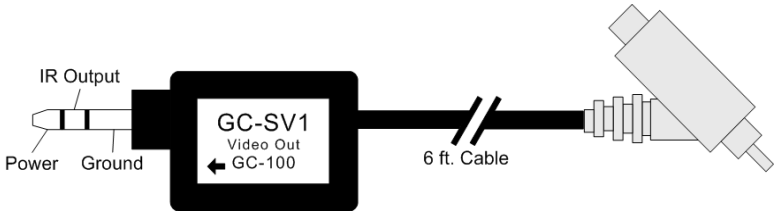
Global Caché
GC-SV1
Video Out Sensor

The GC-SV1 is a composite video detection sensor, making it ideal for determining the power state of VCRs and DVDs. It provides an ON indication during the presence of a composite video signal of the type found on the back of VCRs and DVDs. The GC-SV1 can connect directly to either "Component Video Out" (the green or Y RCA plug) or "Composite/Line Out" (the yellow or Video RCA plug) found on the back of most video equipment. The GC-SV1's unique RCA "patch" plug allows it to be used in installations without sacrificing the video equipments outputs. Simple remove the existing RCA video cable, connect the GC-SV1, and reconnect the RCA video cable back to the top of the GC-SV1 RCA patch plug. Note, the GC-SV1 patch plug color will NOT match the standard RCA plug colors used on VCR and DVD equipment. The GC-SV1 detects video standards employing negative going sync NTSC, PAL and SECAM signals with amplitude from 0.5V to 2.0V p-p.

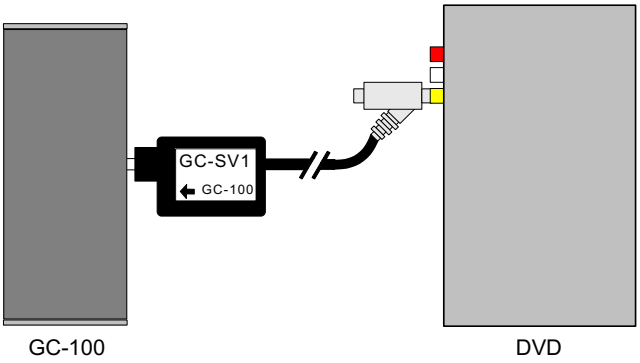


For audio/video equipment, changes in AC wall current can be very small, making it difficult to measure and determine its power state. For video equipment, video detection is an excellent way to determine its power state. When this type of equipment is powered up, a video signal will be present even if the tape or DVD is not in play mode. However, video equipment may not provide a video signal until a few seconds after power up. This must be considered when employing video sensing for power sensing in an installation.

The GC-SV1 was designed to work seamlessly with the GC-100 Network Adapters. The following steps outline setup and testing of the GC-SV1 in a GC-100 installation. Before plugging the GC-SV1 3.5mm jack into a GC-100 IR/Sensor connector, this GC-100 connector must be configured as an input. This is determined through the GC-100 internal Web pages. See the GC-100 Quick Start for more details. Without anything plugged into the IR/Sensor connector, the indicator above the connector will be ON when properly configured as an input. This indicator will be OFF when the

GC-SV1 is plugged into the GC-100 and the RCA patch plug is disconnected, (simulating no video). Now, connect the GC-SV1 to a VCR or other video

source and show that the indicator is ON when a video signal is present. The indicator above the GC-100 IR/Sensor connector will now indicate the power state of the video equipment.



Using the GC-SV1 with a DVD

The GC-SV1 requires +5V to operate, and provides a sensor output representing the presence of a composite video signal. The pin assignments are shown in the diagram above.

Specifications:	Minimum	Typical	Maximum
Sensor output to Video present	-	-	40mS
Sensor output to Video absent	-	-	40mS
Composite video input level	0.5V p-p	-	2.0V p-p
Sensor Output ON @100µA	Vcc – 0.1V	-	-
Sensor Output OFF @100µA	-	-	0.1V
Supply Voltage	4.50V	-	5.50V
Supply Current		50µA	100µA

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