

INSTRUCTIONS ON HOW TO USE THE HITACHI CP-X400  
VIDEO/DATA PROJECTOR AS SUPPLIED BY  
LOOK & LISTEN *Multimedia*

Tel: 01895 624 774 Fax: 01895 473 649  
E.Mail: [mail@llmedia.com](mailto:mail@llmedia.com). Web site: [www.llmedia.com](http://www.llmedia.com)

***Please be careful that children do not look directly into the light beam, or touch the lens.***

***After connecting to a computer, switch on the projector before the computer.***

***When finished, switch off the bulb, not the mains, and allow the projector to cool down.***

In the winter, bring the video recorder and videos in from a car first before setting up the equipment, to allow maximum time for them to warm up, and connect the video recorder to the mains as soon as possible. (Condensation can damage the recorder head.)

**SETTING UP:**

I suggest that you set up this equipment well in advance of the starting time for showing the video/dvd or computer presentation, to ensure that you are ready. The video/data projector should be put on a table or firm base so that it cannot be knocked over, or pulled off if the leads were to be tripped over. (Tie the leads around the table leg?)

When setting up the screen, attach the top to the arm so that it is leaning towards the projector. This will allow you to have the screen higher than the projector for easier viewing, as the light beam needs to be near to right angles to the screen. To alter the angle of the projector there is a button on each side which allows the feet to be adjusted. If the screen cannot be moved, use the menu to alter the setting for the KEYSTONE. You will not need blackout with this projector, but ensure there is no bright light directly on the screen.

**Setting-up the leads for use with video**

[a] Take the lead that has 3 coloured phono jack plugs at each end. These plugs have centre pins that stick out, which are used to take the video and audio signals from the video recorder to the projector. **(Note that if you want to show American videos [NTSC], you will need a special video recorder and not one that says NTSC on PAL TV. Contact me for further information).** Put the yellow plug into the corresponding coloured socket on the adapter (this converts the video recorder output from SCART to Phono). Plug the adapter into the rear of the video recorder or DVD player and the other end of the yellow lead into the corresponding projector coloured input. If your video socket does not use a SCART then just use the leads but only using one of the audios.

Plug a mains extension lead, which has at least a double socket, into a suitable mains outlet, and plug the projector and video recorder / DVD player into this.

[b] If you are using a separate amplifier to the projector's internal amplifier, then these are the instructions. The 30' long audio lead is used to connect the video recorder's sound output by plugging the phono jack plug into the video recorder white and red sockets. Take the wire to the amplifier, ideally by going along the back of chairs to the left and then down the side of the room to the front, and then back out to where it is positioned. This reduces the chance of tripping. (All leads that might be tripped over, fix down with Gaffa tape.) Put the large jack plug of the long lead into the line input socket of one amplifier. The other large plug is used when both amplifiers are used. Switch on the mains and turn the volume control down. The two phono to minijack socket lead that we supply, is used with computer speakers. The jack socket to XLR male plug is used with PA systems. The stereo mini jack to mini jack lead is used to take sound from a computer / laptop to the projector.

## **Cable Kits**

### **Standard cable kit**

The purpose of supplying the 10 metre (30 foot) of video, sound and data lead is that the computer / laptop and video recorder can be set up to be behind the audience, or to one side. . This enables the audience / congregation to not be disturbed by someone working at the front. You do not need to be in-line-of-sight to freeze, blank or change the input selection of the projector in the same way you would need to be when using the infrared remote control. This RS232 control is much better.

### **30 metre cable kit**

If you should purchase the 30 metre cable kit where the projector is being controlled from the back of the church/hall, then the existing 10 metre cable can be used to place a VDU as a visual fold back monitor away from the projector. (Ring us for the adapter to be sent to you). The 30 metre kit costs £150 incl vat and it is very useful for positioning the laptop next to the sound desk. A visual fold back monitor enables the worship leader or speaker to see what is on the projector screen behind them. See our web site [www.lmedia.co.uk](http://www.lmedia.co.uk).

## **Running a video test on the projector**

This section will enable you to set the volume controls on the amplifiers and the focus controls on the projector, so that when the audience has arrived, the equipment is already set up.

[a] Push the mains switch on at the side of the video projector and press the STANDBY/ON button on the remote or STANDBY/ON button on top of the projector.

[b] Adjust the 'FOCUS' of the lens on the projector by turning the outer ring of the lens. The size of the image (ZOOM) on the screen can be adjusted by moving the inner ring which has a black plastic adjuster on it. Adjust the front feet of the projector by pressing the button on each side of the projector - lift the projector at the same time and release the button.

