

How to Use the Model 9A60 VGA to Component Video Adapter

The Model 9A60 adapts VGA-type RGBHV video sources to Y Pb Pr Component video for use with High Definition Television (HDTV) monitors. With compatible sources and monitors, it permits HDTV images generated by a set top box (STB) or personal computer to be displayed on an HDTV monitor that is capable of displaying the image format being produced by the source.

The 9A60 is not a format converter. It passes the horizontal and vertical synchronization timings and pixel content to the outputs without modification. For example, a 1080i RGBHV source with a 9A60 will require your HDTV monitor to accept a 1080i Y Pb Pr component video input. Generally, 1080i, 720p and 480p sources may be displayed on monitors designed for the desired format, using the 9A60. However, some combinations of sources and televisions may produce undesired display artifacts or fail to work at all.

Installation

Connect the 9A60 to the HDTV source using the supplied VGA cable and power it up with the included 12 volt power pack. Connect the output of the 9A60 to the HDTV (or "Progressive" or "Digital") Component input jacks of the monitor. Power up the system and check for a picture. If none appears on the monitor, turn off the power and check and correct format compatibility before restarting the monitor.

Caution: Do not operate the monitor for more than a minute with an unstable picture; damage to the deflection circuits or CRTs may result.

Regarding the RCA DTC100

The 9A60 in most cases will provide good results when interfacing the DTC100 with HDTV televisions. If the picture is not centered correctly, call your dealer for instructions on adjusting the DTC100 via its Service menu.

For HDTV Computers

For viewing DVDs, use software such as *PowerStrip* to set the output parameters of a high-performance video card to provide an HDTV format acceptable to the television. For displaying normal PC video on HDTV sets for games and other PC applications, make sure the television can accept a 480p input. Remember, HDTV monitors that accept progressive (non-interlaced) video generally have a maximum vertical refresh rate of 60Hz; avoid sending higher rates from your PC.

Specifications

Input: Standard RGBHV video on a HD-15 VGA connector

RGB Video Inputs: 700mV p-p

HV Sync Inputs: 5 volt TTL

Output: Y Pb Pr Component video on 3 gold-plated RCA jacks

Y Video Output: .701G + .212R + .087B

Pb Output: .500B - .384G - .116R

Pr Output: .500R - .445G - .055B

Y Sync Output: 300mV negative bilevel, 600nS horizontal, unprocessed vertical

Video Bandwidth: -3dB @ 250MHz

Dimensions: 4.55" X 3.30" X 1.25" not including mounting flanges

Included Accessories: 6-foot VGA male-to-male cable, 12 volt DC power pack