

## Software Handbook

# CAT5 Video, Stereo Audio, RS232 and IR

## UXGA, Component HD, RGB, S-Video and Composite

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Dear customer...

Thank you for purchasing this product which has been designed to give you many years of trouble-free service.

You may already be familiar with using similar product, but do please take time to read these instructions – they are written to ensure you get the very best from your purchase.

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### Safety is Important

To ensure your safety and the safety of others, please read the safety instructions before you operate this product.

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## Introduction

The PRO-9000 is factory set to provide eight VGA inputs switched to eight viewing positions using either the [PRO-0201] infrared handset or server software. This handbook will help guide you through the setup procedures ensuring the configuration of the inputs and outputs suite your installation. The system can be configured to accept various video inputs from composite video to UXGA computer video. The eight video inputs will be defined during the initial setup.

When operating with [PRO-9001] receivers the software also provides test patterns for automatic cable compensation and video delay, also known as skew. The auto functions can also be carried out using the push button switch located on the PRO-9000 front panel, see hardware manual for instructions on setting up the system without software. When operating with [PRO-9701] receivers the auto functions are disabled. These adjustments should be carried out at the receiving end using the rotary switches provided.

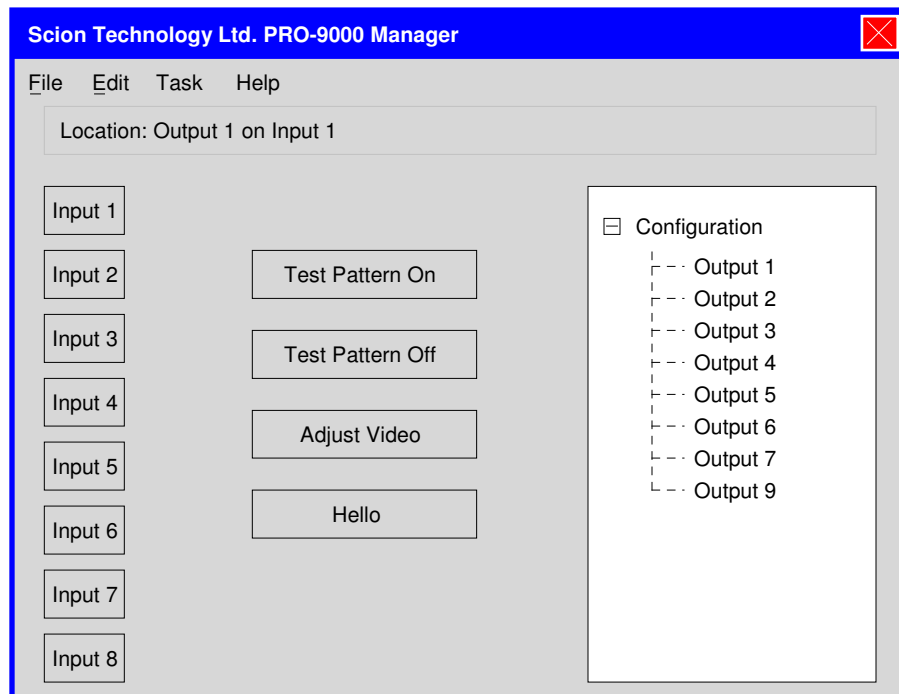
Data control of the screens is available via RS232 when using the [PRO-9001] receivers. This function is also setup using the server software. There are a number of pre-installed protocols for controlling displays, however due the large number of screen manufactures not all are catered for. Should your make and model of screen not be available, please contact a member of our sales team who will be please to assist in obtaining the correct file. Once setup the PRO-9000 will be able to send the appropriate command to the screen when a particular input is selected. This function provides a seamless switch between different video signals by telling the screen to follow the input selected.

## Installation your PRO-9000 Software

1. Insert the PRO-9000 INSTALLATION CD-ROM into your CD-ROM drive.
3. In the Windows® taskbar, click **Start**.
3. Select **Run**.
4. Type the following:  
D:\SETUP.EXE  
If **D** is not your CD-ROM drive, substitute **D** with the correct drive letter.
5. Follow the wizards on-screen instructions to complete your installation.

During the installation you will be prompted to install a driver

1. Click the **Install Button**
2. When the installation is complete, connect the USB cable to the PRO-9000. The “found new hardware” wizard will appear.
3. When asked to allow Windows® to search on the web for the drivers, select “**not this time**”
4. In the next dialogue box select “Install Automatically”
5. You will get a number of warnings stating that the drivers are not digitally signed or have not passed Windows® logo test. Click “continue”.
6. You will than see a second “found new hardware” wizard. Make the same selections as before.
7. You are now ready to run the PRO-9000 Manager Software.
8. In the Edit Menu click on preferences to select you required port to use.

