

## **Overview**

The BlueView ProViewer Imaging sonars are designed to work in conjunction with VideoRay Pro 3 and Deep Blue ROVs, or independently as stand-alone systems. Instructions for using the BlueView ProViewer as an independent stand-alone system are provided by BlueView in the User's Handbook that is delivered with the product. The information contained in this document is designed to supplement that manual with instructions for mounting and operating the BlueView ProViewer on a VideoRay.



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The ProViewer comes mounted on a specially designed VideoRay skid. In order to use the ProViewer as a stand alone system it should be removed from the VideoRay skid.

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Your computer must be set up using the directions found in "Set Your Computer's IP Address" on pages 7 and 8 of the BlueView User's Handbook. This part is the same whether you are using the sonar as an independent stand-alone system or in conjunction with the ROV.

The general differences between independent stand-alone and ROV operations are described in the following sections. Note that the top-side interface box is different in each case.

## **Operation on VideoRay**

To use the ProViewer on a VideoRay, you must mount the sonar on the ROV. First, remove the standard skid from the ROV by removing the screws that hold the skid to the main dome retainer rings. There are two screws in the front and two screws in the rear. The ProViewer can then be mounting to the ROV using the same four screws. The sonar head should face forward and the connection cables should be at the rear of the ROV. After mounting the ProViewer, connect the 9 pin accessory connector to the accessory port at the rear of the ROV above the dome. Removal of the float block may make it easier to connect the 9 pin connector to the accessory port.

### **CAUTION**

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The accessory port or any pass-through connectors must be terminated with a dummy terminator plug so that the connection is sealed from water intrusion before submersing the ROV in water.

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## Using the BlueView ProViewer P450E and P900E with VideoRay

Connect the ROV to the tether and control panel as usual.

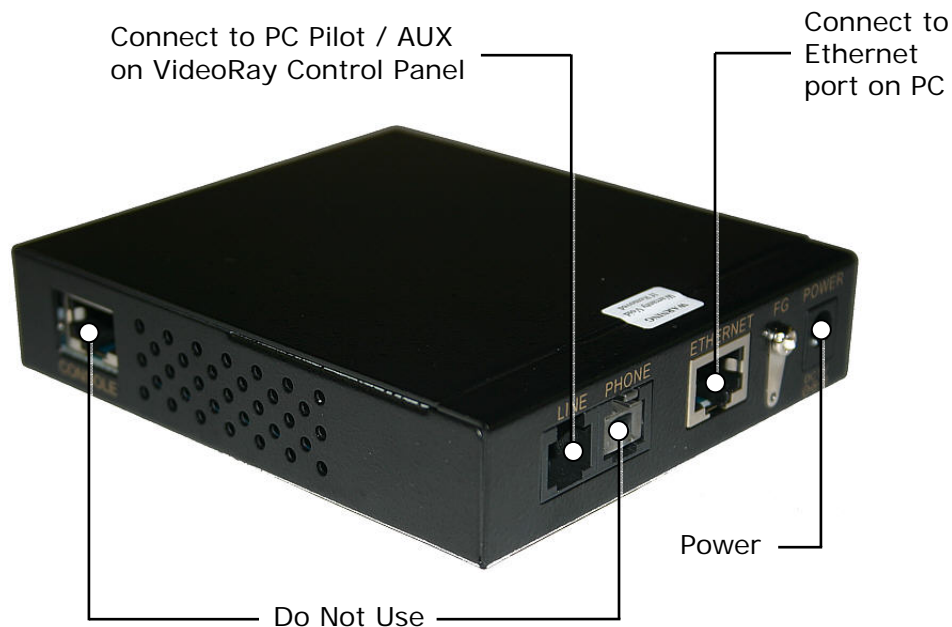


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In order to operate BlueView on a VideoRay, use the top-side interface box labeled "Netsys". Do NOT use the connections labeled "Console" or "Phone," and do NOT use the top-side interface box labeled BlueView.

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On the top-side, use the 9 pin (DB9F) to RJ11 cable to connect the VideoRay control panel "PC Pilot / AUX" (or "RS-232 / AUX" on older control panels) to the "Line" connection of the Netsys box. Connect the standard Ethernet cable from the "Ethernet" connection of the Netsys box to the "Ethernet" connection of the PC. Connect the power connection of the Netsys box to a local power source.



### VideoRay Use Top-side Interface Box and Connections

Turn on the control panel and the PC.

When the top-side interface box powered on, you should see a green light next to "Ready." Once the connection between the Netsys box and the PC has been established, you should see a green light next to "Ethernet." Once a connection between the Netsys box on the sonar has been established you should see a green light next to "Link."



## Using the BlueView ProViewer P450E and P900E with VideoRay



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You must wait for a connection between the top-side interface box and the sonar is established before the software will connect with the sonar. This typically takes from 30 seconds to one minute.

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Start the BlueView sonar software according to the instructions that begin on page 11 of the BlueView User's Handbook.

Check the buoyancy and adjust the ballast as necessary for the operating conditions. You can adjust the tilt of the sonar head independently from the nose-up or nose-down attitude of the ROV.

### **CAUTION**

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The depth of the tilt screw holes is shallow. Using a screw that is longer than the size provided can potentially rupture the housing of the sonar head, causing a leak and resulting in permanent damage to the sonar head. Also, you must use the supplied washer with the screws provided. Do not use a screw that will penetrate deeper than 3/8 inch (9.5 mm) from the face of the sonar head housing, and do not over tighten the screws.

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To adjust the pitch (vertical angle) of the sonar head, loosening the four side screws, and then retightening them after adjusting the sonar head to the desired angle. For under hull inspections, a slightly upward pitch is recommended. For bottom inspections, a slightly downward pitch is recommended.

## ***Stand-alone Operation***

For stand-alone BlueView use, use the box labeled "BlueView Technologies" ("Junction Box" in the BlueView manual) with connections labeled "Sonar / J1" and "PC / J2" and follow the procedures in the BlueView User's Handbook.