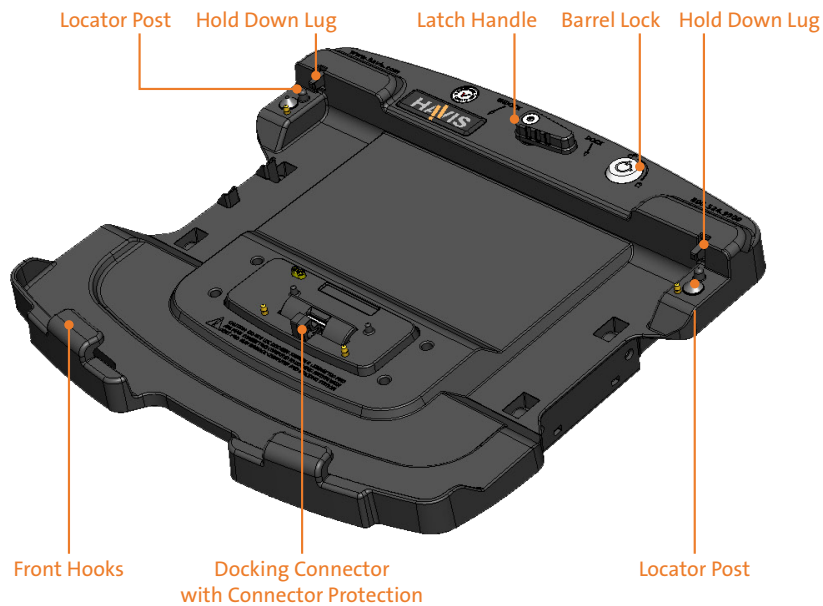47099 5 Mile, Plymouth Twp, MI 48170 USA   September 17, 2019   Bruce Jonik, Director of Engineering

FCC 47CFR, Part 15 compliance: This is an FCC Class B device. Any changes or modifications to the model DS-PAN-43X not expressly approved by Havis, Inc. could void the user's authority to operate this equipment.

Parts Included

Docking Station

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

Front Hooks   Docking Connector
with Connector Protection   Locator Post
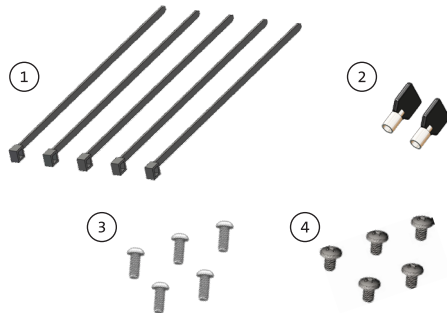
Mounting Bracket *(PN-0034-SM)*

Numerous hole patterns present in Mounting Bracket will accomodate Havis Motion Devices as well as most competitors'

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)
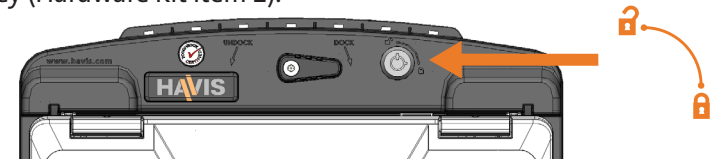4. Phillips 1/4"-20 x 3/8" long Screws (5)

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)*

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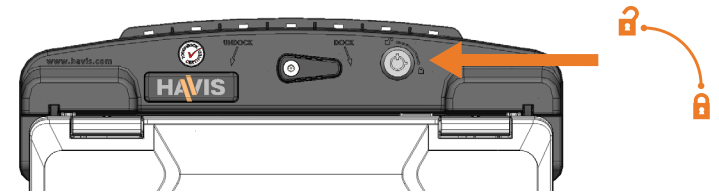

> Docking Station will accommodate all TOUGHBOOK 54 and 55 models, providing access to bottom SmartCard reader while computer is secured in the Docking Station.
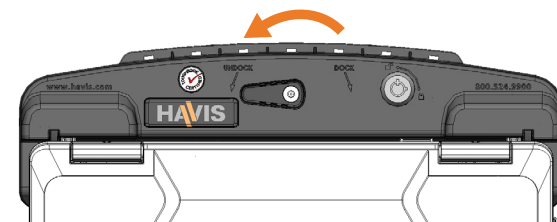
Operation - Undocking