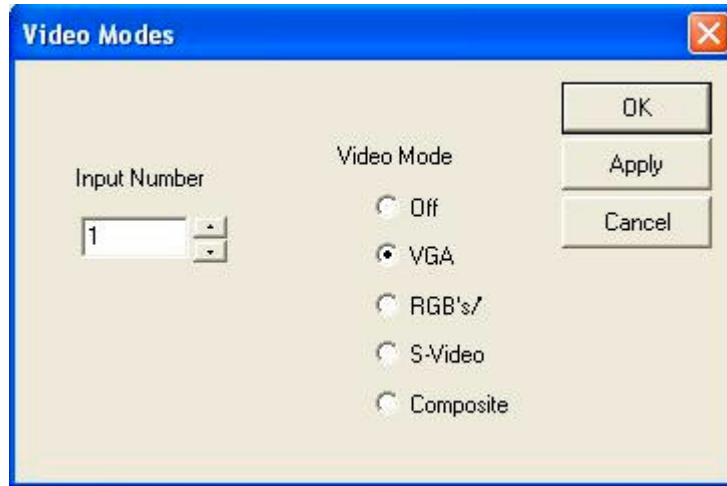


### Define Input Modes

Input modes should be set according to the type of video signal you have in each port on the rear of the unit. For example:

- Video input 1 = UXGA Computer Video
- Video input 2 = S-Video – DVD Player
- Video input 3 = RGB – Satellite Decoder

This configuration should be set as follows:



From the main screen click on “Edit” then “Define Input Modes”

1. Select input number 1 and click on **VGA** followed by **Apply**
2. Select input number 2 and click on **S-Video** followed by **Apply**
3. Select input number 3 and click on **RGB** followed by **Apply**

When all the input modes have been defined click “OK” to return to the main screen.

These selections operate selective video amplifiers and sync detection circuits within the PRO-9000 and PRO-9001. When selecting inputs, the PRO-9001 receiver will output the video signal on the appropriate connector.

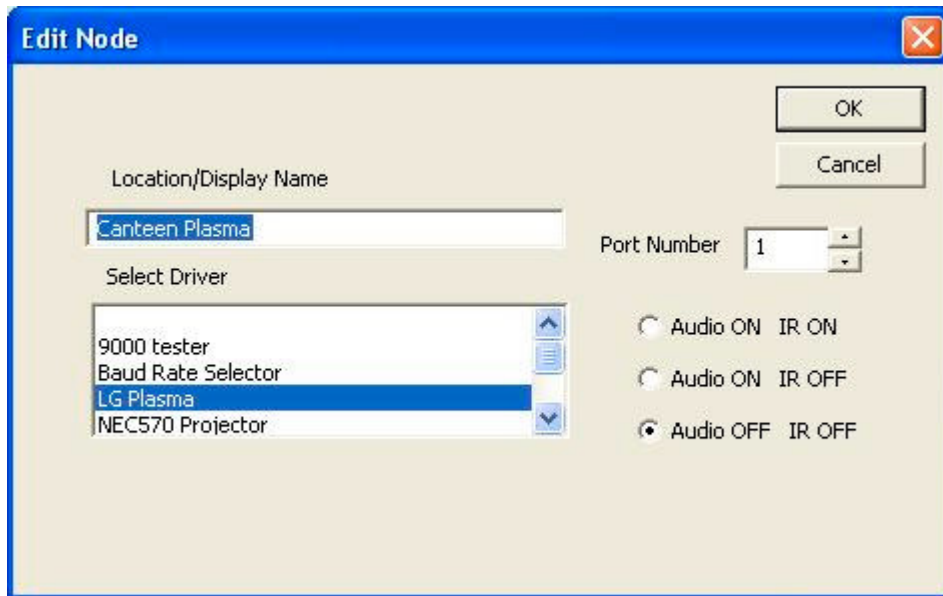
**Edit Nodes**

Output nodes can be changed according to the type of receiver and display attached to each port. The PRO-9000 needs to know whether a PRO-9001 receiver or PRO-9701 receiver is connected to each port. If the display is being controlled by the PRO-9001 RS232 port a driver will also be assigned for the make and model of display used on each port. For more information on drivers, see assigning device drivers.

When setting up your output ports you will need to know which receiver you have on each port. This is necessary because the PRO-9701 has no IR facility and therefore will generate data interference if left switch on. It is also capable of driving longer distances of CAT5 cable if the audio data is turned off.

