

**datavideo**<sup>®</sup>

**The Commercial CD Media Presenter**

# CP-100 PRO

## INSTRUCTION MANUAL



<http://www.datavideo-tek.com>

## **The Important Notice of Safety Instruction and Radio & TV Interference**

1. Read all of these instructions and save them for later reference.
2. Follow all warnings and instructions marked on the products.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
6. Slots and openings on the cabinet and the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, do not block or cover these openings. The openings should never be blocked by placing the products on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your dealer or local Power Company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be walked on.
9. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord to not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. Except as explained elsewhere in this guide, don't attempt to service this product yourself. Opening and removing those covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks. Refer all servicing on those compartments to service personnel.
12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - A. When the power cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the product.
  - C. If the product has been exposed to rain or water.
  - D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

- E. If the product has been dropped or the cabinet has been damaged.
- F. If the product exhibits a distinct change in performance, indicating a need for service.

## **Service, Support and Warranty**

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site [www.datavideo-tek.com](http://www.datavideo-tek.com) for answers to common questions, support requests or contact your local office below.

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## ***Product Support***

For information or assistance with the setup, operation, troubleshooting, or repair of your system, you may first wish to call the dealer from whom you purchased.

## RADIO & TELEVISION INTERFERENCE UNITED STATES

The equipment described in this guide generates and uses radio frequency energy. If it is not installed and used in accordance with the instructions in this guide, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If necessary, you should consult your dealer or experienced radio/television technician for additional suggestions. You may find helpful the following booklet, prepared by the Federal Communications Commission: How to Identify and Resolve Radio-TV Interference Problems. This booklet is available from the United States Government printing office, Washington, D.C. 20402. The booklet number is 004-000-00345-4.

**Note:** Changes or Modifications not expressly approved by the party responsible for compliance could void the users right to operate this equipment.

Peripheral used in conjunction with this equipment must be connected via shielded interface cables. Use of unshielded interface cables may result in interference to radio and TV reception, and may void the user's right to operate this equipment.



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## Introduction

Using inexpensive recordable CD's (CD-R's) you may play up to 99 tracks of a video CD or you may present up to nineteen tracks of full motion video and a 'video attract loop' that plays continuously until another track is selected. The selected track plays only one time, then the system returns to play the attract loop until another switch is pressed.

CP-100 PRO replaces existing VHS or laser disc presentation hardware solutions. Compared to DVD menu driven players, it is easier to work with and has a lower media cost.

CP-100 PRO is a stand-alone unit with a built in standard IDE-CD-ROM, that can be exchanged to DVD-ROM to playback standard DVD's. The unit is compact in size and is easy to install. It is especially designed for commercial and educational uses for high quality video and audio.

**If you do change the drives from CD to DVD, not all of the remote functions will work the same way and the unit may require a firmware update. Please contact your local Datavideo office to discuss your requirements.**

## Typical Applications:

**Trade shows** – video presentations with simple or sophisticated interfaces.

**Hotels** – A low cost solution to assist the maitre'd in telling about nearby attractions, restaurants, transportation, theaters, etc.

**Schools** – Student productions and presentations

**Museums** – kiosks, exhibits, etc. Get more communication value for your budget. Messages can be changed for the cost of changing the video and a 30-cent recordable CD. You can use motion sensors, floor pressure switches, broken light beam switches, etc., to begin a selected track.

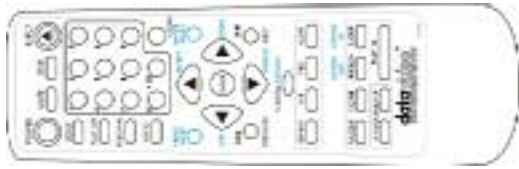
**Corporate** – Segment your benefits program and have employees watch the information that they must have.

**Realtors** – Make an attract loop that sells your company and then select video tours of the most likely properties. Give the prospect the CP-100 PRO and let them watch it at home with the family.

**Medical** – Non-invasive video recordings traditionally stored on VHS may be created on inexpensive recordable CD's. The CP-100 PRO is an excellent review station.

## Accessories Supplied

Infrared Remote Control Handset



2 x "AAA" Batteries for the Handset



Power Supply



Power Cord



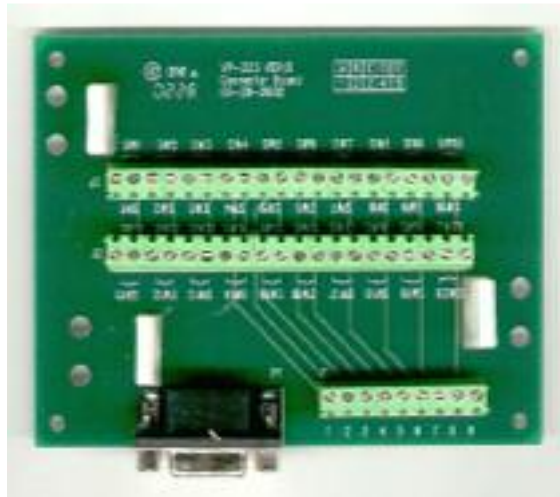
3 Phono (RCA) to 3 Phono (RCA) Audio/Video Cable



## Additional Accessories for Remote control Adaptor

With the optional Momentary Contact Switch Card, all you do is connect switches and a 9-pin cable to the Remote Adaptor (RMC-60).

