



*SmarTek Systems, Inc.*TM

*14710 Kogan Drive
Woodbridge, VA 22193
703-680-6554
Sales 410-315-9727*

SmarTek Systems Computer Controlled Video Switch

(14 June 1998)

Introduction

The SmarTek Systems Computer Controlled Video Switch is a low cost video signal switch capable of selecting one (1) output from eight (8) inputs signals under computer control. The switch was designed to provide reasonable switching times of video signals for routing to monitors or particularly for input to video frame grabbers. Signal switching and settling times are approximately 100 milli-seconds. Power is supplied to the video switch via a standard barrel type power plug and may be 5 VDC regulated or 7.5 to 12 VDC unregulated. The type of supply voltage desired is specified when ordering so the unit may be properly configured. Video signal channel selection is accomplished with four (4) address signals and one (1) strobe signal supplied via a Mini-DIN-8 connector. SmarTek Systems supplies a DB-25M (PC-LPT) to DIN Cable for use with the LPT port of PCs or SmarTek Systems' T-BOX Processor.

Control Signal Description

There are eight (8) input signal BNC connectors and one (1) output signal BNC connector (Figure 1). Selection of the output channel is accomplished by setting the state of each of four address signals (TTL levels) and then toggling the Strobe signal from low to high to low to "clock in" the address signal levels:

| Address Signal | Ch 1 | Ch2 | Ch3 | Ch4 | Ch5 | Ch6 | Ch7 | Ch8 |
|----------------|------|-----|-----|-----|-----|-----|-----|-----|
| D0 | L | H | L | H | L | H | L | H |
| D1 | L | L | H | H | L | L | H | H |
| D2 | L | L | L | L | H | H | H | H |
| D3 | H | H | H | H | H | H | H | H |