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

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

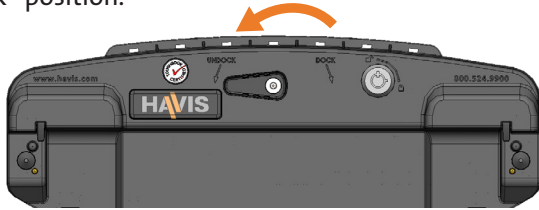3) Once unlatched grab both sides of computer and carefully lift out of Docking Station, rear end first.

Operation - Docking

⚠ CAUTION

DO NOT FORCE LAPTOP ONTO DOCKING STATION. IF THERE IS RESISTANCE, CHECK ALIGNMENT OF COMPUTER ON DOCKING STATION.
NE FORCEZ PAS LA TABLETTE SUR LA STATION D'ACCUEIL. EN CAS DE RÉSISTANCE, VÉRIFIEZ SI VOTRE TABLETTE EST CORRECTEMENT CONFIGURÉE
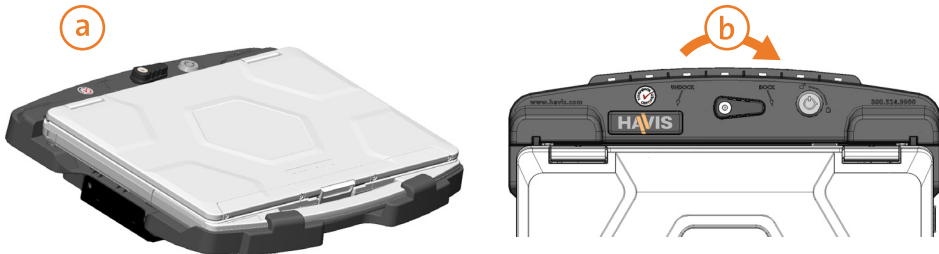POUR LA STATION D'ACCUEIL.

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.
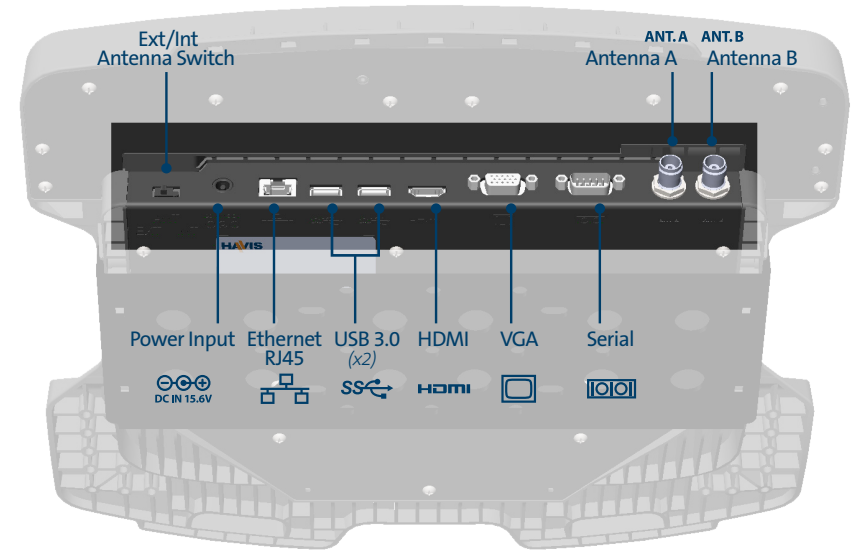

3) Lower back of computer onto Docking Station, ensuring computer properly aligns with both Locator Posts in Docking Station. With computer seated on Docking Station, ⓐ apply light downward pressure to the rear of computer and, ⓑ rotate Latch Lever to DOCKED position.