**Momentary Contact Switch Card for connecting up to 20-switches for your own Kiosk interface**



**Kiosk Remote Adapter (RMC-60)**

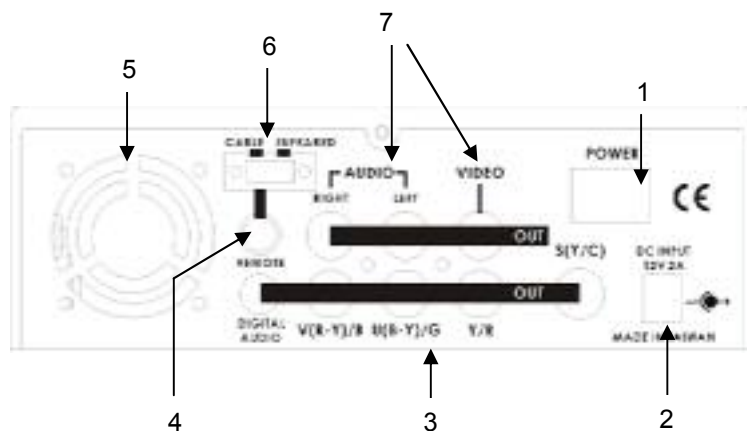


**D-Sub 9-Pin to 9-Pin cable for connecting Momentary Contact Switch Card to the Remote Adaptor (RMC-60)**





## Rear Panel



### 1. Power Switch

To switch the power on and off

### 2. Main DC Power Cord connecting socket

To connect to the main AC power adaptor

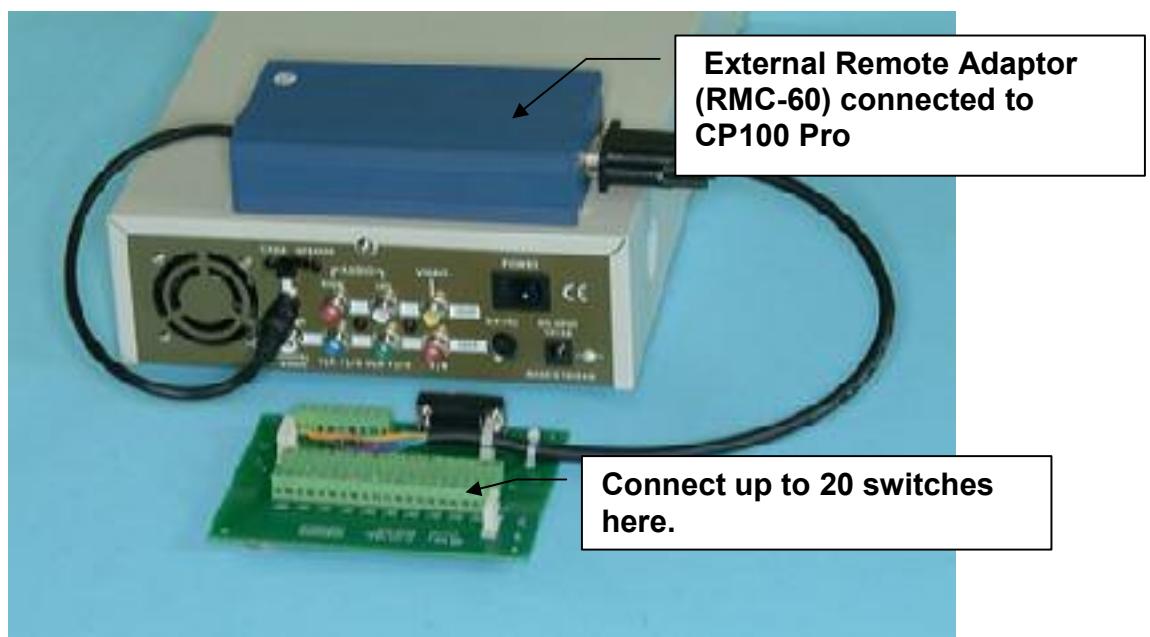
### 3. Component Video Output

Component Y.U.V. or R.G.B.video signal output.

Although there are multiple outputs you can only use one output at a time. If you use more than one simultaneously the output signal level will be reduced.

### 4. External Switch Remote Interface

Connect an external Datavideo Remote Adaptor (RMC-60). Support up to 20-switches for your own Kiosk interface



## 5. Fan

For proper cooling allow at least 4 inches /10 cm of clear space behind the exhaust fan of the CP-100 PRO

## 6. Switch to select Cable or Infrared Remote control

Switch to select control mode

- . Infrared Mode: Enable the Infrared remote control Handset and disable the cable control of RMC-60

- . Cable mode: Enable the cable control mode to control RMC-60 for Kiosk Keyboard Interface.

