Documentation for DVD1L Version 1.8
for the Technovision KPC2

Hardware Requirements

- KPC-2 Controller with DVD1L flash programmed into the unit.
- Pioneer DVD-V5000 or DVD-V7400 DVD player(s) set for **9600** baud and POWER ON START set to T01:C01 (see page 2)
- **The DVD-V5000 MUST be changed from its default of 19,200 to 9600 baud.**
- KPC4DVD 4-player control cable and DVDEXT cables for additional players.
- If using a single player you will need a KPCDVD control cable.

Instructions on installing a controller and player

1. **Make sure power to the player(s) and controller is disconnected before installation.**
2. On the controller you must insert the DVD control cable into the DB9 MALE connector.
3. **Cable #1 MUST be connected to player #1 - the entire sequence is cued to player #1.**
4. Now, plug in the players and insert the discs into the tray.
5. Plug in the power supply to the controller.
6. The controller will now start-up the players and will begin playing Chapter 1. If the player does not start-up then confirm that BAUD speed of the controller and player is the same (if the player is set to 4800, you can set the controller to 4800 baud by changing DIP switch #4 on the KPC2).
7. It is recommended that the controller and player be attached to the same power bar so that the controller and player can be easily powered up together.

Show Process

Upon start-up, the controller will initialize the player(s) and then starts playing Chapter 1 to Chapter 2 (minimum 1-second duration). If there is no Chapter 2, the player will play to the end of the TITLE. Buttons can be added to the KPC2 (see page 2) so that when the viewer presses a button (1 to 16), the player will search to the appropriate chapter and will then play to the beginning of the next chapter. If there is no ending chapter, the player will play to the end of the current title. At the end of the video, the player will then start repeating Chapter 1 again.

Screen image while searching

If using DVD1L for synchronizing Chapter 1 on the DVDs, then the image at the beginning of Chapter #2 will be the image shown on the screen when each player is searching back to Chapter#1. For example, if Chapter #2 consists of a black video, then a black screen will be shown when the player is re-cueing back to Chapter#1.

System Test

During the show, you can always press the STILL button on player#1 to simulate the end of the show. All the players will then search back to Chapter 1 and begin playing again.

Dipswitch Functions

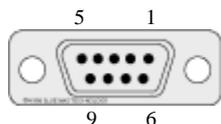| DIP SWITCH	OFF (*Default*)	ON
1	No Button Lockout	Show buttons are locked out during Shows
2	No Search Delay	Small delay after search for use with multiple players
3	4x4 keypad mapping	3x4 key mapping (can use **KEY34** keypad)
4	**9600 BAUD**	4800 BAUD

DIP switches are only read upon power up – if the switches are changes while the KPC2 is powered up, the setting do not take effect until the next time the unit is turned on.

Firmware updates

Ver 1.5   Polls player at startup.
Ver 1.6   Checks for valid button entries.
Ver 1.7   Added OUTPUT (x) on BUTTON PRESS (x).
Ver 1.8   Does not start if R0 is pulled low.

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Keypad Port on the KPC2 (if attaching pushbuttons)

CHAPTER#	Pins with 4x4 mapping	Pins for 3x4 mapping	5 volt DC (35ma) output on PARALLEL Port Pin#
2	2 and 6	2 and 6 (KEY 1)	6
3	2 and 7	2 and 7 (KEY 2)	18
4	2 and 8	2 and 8 (KEY 3)	5
5	2 and 9	3 and 6 (KEY 4)	17
6	3 and 6	3 and 7 (KEY 5)	4
7	3 and 7	3 and 8 (KEY 6)	16
8	3 and 8	4 and 6 (KEY 7)	3
9	3 and 9	4 and 7 (KEY 8)	15
10	4 and 6	4 and 8 (KEY 9)	
11	4 and 7	-	
12	4 and 8	-	
13	4 and 9	-	
14	5 and 6	-	
15	5 and 7	-	
16	5 and 8	-	
17	5 and 9	-	

We normally recommend that a PC2KTS terminal breakout adapter be purchased so that buttons can be easily attached to the KPC2.

Setting the Pioneer DVD-V7400 or DVD-V5000 to 'POWER ON START'

The full description of this procedure is outlined in the Operating Instructions manual of the player. While on the SETUP menu you may also want to confirm that the BAUD SPEED is set for 9600 baud.

- Make sure the player is powered up and the DVD disc is removed from the player. You may also just simply eject the DVD for this process.
- Access the ADV SETUP MENU by holding down the **SETUP** (V7400) or **HOME MENU** (V5000) button on the remote until the ADV SETUP MENU appears.
- If the POWER ON START setting on the menu set to OFF, move the selection arrow to POWER ON START.
- Set it to ON by pressing ▶ then press **ENTER** to access the sub-menu.
- On the sub-menu press 2 to select TITLE mode
- Enter 01 to select Title 1 then press **ENTER**
- Enter 01 to select Chapter 1 then press **ENTER**
- Press the **SETUP** (V7400)or **HOME MENU** (V5000) button to exit the menu.

Please contact Technovision for further details:

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Manuals:	www.technovision.com/manuals.html