[c] Push the videotape into the video recorder and press 'VIDEO' on the remote control or INPUT on the projector. When the picture appears on the screen and thus sound should be available, go to the separate amplifier and turn the volume control to give the sound volume required. [Note that when the room is full of people, their clothing will absorb some of the sound volume]. Further adjustment can be made using the remote. The sound can be switched off by pressing MUTE on the remote control.

[d] BLANK button on the remote can blank the picture. This is very useful when using Song Management Software to blank the screen in between songs. To change the blank screen from blue to black use MENU, then image, and then blank.

[e] FREEZE on the remote can hold a screen image on 'PowerPoint' whilst making changes or when using Song Management Software.

[f] The menu of the projector can be operated on the projector or remote control.

[g] The Pro V is labelled **Set Source to C-Video**. (Note that the projector input source message can be switched off via the Menu.) Put our supplied label on it. **Talk to the church about taking the message facility off the image, so that input switchover is seamless and does not distract the congregation.** This is done on the Projector, by going to Advance menu, Screen, Message, Turn off. (Turn on restores it. Note that with messages turned off, there is nothing to tell the congregation which channel is being displayed. This is not a problem when the switch/Pro V system is used.)

## **Using a computer**

[a] Always make connections between the computer and the projector when they are both switched off. To use a laptop, connect the computer to the projector using the supplied cable, or, if a PC, disconnect the monitor cable from the computer and connect the computer to the projector using the supplied cable. We can supply a radio mouse which is none directional and easier to use than infrared ones.

RGB out can be used to connect a computer monitor so that with the BLANK ON/OFF button pressed on the projector alterations can be made to your computer presentation programme without the audience seeing them. **(Switch on the laptop or PC after the projector).**

## **The Welcome Screen & Lock**

### **Pin Code Passwords**

The CP-X400 has 4 types of pin codes (also described in the CD Operations manual):

1. Security Password
2. My Screen Password
3. Pin Lock
4. Transition Detector

To access My Screen, Pin Lock, Transition Detector password settings you must first enter the 'Security Password' under Option, Security. This is set initially to the factory default of 8471. Then you get the My Screen password, and when you change it to 'On', you can enter your password. This will give you a four digit pin number entry screen. .

There is a choice of three options for the default image to be shown when the projector is turned on. Menu, advanced, screen, start up. One of these enables you to have the image of your choice. Some people like to display the name of the church or organisation perhaps with a telephone number. To enter your own image, follow the Menu through Advance, Screen, My Screen, Execute. (We create a song on SongPro called projector start up screen or PowerPoint could be used). When the image has been recorded, removing the input cable will confirm the new image as the default. For security reasons, some people like to lock this default image with a pin code, so that in the unlikely event that the projector is stolen, the owner's name and telephone number will always be displayed. The projector comes without a pin code set. To set up or to change the pin code, you have to go to Screen Lock, Lock Off. Next you press the right menu arrow once, let go, then hold it down for 3 seconds. This will give you a four digit pin number entry screen. Note that the projector came with stickers that say pin code protected which can be put on the projector.

### **Shutting-down procedure**

When you have finished using the projector, press twice STANDBY/ON on the projector or STANDBY/ON on the remote. When the fan has stopped, switch off the mains switch on the side of the projector. To extend the life of the bulb try not to switch it off in less than five minutes after using it. If the projector is accidentally switched off at the mains wait a minute before switching it on again. Replace the lens cap in its position.

### **Cleaning the air filter**

Clean the air filter every 100 hours **or three months** by using a vacuum cleaner. The number of hours can be seen by going to the options part of the menu. When 100 hours has been exceeded, two red lights flash on the projector and then eventually a message comes up on the screen. Use a vacuum cleaner on the outside of the filter. Then using the menu, go to options, filter, and press and hold the reset button on the projector or the remote control to bring up a further menu to reset the number of hours. This method is also used to reset the hours of the bulb after it has been changed.

### **Packing away procedure**

Remove one of the batteries of the remote control so that if the buttons of the remote control should be pressing against something then when you come to use it again the batteries will have not run down. It is worthwhile having some spare batteries. **Be careful that, when putting the computer cable in the bag, the pins are not bent.**

Disconnect all leads and be careful not to bend the pins on the RGB cable. In the unlikely event of the projector becoming faulty within the three years warranty period, contact us. If it is not repaired within seven working days we will arrange for you to have a loan unit.

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Bill Upchurch    October 2007

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Bill Upchurch Tel: +44 (0) 1895 624 774

Fax: +44 (0) 1895 473 649

20 Manor Road, Ruislip, Middx., HA4 7LB, UK

E-mail: [mail@llmedia.com](mailto:mail@llmedia.com)

Web Site: [www.llmedia.com](http://www.llmedia.com)