## 7. Audio and Video Outputs

To connect left and right audio and composite or S-Video signals to a TV/Monitor

## Front Panel



### 1. Remote

Infrared receiver, for control codes from the remote

### 2. Power LED

Power indicator, LED lights up when power is ON

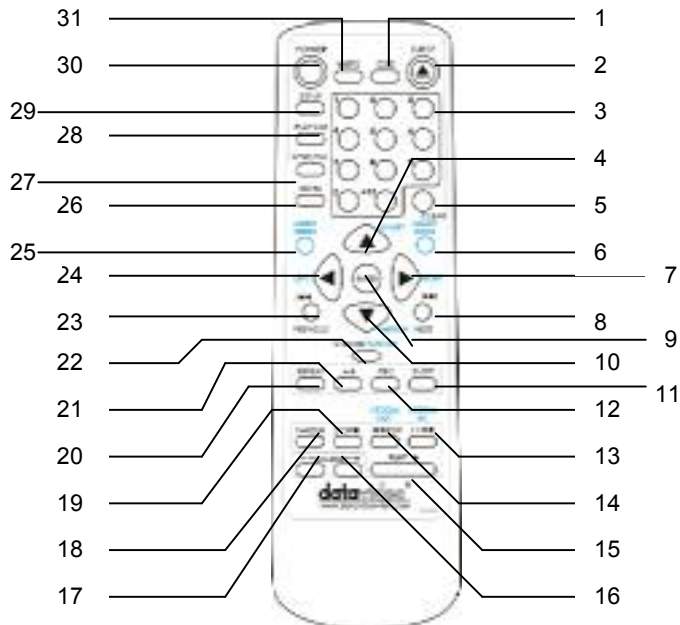
### 3. Eject Button


To Open the CD Tray for loading or removing a CD

### 4. CD Tray


To load one disc into the unit


## Infrared Remote Control Handset




**1. OSD (On Screen Display) Button**   
On screen display, manually activates the display on/off

**2. Eject Button**   
Activates the CD tray to open and close

**3. Numerical Keypad**   
Selects specific tracks on a disk

**4. UP Arrow Key**   
Navigates "Up" on screen menu items

**5. Clear Button**   
Clears entries from the user programmable Play List

**6. Image Index**   
To search the JPEG image disc and displays up to 9 small images on the TV screen for quick preview. Press the "Next" key to display the Next 9 images

**7. Right arrow Key** 

Navigates "Right" on screen menu items

**8. Next Button** 

Skips forward to the next track during playback or navigates "down" on the screen menu items

**9. ENTER Button** 

Confirm the selected function

**10. Down arrow Key** 

Navigates Down on screen menu options

**11. Slow Button** 

To playback video in slow motion

**12. PBC Button (Playback Control)** 

Offers main manual and playback control options for commercially produced VCD's

**13. F.F. Button** 


Picture search forward through a track. Several speeds are available. Each press of the button will increase the speed

**14. REW Button** 

Picture search backwards through a track. Several speeds are available. Each press of the button will increase the speed

**15. Play Button** 

Starts the disk playing


**16,17 Volume Buttons ( + & -)** 


Adjusts the volume higher and lower


**18. Pause Button** 

Pauses the disk during playback


**19. STOP Button**   
Stops the disk during playback


**20. Repeat Button**   
Offers repeat playback options. Press once to repeat a single track, twice to repeat the entire disk or three times to turn the repeat function off


**21. A/B Repeat Button**   
Marks start and stop points within a track for repeat play

**22. Zoom Button** Zoom and out of video image.   
Zoom is a great feature on the CP-100 PRO. It allows you to magnify the image by hitting zoom on remote. Hit once for 1X, twice for 2X up to 8X although 8X is not very sharp. While enlarged, the image can be panned using the arrows. This feature is only on the CP-100 PRO, not the VDR- recorders.

**23. Previous Button**   
To skip back to the previous track during playback

**24. Left Arrow Key**   
Setup Mode: Navigates left on screen menu options  
Operation Mode: **JUMP TIME backward playback**  
Every press on the left arrow key will go back a pre selected time increment that is stored at set up. (1,3,5,7 second selectable).

**25. Video Index**   
To search all the programs on the video disc and will auto playback about 10 sec video for each video program as preview function

**26. GO TO Button**   
Changes the counter display from position in the track to the time that was selected

**27. NTSC/PAL Button**   
Switch the output video for NTSC or PAL

**28. Play List Button** 


Calls up a user programmable Play List of up to 12 tracks

**29. Setup Button** 

System configuration for "PAL / NTSC, video/audio output format, etc.

**30. Power Button** 

To switch the unit from ON to Standby mode or vice versa

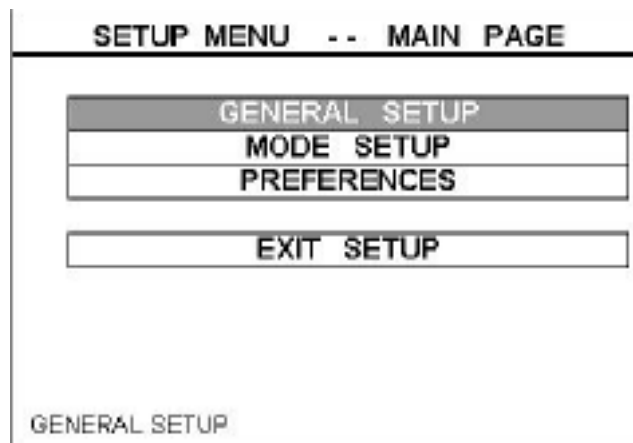
**31. Mute Button** to mute the volume during playback 

## System Setup

### GENERAL SETUP

Press on the “Setup” Button of Remote controller.

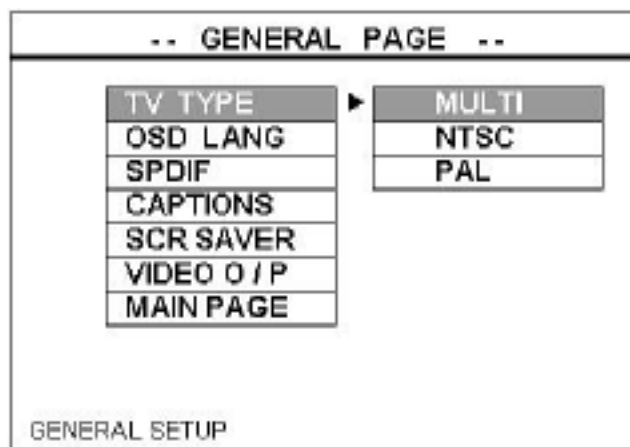
There will pop up system General setup on TV screen, select the General setup to find more system configuration.



