

Multipurpose Backpack

User Guide

Innovation by design



Introduction

The purpose of this User Guide is to demonstrate both functionality and flexibility of the Datrend Multipurpose Backpack (P/N 7006-065), which can be used with vPad-A1, venTest, vPad-ES 2, vPad-ES, vPad-353 and Phase 3.

Furthermore, this document includes instructions on how to configure a modified version of the Backpack (P/N 7006-068) to suit a one- or two-channel vPad-IV analyzer.

The various configurations discussed in this manual are merely suggestions. Users may adjust the Multipurpose Backpack to find best-fit solutions to suit the test equipment to be transported, whether it be a Datrend instrument or other device. Common sense should be practised to ensure adequate protection of instrument displays, controls and connectors, as well as accessories such as sensors, cables and power supplies. Articles should be packed securely so that internal movement which may occur during transport will not result in damage to test instrumentation or accessories.

Datrend Systems warrants the Multipurpose Backpack to be free from defects in material and workmanship for a period of 90 days from the date of receipt. Datrend assumes no responsibility for Backpack contents and in no way warrants, guarantees or implies that such contents will not suffer damage as a result of transport mishap or any other cause.



Datrend Systems Inc. is a Canadian-based biomedical engineering company focused on providing solutions and leading-edge biomedical test equipment for hospitals, clinics, and medical equipment manufacturers. We pride ourselves with innovative solutions to help customers to increase their efficiency, productivity, and accuracy through automated yet intuitive systems. We have expanded continuously since our initial launch in 1991 to serve the global market with the best solution for our customers.

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Backpack Overview (P/N: 7006-065)

When you open the Datrend Multipurpose Backpack, there will be five dividers inside the Main Compartment. The compartments are individually labeled below so that they can be referenced later in this document. The Top Compartment also has a divider labeled below as item (6).



Figure 1: Backpack with all of its dividers removed.



Figure 2: Backpack Velcro dividers shown.

- Main Divider (1)
- Support Block (2)
- venTest Protector (3)
- Standard Divider (4, 5)
- Top Compartment Divider (6)

Configuration Instructions for vPad-A 1



Figure 3: Attach the Main Divider (1).



Figure 4: Insert Support Block (2), and adjust Main Divider (1) if necessary so that it is resting against the Support Block (2).



Figure 5: Push the Support Block (2) to the bottom of the Backpack.



Figure 6: vPad-A1 should now fit snugly into the space provided.

Note: during transport, the smartphone should be oriented so that the screen faces downward.



Figure 7: Next, install 1 or 2 Standard Dividers (4, 5). In the image above, only one Standard Divider has been used to create a space for vPad-O2.



Figure 8: Finally, the power supply and power cord are stored in the Backpack. The Top Compartment Divider (6) is already installed. The Top Compartment can be used to store other accessories and cables used for patient monitor testing.

Configuration Instructions for venTest



Figure 9: Attach the Main Divider (1).



Figure 10: If necessary, use the Support Block (2) to set proper spacing for the Main Divider (1). Remove the Support Block afterward.



Figure 11: Place venTest base unit as shown. Install a Standard Divider (4), and also the venTest Protector (3).

Note: If done properly, the venTest Protector will rest next to the differential pressure inputs and the optional 10 bar pressure input (if present). Try avoid having the venTest Protector covering the power button (green) to reduce the chance of accidentally turning on the device during transport.



Figure 12: Insert the other Standard Divider (5). Its position should align near the mid-point of the venTest to provide proper support.

All sensors, accessories and power supply can now be stored in the Main and Top Compartments.

Configuration Instructions for vPad-ES 2 / vPad-ES / vPad-353



Figure 13: Remove all dividers from the Main Compartment.



Figure 14: The most efficient way to load the unit is to slide it in from one end as shown above.



Figure 15: The entire unit should fit snugly in the backpack.



Figure 16: With the tablet facing down, place it on top of the base.



Figure 17: The power cord can be placed on top of the tablet. The Kelvin cables and other accessories can be placed in the Backpack's Top Compartment.

The Main Divider (1) can be attached to the backpack as shown. This will allow the power cord to be held more tightly in place.



Figure 18: Note the left Velcro of the Main Divider (1) should adhere to itself.

Configuration Instructions for Phase 3



Figure 19: Insert the Support Block (2) and attach the Standard Divider (4). A gap (identified by an arrow in the photo) which lies between the Standard Divider and top of the Main Compartment should be less than 2 cm.



Figure 20: Insert the paddle plate for the Phase 3 as shown.



Figure 21: The Phase 3 can now be placed face down inside the Main Compartment where the Support Block (2) will protect the LCD display. Power supply, cables, and accessories can be placed in the Top Compartment.



Figure 22: An alternative setup, shown above, is to place the paddle plate on top of the Phase 3.

Note: This method should only be used if more room is needed for extra cables and accessories (identified by the arrow, above).

vPad-IV Backpack Overview (P/N: 7006-068)

The vPad-IV Backpack (7006-068) comprises a Standard Backpack (7006-065) and a Divider Foam set for vPad-IV (7006-443). This bag is capable of transporting either one- or two-channel vPad-IV systems.

Customers with unused Standard Backpacks may order the additional inserts to convert the Standard Backpack to P/N 7006-068.

The Divider Foam set for vPad-IV Backpack includes four dividers:

- vPad-IV Spacer Block (7)
- vPad-IV Cover Protector (8, 9)
- vPad-IV Bag Divider (10)



Figure 23: Standard Backpack with additional vPad-IV Backpack Inserts.

Configuration Instructions for vPad-IV



Figure 24: Place the vPad-IV Spacer Block (7) as shown.



Figure 25: Attach the vPad-IV Bag Divider (10) next to the vPad-IV Spacer Block (7).

For a one-channel vPad-IV analyzer, leave the Spacer Block in the Backpack.

For a two-channel vPad-IV analyzer, remove the Spacer Block.

Note: In Figure 25, the Spacer Block has been installed at an angle to make it more visible. Typically, the Spacer Block is placed at the bottom of the Backpack or is removed according to the number of channels to be packed.



Figure 26: Place the vPad-IV Cover Protector (8) into the Backpack. Note the rectangular gap, indicated by the arrow above, which is created by the Cover Protector.

Note: Whether you are using the Spacer Block or not, placement of the Cover Protector is identical for both one- and two-channel systems.



Figure 27: Place the vPad-IV system into the Backpack, so that the handle rests inside the rectangular gap.

Although not essential, vPad-IV Modules should be oriented so that the output port faces the bottom of the Backpack.



Figure 28: Fit the second vPad-IV Cover Spacer (9) into the Backpack.



Figure 29: The tablet, power supply, input/output tubing kit, and remaining accessories can be placed inside the Backpack.

Try keep the tablet away from the vPad-IV handle by leaving a gap, identified by an arrow in the above photo, in the mesh pocket.



Figure 30: An alternative way to pack the vPad-IV is shown above, where the handle is closer to the zipper side.