VISION RESEARCH

PHANTOM

when it's too fast to see, and too important not to.®

DATA SHEET

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Remote Control Unit

Small, lightweight, handheld controller even doubles as a video monitor.

Key Benefits:

The Phantom Remote Control Unit (RCU) is an ideal companion to your Phantom digital high-speed camera. The **small, lightweight, handheld controller** allows you to control most settings on Phantom cameras, as well as view and save recorded cines to a CineMag® – it even doubles as a video monitor.

Available in **wired and wireless models**, the RCU supports the entire high-speed imaging workflow. Set up the camera, trigger the shot, view the cine on the LCD screen, trim to the frames of interest, and save the result to a CineMag. (The wireless mode does not provide a video display on the RCU.)

The **ergonomic design** of the Phantom RCU allows you to hold it in one hand while using your other hand to manipulate settings; you can set it on a horizontal surface; or, you can mount it to any available mounting point using the 1/4-20 tap in the bottom of the unit.

Key Features:

Extensive control over Phantom cameras without the need to tether the camera to a PC

Lightweight and handheld for mobility and flexibility

Intuitive/simple user interface minimizes learning curve

Easy control over hard-to-access camera installations

Compatible with PCC Software

AMETEK®
MATERIALS ANALYSIS DIVISION

RCU

Available in wired and wireless models, the RCU supports the entire high-speed imaging workflow.

The 5" active TFT display is **easy to see – even outdoors**. The sensitive touch screen allows you to completely control a camera with just the **tap of your finger**. A **scroll/jog dial** gives you an alternate (and fast!) way to change many settings or to scrub through a recorded cine.

Just 7" wide, 4" tall and 3-1/2" deep at the hand-grip/battery compartment, and weighing only 26 ounces, the RCU is big enough to use as a video monitor, and small enough to be truly hand-held. (17.75 cm by 10.2 cm by 8.9 cm, 740 gm.)

The RCU connects to Phantom v-Series cameras via our new **Break-out-Box**. Not only do you get convenient RCU connectivity, but the Break-out-Box also makes **all camera signals easily accessible**. The RCU gets power and a video signal from the camera (NTSC or PAL from a v-Series camera). It can display SDI signals by using a separate SDI cable connection. The RCU can also be powered by battery. This is needed if you want to use the RCU to set up several cameras without the need to restart the RCU each time, or if you are working in a wireless use model.

If you have a Phantom HD, or 65 model, the RCU **connects directly to the Remote port** on the camera – no need for the Break-out-Box – or connect wirelessly using a Bluetooth™ dongle that plugs into the camera. (The RCU is not compatible with the Miro or Miro eX line.)

The optional industrial Bluetooth* connectivity gives you the freedom to **control the camera wirelessly**. (You will likely still want a wired monitor on which to preview shots.)

Simply connect the RCU to the Break-out-Box or camera, press the ***Menu*** button to power up, and within a few seconds you are ready to setup and control the camera. On the home screen, you have four menu choices: ***Status***, ***Setup***, ***Capture***, ***Play***.

Select ***Status*** by tapping it, and you will see a screen that shows the current camera setup and status. This is a great way to quickly view key information about the camera.

Setup is where you control camera settings and prepare your high-speed shot.

Tap on ***Capture*** to arm the camera and begin acquiring pretrigger frames. When ready, trigger the shot. You can use the trigger button on the RCU, a trigger wired through the Break-out-Box, or our unique Image-Based Auto-Trigger on compatible cameras.

Play gives you access to the recorded cine(s). View a cine on the RCU screen, trim it to contain only relevant frames, and save it to a CineMag (if your camera has a CineMag attached.)

You can hide the on-screen menu system entirely at any time and view the video image on the LCD screen by tapping on the close icon "X" button on the LCD display. Or, simply minimize the menu system and share the display with both video and control menus.

Easily accessible buttons on the RCU allow you to move through the menu system and execute common commands with the push of a button. The ***Menu*** button will restore the menu system view if it is hidden, or, take you back to the Home screen if the menu is already visible. The ***Video*** button allows you to sequence through several useful views of the live image to help you prepare your shot. Tap it once to see a full-screen live image, tap it again to get a zoomed image, a third tap will display an image where any saturated pixels are shown in false color. In three taps you can judge framing, focus and exposure easily!

Two **user-programmable buttons*** are available. You can assign any of several common functions to a button, including the ability to load a saved camera setup. If you have a suite of camera settings that you use frequently, save those settings into user-defined camera profiles and apply a profile to any compatible camera with just the press of a button.

With the Phantom Remote Control Unit, you get a small, lightweight, hand-held camera control unit as well as a video monitor in one package. To learn more, contact your Vision Research sales representative today, or visit our web site.

The RCU is big enough to use as a video monitor, and small enough to be truly hand-held.

** Some features not enabled at initial release.*

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Remote Control Unit

Additional Features:

Size: 7" x 4" x 3.5" max (W, H, D)
17.75 cm x 10.2 cm x 8.9 cm

Weight: 26 oz (740 gm)

5" (diagonal), 800 x 480 Active TFT Touchscreen Display

Connectivity: Phantom v-Series via Break-out-Box
Phantom Flex, HD or 65 direct to Remote Port

Wireless Control: Optional Industrial Bluetooth Connectivity

Up to 1.75 hours of battery operation with backlight at 70%

Easily Accessible Buttons including Two User-programmable Buttons

Battery charge time: 2.75 hours

Voltage: 12-36VDC, AC adapter included

Power: 7 W, 12.6 W when charging battery

Temperature range: Operational -10˚C to 40˚C,
Storage -20˚C to 50˚C

Humidity: 85% non-condensing

Shock: 5.5G 11 ms half sine wave, 10 times all axes

Vibration: 0.25G, 0.5-500 Hz, 1.0 Octave/min, 10 sweeps

Natural Frequencies: no natural frequencies between 5 and 200 Hz

EMI: Passes Class A

Focused

Since 1950, Vision Research has been shooting, designing, and manufacturing high-speed cameras. Our single focus is to invent, build, and support the most advanced cameras possible.

AMETEK Vision Research's digital high-speed cameras are subject to the export licensing jurisdiction of the Export Administration Regulations. As a result, the export, transfer, or re-export of these cameras to a country embargoed by the United States is strictly prohibited. Likewise, it is prohibited under the Export Administration Regulations to export, transfer, or re-export AMETEK Vision Research's digital high-speed cameras to certain buyers and/or end users.

Customers are also advised that some models of AMETEK Vision Research's digital high-speed cameras may require a license from the U.S. Department of Commerce to be: (1) exported from the United States; (2) transferred to a foreign person in the United States; or (3) re-exported to a third country. Interested parties should contact the U.S. Department of Commerce to determine if an export or a re-export license is required for their specific transaction.

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