### TV TYPE

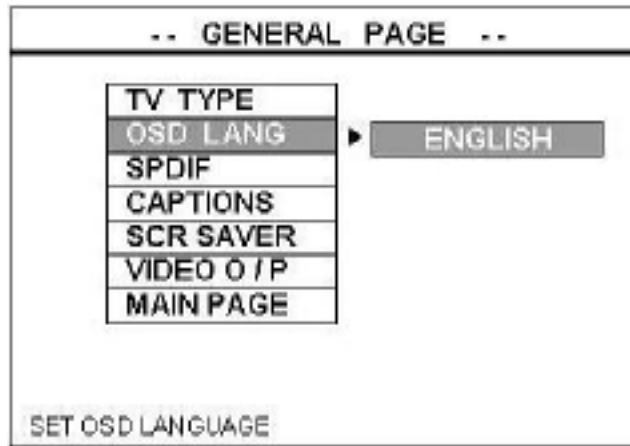
Multi ---- Auto-detect the disc video system and output video NTSC/PAL accordingly

- NTSC -- Output NTSC video
- PAL ----- Output PAL Video



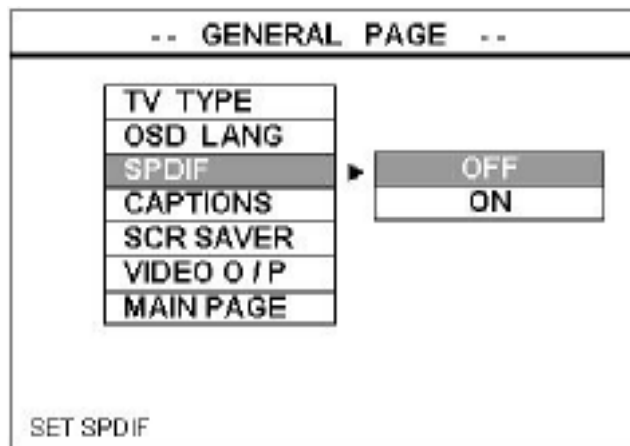
## OSD LANG

Select the "English" mode on screen display



## SPDIF

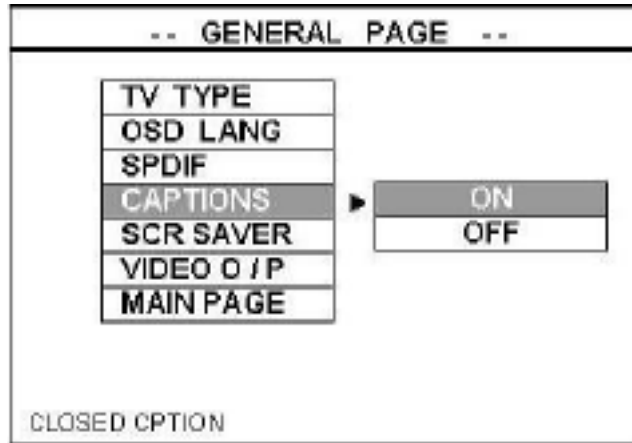
- OFF --- Disable the digital audio output, Output Stereo Audio
- ON ---- Enable the digital audio output, **Disable Stereo Audio out**





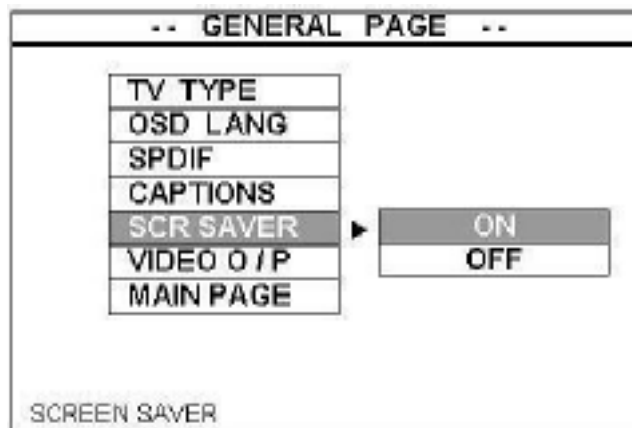
## CAPTIONS

- ON: Enable Close Caption output
- OFF: Disable Close Caption output



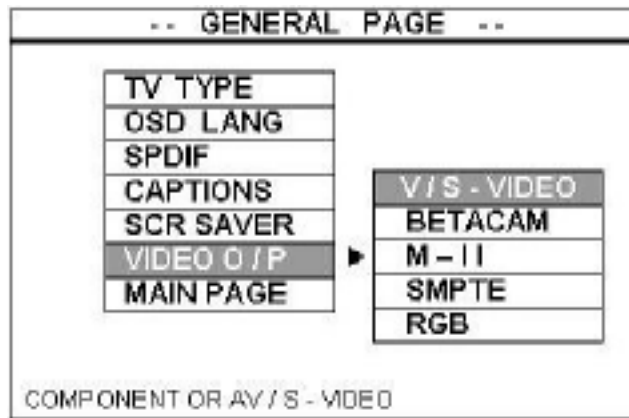
## SCR SAVER

SCREEN SAVER: No Function on this item



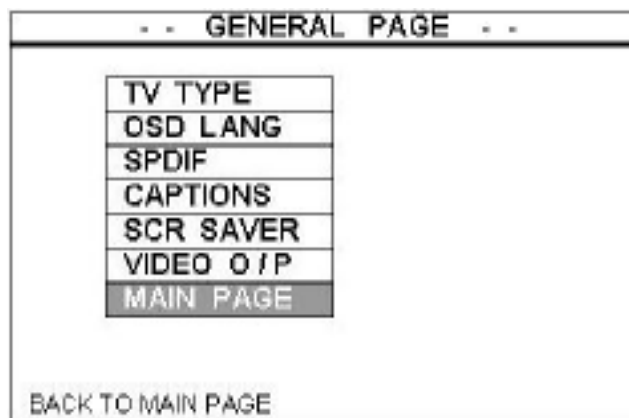
## VIDEO O/P

- **V/S Video:** Select S-Video and Composite video output
- **BETACAM:** Select component YUV O/P and **disable V/S output**
- **M-II:** Select M-II video O/P and **disable V/S output**
- **SMPTE:** Select SMPTE Video O/P and **disable V/S output**
- **RGB:** Select RGB video O/P and **disable V/S output**



