

Video Splitters



Office, classroom, or industrial setting—
Black Box has the right splitter for you.

FEATURES

Composite Video Switch:

- Broadcast a video signal from one source to up to eight video displays.
- Full 30-MHz bandwidth.
- Plug-and-play installation.
- Remote control unit included.

Video Splitters:

- Share information on your screen with others in the office, in the classroom, or on the shop floor.
- Available in S-Video, Composite, and RGBS models.

OVERVIEW

Composite Video Switch, 8 to 1 (AC042A)

The switch can be remotely switched from up to 1000 feet (304.8 m) away, with the included hard-wired remote control unit. The switch features full 30-MHz bandwidth for optimum signal integrity. The Composite Video Switch (AC042A) supports devices with BNC connectors.

Team the Composite Video Switch (AC042A) and the Composite Video Splitter (AC044A-R2) together to consolidate video output and broadcast it to eight different monitors, TVs, or projectors.

Use the switch (AC042A) to bring images from up to eight video sources (VCR, DVD player, satellite receiver, etc.) together in one location. Then use a splitter (AC044A-R2) to “split” the video output to eight different devices.

Other splitters (AC043A-R2, AC084A-R3–AC085A-R3) are also available, but only the AC044A-R2 works with the AC042A switch. The switch and all the splitters are easy to install and feature two connectors on the front for fast temporary hookups.

S-Video Splitter (AC043A-R2), Composite Video Splitter (AC044A-R2)

Get crisp images and appropriate black levels even with a variety of monitors and cable lengths. The S-Video Splitter (AC043A-R2) is for S-VHS, Hi-8, and ED-Beta applications that use 4-pin mini DIN connectors. The Composite Video Splitter (AC044A-R2) is a Composite amplifier with BNC connectors.

Both splitters also give you full 30-MHz bandwidth—plus fixed, manual, and automatic gain controls that make it easy to compensate for various cable lengths and signal matching. The units feature DC restoration, so you get the appropriate black level, too. Place the splitters on a flat surface or in a rack.

The S-Video Splitter works with S-Video Cable (EHN058-0006), and the Composite Video Splitter works with RG-59 Coax Cable (ETN59-0006-BNC).

RGBSplit-2, -4 (AC084A-R3–AC085A-R3)

The RGBSplit-2 and RGBSplit-4 (AC084A-R3–AC085A-R3) enable you to connect monitors in industrial settings.

Both RGBSplits support all sync formats: Composite, separate H&V, sync on green, and sync on RGB.

These splitters work with VGA–RGBHV Cable (EYRGBS4-0006) and RGBHV–RGBHV Cable with Ferrite Bead (EYRGBS5-0006).

Technically Speaking

- The Composite Video Switch includes vertical interval switching controlled by a wired, electronic remote control that selects from up to eight inputs (two on the front panel and six on the rear panel). The device also features unity gain and a single-digit LED that indicates the selected channel.
- Connecting the remote control unit included with the Composite Video Switch is easy. The unit includes a 25-foot (7.6-m) remote-control cable with modular (RJ-11) plugs.
- S-Video was devised by TV engineers years ago. It's a relatively inexpensive and very effective way to reduce distortions that occur in TV/monitor and VCR processing. Compared to Composite video, the results are dramatic. S-Video gives you more detail and less color distortion. Maximum resolution is 525 lines.

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called “tech” can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p. m. and you need help, but your vendor's tech support line is closed.

According to a survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.

TECH SPECS

AC042A:

Bandwidth — 30 MHz
Connectors — (9) BNC F (8 input and 1 output), (1) RJ-11 F for P6 remote
Indicators — (1) numerical LED
Power — 9 VDC, 500 mA
Size — 1.7"H x 7"W x 6.5"D (4.3 x 17.8 x 16.5 cm)
Weight — 3 lb. (1.4 kg)

AC043A-R2-AC044A-R2:

Bandwidth — 30 MHz
Input Impedance — 75 ohms Y, C
Output Impedance — AC043A-R2: 75 ohms Y, C;
 AC044A-R2: 75 ohms
Propagation Delay — <10 ns
Rise/Fall Times — <10 ns
Connectors — AC043A-R2: (9) 4-pin mini-DIN F (1 input and 8 output);
 AC044A-R2: (9) BNC F (1 input and 8 output)
Power — 9-VDC, 1A, 105-130-VAC or 220-VAC plug-mounted transformer
Size — AC043A-R2: 1.6"H x 7"W x 5.5"D (4.1 x 17.8 x 14 cm);
 AC044A-R2: 1.6"H x 7"W x 6.5"D (4.1 x 17.8 x 16.5 cm)
Weight — 1 lb. (0.5 kg)

AC084A-R3-AC085A-R3:

Frequency Response — Bandwidth: 300 MHz, -3 dB
 Rise time: <2.5 ns
 Fall time: <2.5 ns
 Maximum Pixel Resolution Supported: 1600 x 1280
 Maximum Dot Clock (Pixel Rate) Supported: 200 MHz
 NOTE: Maximum Resolution and Dot Clock may be derated at longer output cable lengths.
Inputs — RGB circuits support sync on any or all inputs; H input supports horizontal sync or composite sync; RGB inputs are terminated in 75 ohms
Outputs — Sync outputs may be terminated in either TTL or 75 ohms
Connectors — AC084A-R3: (3) BNC F (1 input and 2 output);
 AC085A-R3: (5) BNC F (1 input and 4 output)
Power — Separate AC power supply is included for either 110-VAC/60 Hz or 230-VAC/50 Hz;
 Output: 9 VDC (unregulated) at 500 mA to 1 Amp: UL® and CSA (110-VAC) or VDE (230-VAC) approved
Size — AC084A-R2: 1.5"H x 7.25"W x 6.25"D (3.8 x 18.4 x 15.9 cm);
 AC085A-R2: 2.5"H x 7.25"W x 6.25"D (6.4 x 18.4 x 15.9 cm)
Weight — 1.75 lb. (0.8 kg)



AC042A: front view



AC042A: rear view



AC044A-R2: front view

WHAT'S INCLUDED

Composite Video Switch (AC042A):

- ◆ Video switch
- ◆ Remote-control unit
- ◆ 25-foot (7.6-m) remote-control cable with modular plugs
- ◆ 9-VDC, 500-mA plugmounted transformer
- ◆ User's manual

Video Splitters (AC043A-R2-AC044A-R2, AC084A-R3-AC085A-R3):

- ◆ Video splitter
- ◆ 9-VDC, 1A plugmounted transformer
- ◆ User's manual

Item	Code
Composite Video Switch, 8 to 1	AC042A
Video Splitters	
S-Video (1 In, 8 Out)	AC043A-R2
Composite (1 In, 8 Out)	AC044A-R2
RGBSplit-2 (1 In, 2 Out)	AC084A-R3
RGBSplit-4 (1 In, 4 Out)	AC085A-R3
You may also need...	
RCA Female/BNC Male Video Adapter	FA870
For optimum performance and a 20% savings, order...	
S-Video Cable	EHN058
Coax Cable, RG-59 PVC (CL2)	ETN59-BNC
Deluxe Video Cable, (1) RCA Connector	EJ513