



## **USER'S MANUAL**

### ***TwinSplit® E.D. for VGA***

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## **Introduction**

Thank you for purchasing TwinSplit E.D. This product allows for the output of a VGA adapter to be seen on 1 or 2 monitors simultaneously. Each monitor can be located up to 700 feet away depending on the VGA operating mode.

This product is supplied with the following components:

- 1 TwinSplit E.D.
- 1 9 Vdc power transformer
- 1 6 ft. VGA jumper cable
- 1 User's Manual

In addition, you may have ordered optional monitor extension cables. These cables have been specially designed by Communications Specialties for low signal loss. The CAB-27 VGA monitor extension cable is available in any custom length.

## **Installation**

1. Locate TwinSplit E.D. within 6 feet of the computer.
2. Connect the 6 ft. VGA jumper cable supplied from the VGA output of the computer to the connector marked VGA.
3. Connect the VGA compatible monitors to the OUTPUT on the rear of TwinSplit E.D. Monitor extension cables (CAB-27) may be used to extend the distance up to 700 feet, according to the table below.
4. Plug the 9 Vdc wall power transformer supplied into the jack on the rear of TwinSplit E.D.
5. Plug the power transformer into an AC power wall outlet. The front panel LED should glow red, indicating the unit is properly powered.
6. Turn on the computer and the monitor(s). The monitor(s) will now display the computer's output.

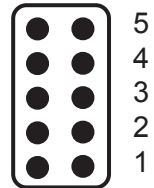
7. The front panel knobs are used to adjust the gain and peaking of the amplifiers of the TwinSplit E.D. to compensate for the long extension cable being used. These knobs have 6 positions from SHORT to LONG and correspond to cable lengths for standard VGA up to 480 lines approximately as shown.

Knob Position	Cable Length
1	0-125 ft.
2	125-250 ft.
3	250-375 ft.
4	375-500 ft.
5	500-600 ft.
6	600-700 ft.

**Note:** For SUPER-VGA modes operating at 600 lines, the maximum recommended length is 600 feet. For SUPER-VGA modes operating at 768 lines, the maximum recommended length is 500 feet.

8. As shipped, TwinSplit E.D. is internally jumpered to support a standard color VGA monitor. The internal jumpers are located on the jumper block JP1 and may be changed for different monitor types as shown.

Monitor Type	JP1 Jumpers
Color VGA	2 and 5
Monochrome VGA	3 and 5
8514/A VGA	1 and 3
XGA	1 and 4



**JP1**

## **System Operation**

TwinSplit E.D. requires no ongoing adjustments once it is installed. It is designed to work continuously and can be placed “out of sight” if desired.

The design intention of the product is to provide a reliable means of extending the viewing position of VGA monitors. This means compensating for the normal signal losses which will occur when adding cable to a VGA monitor. This is achieved through equalized amplification so that the signal at the remote end matches closely to the signal as it left the VGA adapter. This ensures the truest representation of the VGA image as it relates to detail and color fidelity. If lengths of longer than 700 feet are necessary, consult Communications Specialties for system design assistance.

Additionally, each monitor output is independently buffered. This ensures isolation and proper signal levels regardless of the number of monitors used. The splitters may be cascaded to achieve multiple outputs at different distances from the computer. Communications Specialties can help with specific application assistance.

Please note that the plug-in transformer will feel warm after the unit is on for a period of time. This is normal as TwinSplit E.D. draws a significant amount of power.

## **FCC User Information**

WARNING: This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart B of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

## **Troubleshooting**

If one or two colors are missing on one of the VGA monitors, make sure all connections to TwinSplit E.D. are secure. Make sure the monitor connector jackscrews are tightened.

Of course, if you have any questions about the operation of TwinSplit E.D. or are experiencing difficulties, please contact us via phone, fax or email with your question. Please include information regarding the computer and monitor make and model and cable distances involved.

## **Limited Warranty**

Communications Specialties, Inc. (CSI) warrants that for a period of one year after purchase by Buyer, TwinSplit E.D. will be free from defects in material and workmanship under normal use and service. A Return Material Authorization (RMA) number must be obtained from CSI before any equipment is returned by the Buyer. All material must be shipped to CSI, Hauppauge, New York, at the expense and risk of the Buyer. Units returned to the Buyer will be shipped freight collect.

CSI's obligation under this warranty will be limited, at its option, to either repair or replacement of defective units, including free materials and labor, at its customer service facility in Hauppauge, New York. In no event shall CSI be responsible for any incidental or consequential damages or loss of profits or goodwill.

CSI shall not be obligated to replace or repair equipment damaged by fire, war, acts of God or similar causes, or equipment that has been serviced, altered, improperly installed or abused.

RMA numbers and repairs can be obtained from:

Communications Specialties Headquarters

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