## MAIN PAGE

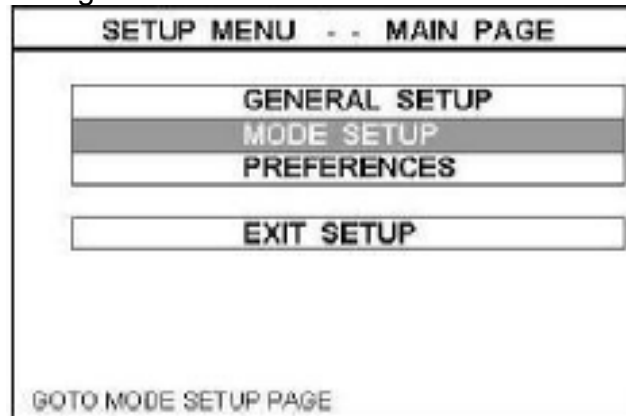
Return to the main page of setup screen,  
Press on the "Setup" button of remote controller to go back to normal operation



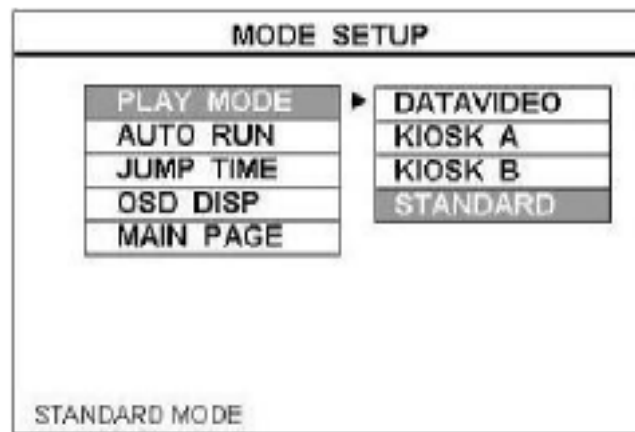
## MODE SETUP

Press on the “Setup” Button of Remote controller.

There will pop up system setup menu on TV screen, select the MODE Setup to find more system configuration.



## PLAY MODE



**DATAVIDEO MODE:** Repeat Playback tracks.

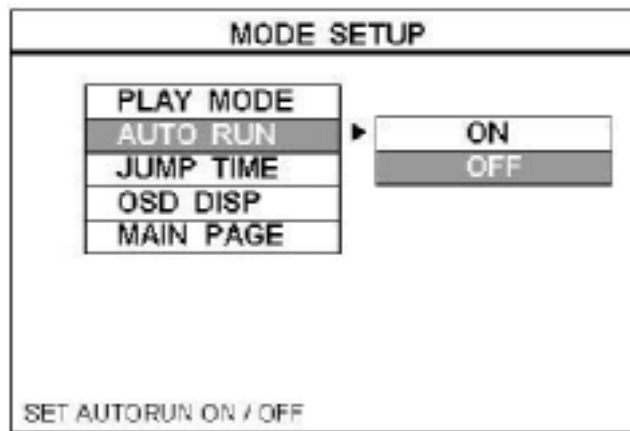
Play track one repeatedly (as manual track) until pushing a button (or GPI) and then play track two. When track two is done, play track one repeatedly until pushing another button and so on.

**KIOSK MODE A:** The important features of this mode is that while the second track is playing, the key pad is “locked out” until the selected track has finished playing, at which time the key pad is then free to accept new input.

**KIOSK MODE B:** Operation as KIOSK A but can be interrupted playback other track by pushing another button

**STANDARD MODE:** Operation as regular VCD Player.

## AUTO RUN




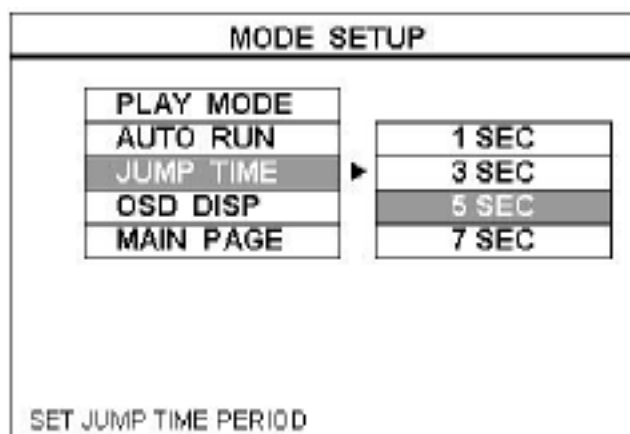
**ON** Disk in tray will auto play after system power on.

**OFF** Disk in tray will not auto play after system power on.

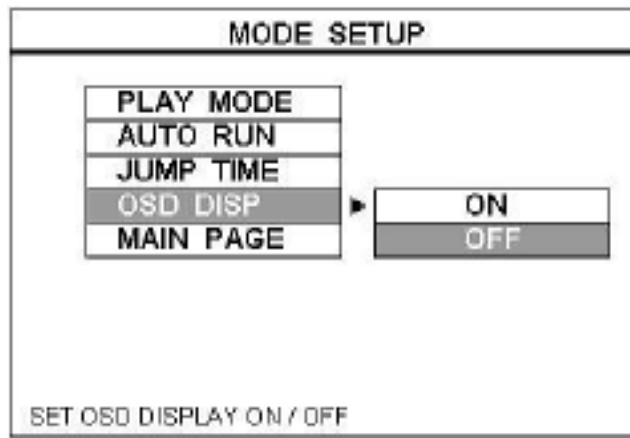
## JUMP TIME

JUMP TIME backward playback 1, 3, 5, 7 SEC

**Note:** Under disk playback mode, press on the **Left Arrow Key**  This is the set up function that allows every press on the left arrow key will go back a pre selected time increment.