- Audio ON IR ON = PRO-9001 only
- Audio ON IR OFF = PRO-9001 and PRO-9701
- Audio OFF IR OFF = PRO-9001 and PRO-9701

For example:



The example above shows port one connected to an LG Plasma screen located in the canteen area. It also defines a PRO-9701 attached to the screen with no audio and no IR services. As the driver for the screen is installed the screen will change its input source every time different video input is selected.

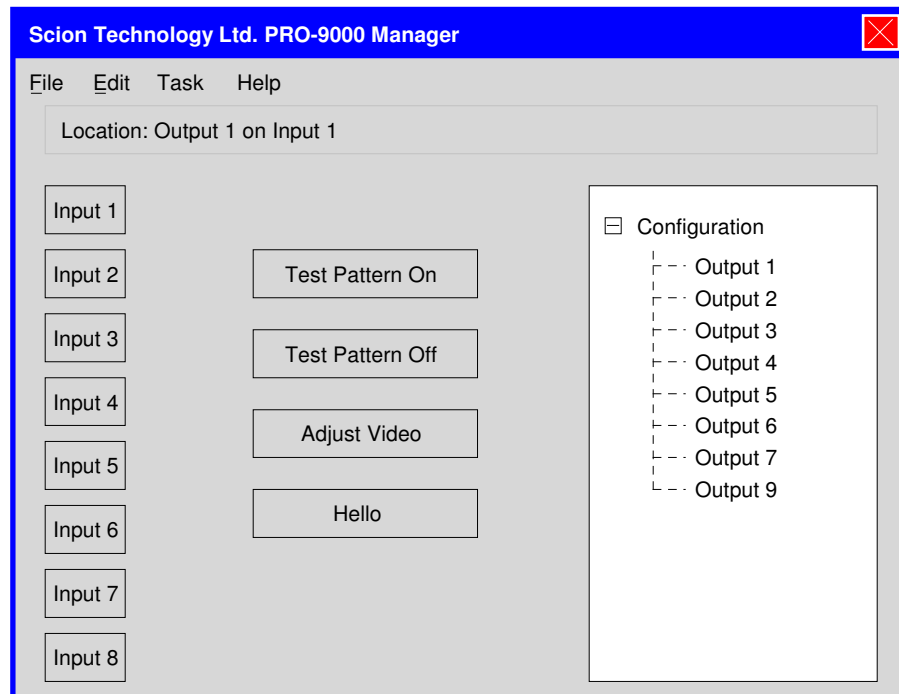
From the main screen click on **“Edit”** then **“Edit Node”**

1. Select port number 1
2. Select the appropriate driver for this port
3. Type the name of the screen location in the **Location/Display Name** dialogue box
4. Click on the appropriate Audio / IR function required.

Repeat this operation for all 8 outputs.

### Setting up PRO-9001 Cable Length and Skew

When the PRO-9000 is used with the PRO-9001 receiver, each port has the ability to automatically set the receiver for cable length and skew. This option is only available in the PRO-9001. However, the test pattern feature can be used with the PRO-9701 when installing your system. It will provide you with a known VGA signal while setting up screens and receivers.



From the main menu click on “Test Pattern On” to activate the test pattern. This will over-ride all the video inputs and display a pure white line vertically on every screen. Once activated click “Adjust Video” to set up all eight screens at the same time. After 10 seconds the test pattern may be turned off. Your receivers are now fully optimised for the best possible video quality.

For CAT5 cable distances over 200m the automatic setup procedure may not function from the PRO-9000. This is due to standard data transfer distances over CAT5 cabling systems. When this occurs you will need to switch on the test pattern and use the small setup switch located on each receiver for local setup. This carries out the same operation, only locally. See the hardware manual for further information on the PRO-9001 receiver.

**Troubleshooting**

<b>Problem</b>	<b>Remedy</b>
A dialogue box appears “Cant find Control Unit. Continue Anyway?”	Check USB or RS232 cable connection between the PRO-9000 and your computer
No video or Audio on all ports. The power LED’s are illuminated and appears to function as normal	Check “Video Modes” to make sure the correct software mode is selected for the video input source. See page 5
Test pattern turns on but the PRO-9001 does not carry out auto setup when the Adjust Video button is depressed	The cable length is greater than 200m. Refer to page 7. Setting up PRO-9001 receiver
Audio has data interference when using the PRO-9701 receiver	Check the “Audio ON IR OFF” check box is selected in the “Edit Node” dialogue box
The IR function on the PRO-9001 does not function	Check the “Audio ON IR ON” check box is selected in the “Edit Node” dialogue box. Also check that the cable length does not exceed 200m
Audio has data interference when using the PRO-9001 receiver	Make sure cable distance does not exceed 200m