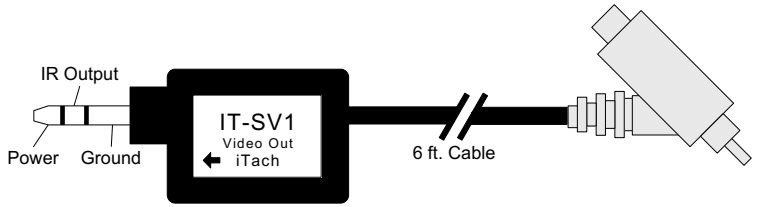
Global Caché
IT-SV1
Video Out Sensor

The IT-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 IT-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 IT-SV1's unique RCA "patch" plug allows it to be used in installations without sacrificing the video equipment's outputs. Simply remove the existing RCA video cable, connect the IT-SV1, and reconnect the RCA video cable back to the top of the IT-SV1 RCA patch plug. Note, the IT-SV1 patch plug color will NOT match the standard RCA plug colors used on VCR and DVD equipment. The IT-SV1 detects video standards employing negative going sync NTSC, PAL and SECAM signals with amplitude from 0.5V to 2.0V p-p.

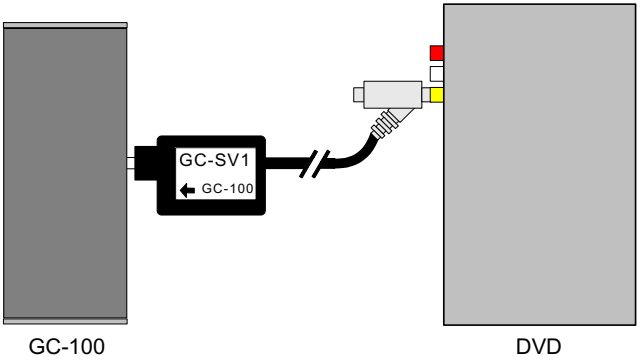


For video equipment, video detection is an excellent way to determine its power state. When this type of equipment is powered up, a video signal will be present even if the tape or DVD is not in play mode. However, video equipment may not provide a video signal until a few seconds after power up. This must be considered when employing video sensing for power sensing in an installation.

The IT-SV1 was designed to work seamlessly with the iTach WF2IR and IP2IR network adapters. The following steps outline setup and testing of the IT-SV1 in an iTach installation. Before plugging the IT-SV1 3.5mm jack into an iTach IR/Sensor connector, the iTach connector must be configured as a Sensor Input. This is set through the iTach internal web pages. See the iTach Quick Start for more details. Without anything plugged into the IR/Sensor connector, the LED indicator above the connector will be ON when properly configured as an input. This indicator will be OFF when the IT-SV1 is plugged into the iTach and the RCA patch plug is disconnected, (simulating no video). Now, connect the IT-

SV1 to a DVD player or other video source and show that the LED indicator is ON when a video signal is present.

The indicator above the iTach input connector will now indicate the power state of the video equipment.



Using the IT-SV1 with a DVD

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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