## OSD DISP

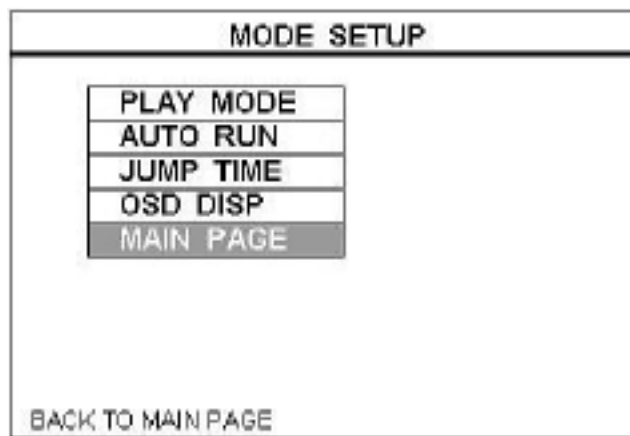


**ON** Enable on screen display.

**OFF** Disable on screen display.

## MAIN PAGE

Return to the main page of setup screen,  
Press on the "Setup" button of remote controller to go back to normal operation



## Operation

### Switching on

Once all cables connected and in place, switch on the TV Monitor and select the correct A/V channel and then turn on the power switch on the rear panel of CP-100 PRO.

If it's already on standby status then press the Power Button on the remote control handset, The CP-100 PRO start up will appear a blue screen on TV.

### Playing a disk

Press the Eject Button on the front of the CP-100 PRO or on the remote control handset and the CD tray will slide open.

The CP-100 PRO will accept Audio CD, VCD, HQ-VCD, S-VCD, DVD-Photo or **cdDVD** formats

Place the disk that you want to load onto the tray, printed side facing up.

Press the Eject Button and the CD tray will close. After a few seconds the CP-100 PRO will begin playing the disc automatically.

***Note: The CP-100 PRO will playback and repeat the first track until you press the "Next" key on the remote control handset. To playback the next track press the next key. To repeat the entire CD, Press the "repeat" key on handset to "Repeat All" tracks.***

To play a specific track, select the track number from the numeric keypad on the remote control handset. Example

Press 02 then enter. The Number two represents track 2.

To skip forward to the next track, press the Next Button on the remote control handset

To return to the previous track, press the Previous Button on the remote control handset

If you wish to search through a track during playback you can press the F.F. Button. There are several speeds available and each time the F.F. Button is pressed a faster speed is selected.

To search back through a track, press the REW Button. There are several speeds available and each time the REW Button is pressed a faster speed is selected.

To pause a track during playback, press the Pause Button. This will stop the playback and a still image of the frame will be held on the TV Monitor (video disk only). You can move forward one frame at a time by pressing the STP (STEP) Button. To release the pause and return to normal playback press the Play Button.

To stop playback press the Stop Button.

To mute the sound of a track during playback presses the Mute Button. To cancel the mute function press the Mute Button a second time.

To remove the disk press the Eject Button, the CD tray will slide open. Remove the disk and press the Eject Button again to close the CD tray.

## CONNECTIONS

### Connecting to a TV Monitor

**NOTE:** Before making any connections please ensure that the CP-100 PRO and all devices that you are connecting to are switched off.

The CP-100 PRO should be connected to the video and audio inputs of a TV Monitor. The TV Monitor may have a European Interface SCART socket, PHONO (RCA) sockets or S-Video socket.



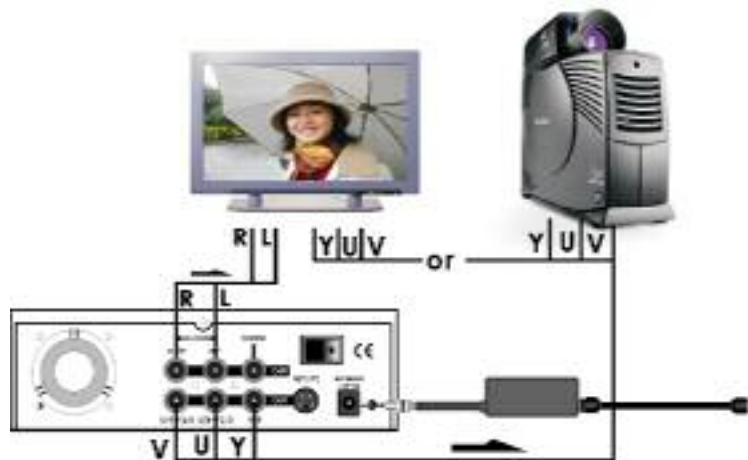
To connect to a SCART input, a three phono (RCA) plug (Left and Right Audio plus Composite Video) to SCART Plug cable will be required.

S-Video offers the best image quality. However, the S-video cable does not carry an audio signal, so a L+R audio cable (RCA) connection is also necessary.

