

**CONTROLLERS AND COMBI BOX OVERVIEW**

**PCI Bus Card Options.**

This card can be used with the classic or Opto style hand or foot controllers. The Opto style controllers allow the use of additional buttons with their associated LED status displays and benefit from reliable opto-encoder rotary controls.

The controller connects to PCI Bus PromptCard via a 9 way D extension cable.

A single HC1 Opto control may be situated remotely from the PCI Bus Card with the aid of a Coax Adaptor. The adaptor is located at the PCI Bus Card end where it is connected to the card with a 9 way D extension cable. The remote end HC1 (or foot controller) must be powered using the power supply provided.

The Coax Adaptors are linked together using standard 75 ohm coax cable. The length of this cable can be up to 300 metres. The cable may be routed through any standard studio routing system, patch panels, etc provided there are no active components in the line.

**Smart Combi Box**

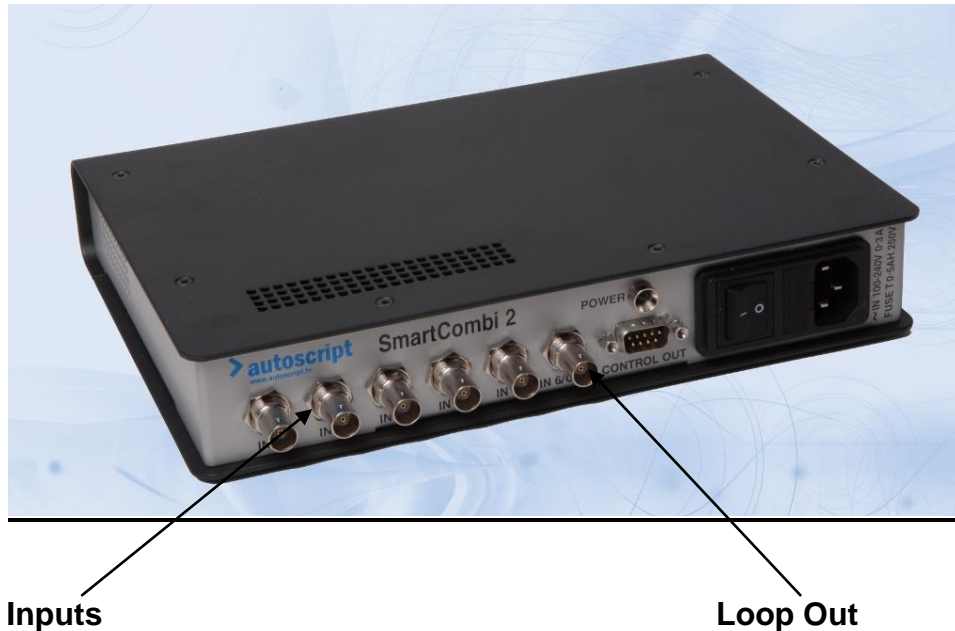
Up to four Opto hand or foot controllers may be connected to the PCI Bus Card using the Smart Combi Box. The Smart Combi Box has a 9 way D plug which connects to the PCI Bus Card via a 9 way D extension cable. The Smart Combi Box provides four coax input BNC sockets as inputs from the controllers, connections are made with BNC coax cable. The maximum length of any cable in this set up is 300 metres.

The Smart Combi Box may be expanded to provide an additional four controller inputs. A second Smart Combi Box may be linked to the first via a 75 ohm coax cable. Two coax sockets are provided on the Combi Box to facilitate expansion. When connecting two boxes via the coax link, the right hand connector (looking from the back of the unit) is designated as the output and should connect to either of the two connectors on the other unit. Multiple Combi Boxes can be linked as required to provide any number of extra online controllers.

The maximum length of coax connecting any two Combi Boxes is 300 metres.

# AUTOSCRIPT OPTO CONTROLNET.

## 1. SMART COMBI 2



The Smart Combi unit combines four control inputs into one control output. Units can be “daisy chained” together to increase the number of control inputs to control a single Autoscript PCI PromptCard. If more than four remote inputs are required the Smart Combi Boxes can be “daisy chained” together. The realistic limit to the number of Combi Boxes is 7 with this amount there will be no delay. As an example, we have installations using five boxes to give 20 remote inputs.

### CONNECTIONS:

1. 12V DC input from external PSU with 4-pin XLR
2. 9-Pin to 9-Pin D type cable from Smart Combi to PC PromptCard.
3. 75 Ohm Coax cable from controller into control input.
4. OPTIONAL: Coax link from Smart Combi to Smart Combi, loop Through if required.

**NOTE: B channel is used to connect back to PCIPrompt card**  
**If coax receiver is being used to extend the distance between Combi box and PCI Prompt card.**

## 2. OPTO/MAGNO FOOT CONTROL connections



The Opto Foot control is a potless device which uses an opto sensor to control the scrolling speed. The control can be connected directly to a PC PromptCard via a 9-pin D Type Connector, wired one to one. The standard maximum extension is 60 feet (18metres).

For longer distances up to 300 yards (300metres) the Autoscript Control Net system, based on coax cable, must be used. If the foot control is the only device to be connected directly to the PC Card, a single coax converter is required at the PC Card end.

A coax converter is built into the Opto foot control and uses a BNC connector.

If multiple controllers are required see section 1 Smart Combi  
Magno foot control connections are identical except an RJ11 is used to connect a desk pad  
FORWARD/REVERSE OPTION 1.