Port Replication Capability

Ext/Int Antenna Switch — ANT. A Antenna A — ANT. B Antenna B

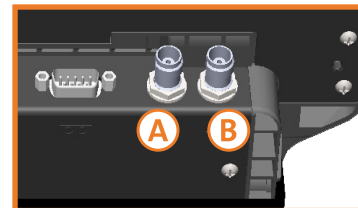Power Input — Ethernet RJ45 — USB 3.0 (x2) — HDMI — VGA — Serial
DC IN 15.6V

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-430 Series Docking Station. *(See Page 10 for more information)*
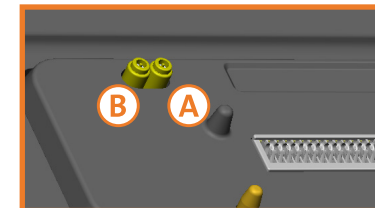
Antenna Identification *(DS-PAN-431-2, DS-PAN-432-2)*

A - Lower
B - Upper

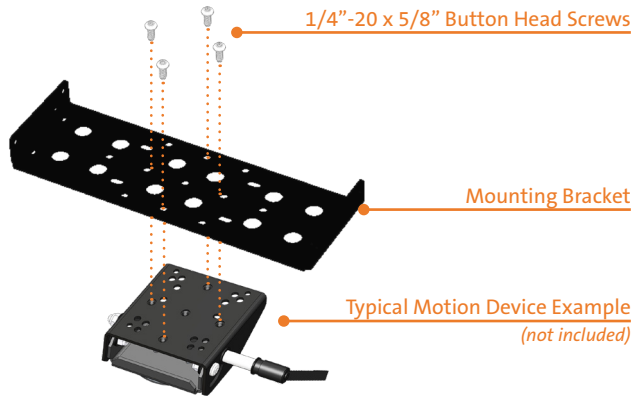**Antenna Connectors** *(TNC)*
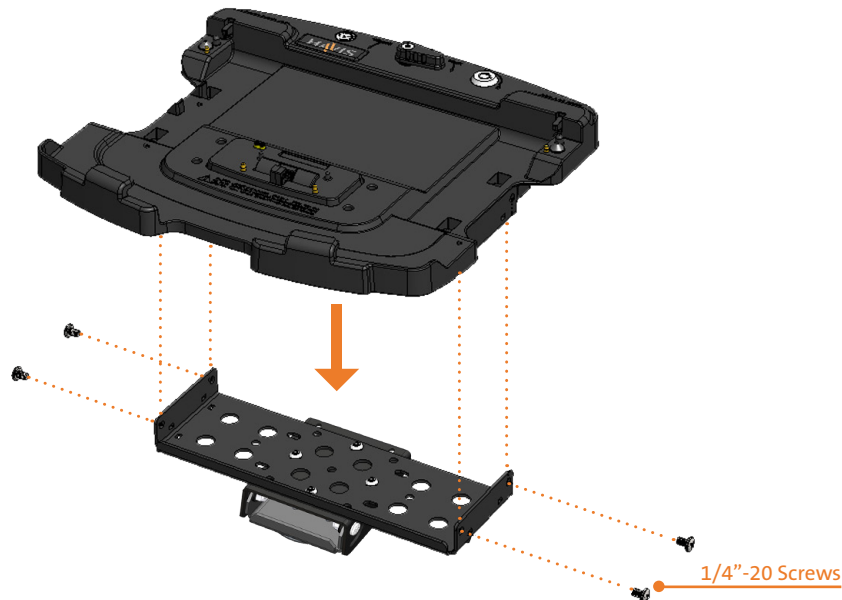

Docking Station Antenna Interface

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 accomodate Havis Motion Devices as well as most competitors'

1/4"-20 x 5/8" Button Head Screws

Mounting Bracket

Typical Motion Device Example
(not included)

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

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 (9.0 Nm) ± 10%.

1/4"-20 Screws

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.

Insert as many zip ties as necessary to secure cables.

2

3

1

4

This loop must be large enough to allow full range of expected rotation and extension without stressing connections.

5

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