## Connecting to a Video Projector or TV / Monitor with Component Video

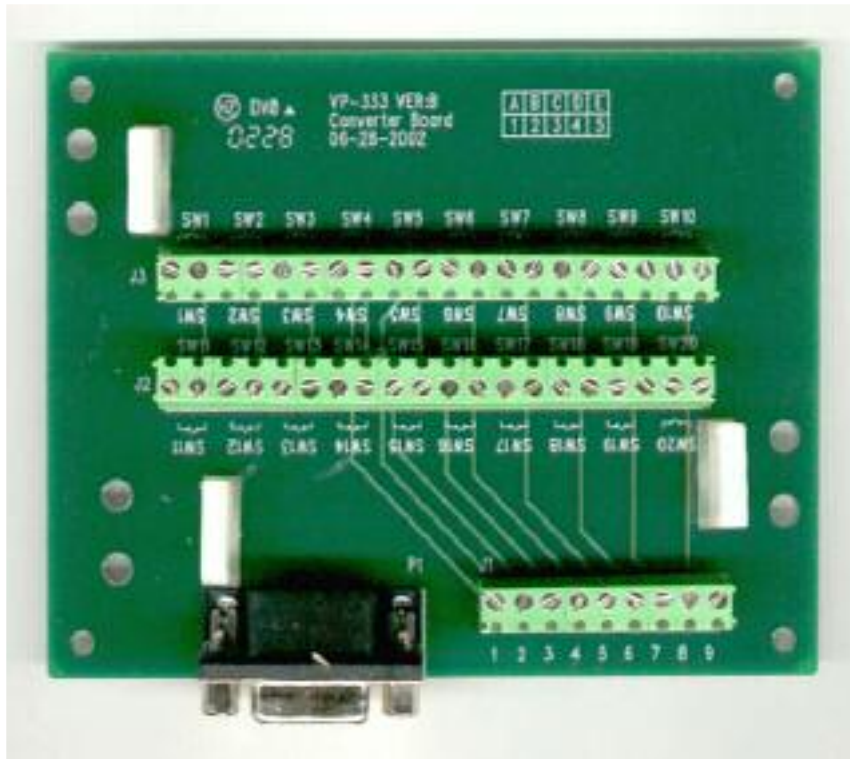
**NOTE:** Before making any connections please ensure that the CP-100 PRO and all devices that you are connecting to are switched off.

The CP-100 PRO should be connected to the component R.G.B. or Y.U.V. video and audio inputs of a Projector or TV / Monitor.





## Momentary Contact Switch Card



The beauty of the card is that it makes the switch wiring simple if you are building a push button controlled, multi track video kiosk or display.

As an exhibit builder your focus is on the message not wiring switches.

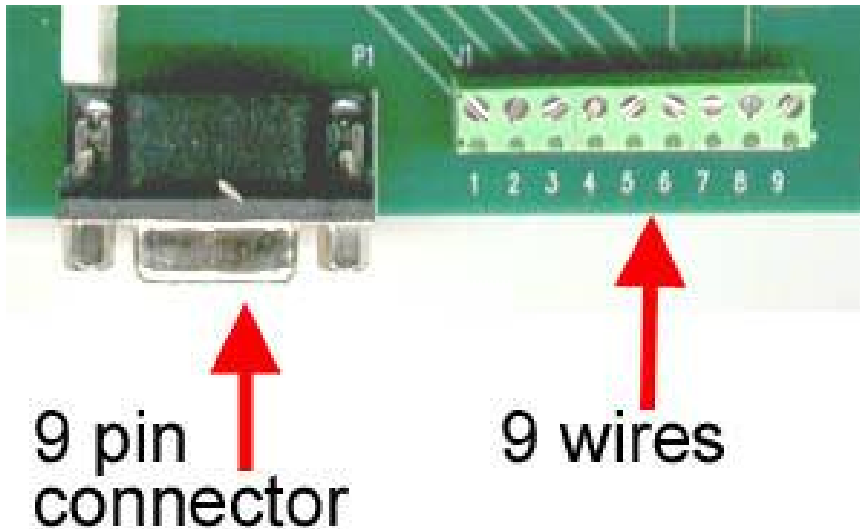
This card uses convenient screw terminals to connect any kind of SPST contact switches in a simple, logical manner so you can spend your time selecting beautiful switches, engraving buttons or panels and integrating them into the display. Should a switch ever fail, you can change two wires by loosening two screws.

The card also has a DB9 connector. You can use nine pin male to male cables and connectors.

## Installing the Momentary Contact Switch Card

Mount the card so it is convenient for access. It has no active components. Heat is not a factor.

After you have selected your switches and where they will be mounted, run two wires from each switch to the appropriate positions on the green card.

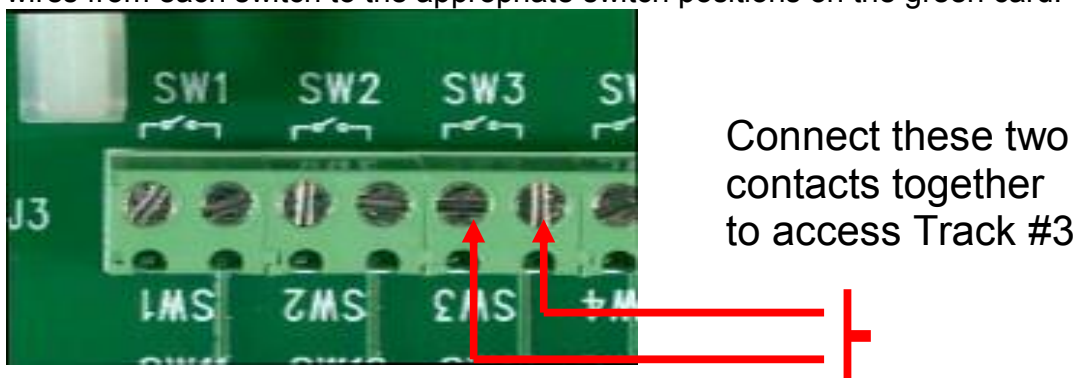


You may connect either a 9-pin connector or nine wires.

**Note:** that the MENU position on the card is really for track one (the repeating track – attract loop) on the CD. This switch would be used when someone wants to exit the selected track and return to the menu track or the attract loop.

The other switches go to tracks 2 through track 20.

After you have selected your switches and where they will be mounted, run two wires from each switch to the appropriate switch positions on the green card.