The system includes a floor switch to toggle between forward and reverse.

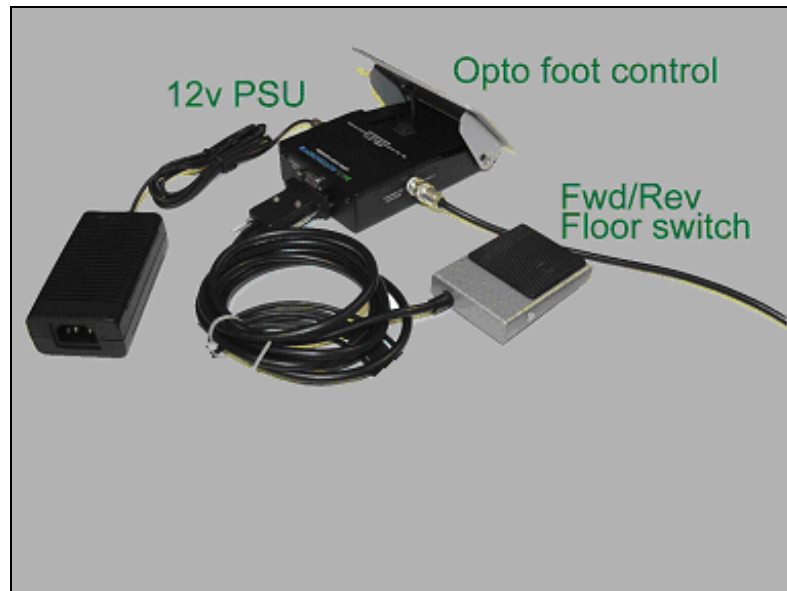
**NOTE:** If the switch has toggled reverse the prompt text will creep backwards until toggled into forward. This is in order that the presenter is aware of the status of the foot control.

## FORWARD/REVERSE OPTION 2.



A Six button, desk pad is available. The button functions are: Story Next, Story Back, Toggle Forward/Reverse, Back to Top of Script, Programmable Function , Blank Screen.

**NOTE: If the Forward/Reverse Button has toggled reverse, the prompt text will creep backwards until toggled into forward. This is in order that the presenter is aware of the status of the foot control.**



### OPTO FOOT CONTROL CONNECTIONS:

1. 12VDC input from external PSU 4-pin latching Hirose plug.
2. 75 Ohm BNC control cable to Smart Combi
3. Reverse switch for foot control and Desk pad via 15 way D-Type.

## OPTO HAND CONTROL.



The HC/1 Opto Desk Hand Control is a potless device, which uses an opto sensor to control the prompt output speed.

When the HC/1 hand control is plugged straight into the PC PromptCard using the 9 pin to 9 pin D type serial cable a maximum distance of 60 feet (18 metres) can be run between the control and the base station.

If additional distance is required, a range of up to 300 yards (300 meters), The BNC output should be used. An adaptor must be used at the PCI PromptCard end. Coax BNC cable is used to link the HC1 with the Coax receiver

If a Smart Combi is being used at the base station the Hand Control will be connected to one of the inputs and a second Adaptor is not required.

## COAX CONVERTOR CONNECTIONS:



Fig 2.

12 VDC input using external PSU and Hirose connector.

9 way D type connector either to HC/1 or PC Prompt Card.

BNC, 75 OHM, cable to Smart Combi. See Fig 2

## **EXTENDING THE DISTANCE BETWEEN AN OPTO CONTROL DEVICE AND THE PCIPROMPTCARD BASE STATION.**

### **UP TO 60 FEET (18 METRES) NO ADDITIONAL POWER REQUIRED**

Single Opto Hand Control - Direct Connection using 9-way cable

Single Opto Foot Control - Direct Connection using 9-way cable

#### **MULTIPLE CONTROL INPUT**

Direct Connection from Foot/Hand control to four input Serial Combi Box using 9-way cable.

#### **UP TO 900 FEET (300 METRES) LOCAL PSU REQUIRED**

Single Opto Hand Control

– Single Control → Coax Cable → Coax Converter to PCIPromptCard.

Single Opto Foot Control

Single Control → Coax Cable → Coax Converter → PCIPromptCard. (NB 1st Coax Converter built into foot control)

#### **MULTIPLE CONTROL INPUT**

Connection from Hand/Foot control, to four input Coax Combination Box. Coax Conversion is included in the Combi Box and Coax Converters are not required at the PCIPromptCard.

#### **UP TO 4000 FEET (1300 METRES) WITHOUT BOOST LOCAL PSU REQUIRED**

Single Opto Hand Control → 232/422 Converter → 422/232 Converter → PCIPromptCard.

Single Opto Foot Control → 232/422 Converter → 422/232 Converter → PCPPromptCard.

#### **MULTIPLE CONTROL INPUT**

#### **FIBRE OPTIC LINK LOCAL PSU REQUIRED**

Single Opto Hand Control → 232/422 Converter → Fibre Optic Converter → Fibre Optic Converter → 232/422 Converter → Coax Converter → PCIPromptCard.

Single Opto Foot Control - Coax Converter → 232/422 Converter → Fibre Optic Converter → Fibre Optic Converter → 422/323 Converter → Coax

Converter → PCIPromptCard.

# SCHEMATICS