**Key Matrix:**

**CP-100Pro Control Box D-SUB Pin Definition:**

| Switch 1-10       | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Connect D-Sub Pin | 1 & 5 | 1 & 6 | 1 & 7 | 1 & 8 | 1 & 9 | 2 & 5 | 2 & 6 | 2 & 7 | 2 & 8 | 2 & 9 |

| Switch 11 to 20   | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Connect D-Sub Pin | 3 & 5 | 3 & 6 | 3 & 7 | 3 & 8 | 3 & 9 | 4 & 5 | 4 & 6 | 4 & 7 | 4 & 8 | 4 & 9 |

**FEATURE SUMMARY** of the CP100 PRO and the wireless REMOTE Control

OSD (On Screen Display on/off) , Eject, Track Select, Up, Down, Clear, Image, Right, Next, Enter, Slow, Fast Forward, Rewind, Play, Volume up/down, Pause, Stop, Repeat, Repeat a segment of one track, Zoom, Previous, Video Index, NTSC/PAL, Play List, Setup, Power, Mute

Typical applications:

**FEATURE SUMMARY** using the DB-9 Connector

Play track one repeatedly (as an attract loop) until any one of nineteen buttons are pushed. When that track is done, return to the attract loop.  
If another button is pushed before the track is completed, switch to the most recently selected track.

Enable/disable OSD display (OSD always on during system setup.)

Disable auto-play function selectable.  
Frame-by-Frame playback.

Typical applications: Kiosk Playback

## Specifications :

- Playback Disc A/V Format *cdDVD/DVD-Photo/SVCD/HQ-VCD/VCD/Audio CD*
- Playback Disc Type CD-R, CD-R/W 650MB
- Video format CCIR601 NTSC and PAL
- *cdDVD* NTSC 704x480 at 30fps
- MPEG-II Format PAL 704x576 at 25fps  
Bit rate at 4.8Mb/sec
- DVD-Photo NTSC 704x480 at 30fps
- MPEG-II Format PAL 704x576 at 25fps  
Bit rate at 2.4Mb/sec
- S-VCD video resolution NTSC 480x480 at 30fps
- MPEG-II Format PAL 480x576 at 25fps  
Bit rate at 2.6Mb/sec
- HQ-VCD video resolution NTSC 352x240 at 30fps
- MPEG-I Format PAL 352 x288 at 25fps  
Bit rate at 2.4Mb/sec
- VCD video resolution NTSC 352x240 at 30fps
- MPEG-I Format PAL 352 x288 at 25fps  
Bit rate at 1.15Mb/sec
- Video Outputs: Y/C (S-Video) mini DIN  
Composite Video (RCA)  
Y.U.V./R.G.B. (RCA)
- Audio Outputs: Stereo RCA 20Hz – 18KHz
- Power supply 90-240VAC, 50/60Hz to DC 12V 24W
- Dimensions Height = 67mm / 2.7"  
Width = 190mm / 7.5"  
Length = 330mm / 13"
- Weight 2.5Kgs (5.5lbs)

## Q & A

### **Q: How do you make CD's for the CP-100 PRO?**

**A:** The simplest way is to use the Datavideo VDR-3000 as a recorder for your already produced video tracks. Just record your tracks one after the other and you're done.

Of course you may use a computer with a CD burner and software that creates Video CD's.

If you don't own a VDR-3000 they are available for rental or purchase from Datavideo or through many of our dealers.

### **Q: How does all of this compare to making and using DVD's in a display situation?**

**A:**

|                       | CP-100 PRO                                | DVD's  |
|-----------------------|---|--|
| Media Cost            | Less than 50 cents                        | More than 50 cents   |
| Production Cost       | Video production, no programming          | Video production and programming   |
| Levels of programming | Just the switches –up to nineteen tracks  | multiple   |
| Creative opportunity  | Display and the program and just buttons. | Program only. The display needs a sophisticated control panel or a touch screen. |
| Remote Control        | Simple, inexpensive                       | Not simple, not inexpensive  |

### **Q: How do I turn off/on the (OSD) On Screen Display?**

**A:** Via the hand held remote. The CP-100 PRO has a set up memory. You will need the remote to turn it on again.

### **Q: Must I use Datavideo's VDR-3000 when making CD-s for the CP-100 PRO?**

**A:** No...But here are three good reasons why you should consider using it.

(1) The VDR-3000 is a stand alone system that automatically encodes incoming video and burns a CD without tying up your computer or risking system failures if you chose to do something else (like check your e-mail) with an internal CD burner.

(2) Every CD made on the VDR-3000 includes an auto run file that will let it play back on your pc, without having to manually turn on the Microsoft viewers.

(3) The CD-DVD format is easily available on the VDR-3000. This format is equal to the average compression rate of a DVD.

**Q:** What happens if we're watching one track and we push another button?

**A:** The system goes to the track selected by the most recent button push (contact closure).

**Q:** Does the CP-100 PRO remember the set up configuration?

**A:** Yes. It remembers the last setup change as the next boot default.

**Q:** Can I replace the CD drive myself?

**A:** You can replace it with another CD drive and retain the control features through the DB-9 connector. You may also replace the drive with a DVD player drive but you might not have the remote control features.

**Q:** Does the CP-100 PRO remember the set up configuration?

**A:** Yes. It remembers the last setup change as the next boot default.

**Q:** How much information can we present?

**A:** Please see chart below.

| <b>FORMAT</b>                            | <b>MAX 650MB</b> | <b>QUALITY</b>  |
|--|------------------|---|
| S-VCD<br>(Standard format)               | 40 min           | 352 x576 @25fps<br>Bit rate 2.2mb/sec<br>M-PEG2 Compression   |
| CD-DVD<br>(Datavideo format)<br>VDR-3000 | 18 min           | 704 x 576 @25fps<br>Bit rate 4.8 mb/sec<br>M-PEG2 Compression |

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