



Presenter Control

ORDERCODE 100801



SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from DMT.

The DMT Presenter Control brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on DMT, for more excellent lighting products. We design and manufacture professional light equipment for the entertainment industry. New products are being launched regularly. We work hard to keep you, our customer, satisfied.

For more information: iwant@dutchmediatools.info

You can get some of the best quality, best priced products on the market from DMT. So next time, turn to DMT for more great lighting equipment.

Always get the best -- with DMT !

Thank you!



DMT Presenter Control™ Product Guide

Warning..... 2
 Safety-instructions..... 3
 Operating Determinations..... 4

Description of the device..... 5
 Features..... 5
 Overview..... 6
 Backside..... 8

Installation..... 10
 Set up examples..... 10
 Programming the device..... 10
 Connecting a projector with the PC using the remote terminal..... 10
 Connecting a projector with the PC using IR..... 10
 Controlling an electric projection screen with the Presenter Control..... 11
 Light control with the Presenter Control..... 11
 Switch detection with the Presenter Control..... 11
 Connecting audio equipment..... 12
 Connecting video equipment..... 12
 Connecting VGA equipment..... 12
 MIC input and audio input..... 13
 Infrared transmission..... 13

Software installation..... 14
 Running the set up program..... 14
 Curriculum schedule..... 15
 Projector setup..... 15
 Serial port control..... 16
 Requirements for the RS232 code..... 16
 IR remote control..... 18
 DVD IR remote control..... 20
 Saving the setup..... 20
 Sending the program to the host..... 21

Maintenance..... 22

Troubleshooting..... 22

Product Specifications..... 23

Appendix 1: Pin definition of programming cable and Infrared learning cable..... 24

Appendix 2: Block diagram..... 25

Appendix 3: ASCII table..... 26

WARNING

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- DMT Presenter Control
- User manual
- 2 stereo audio cables 3,5mm jack – 1,4m – 3,5mm jack.
- 3 stereo audio cables 3,5mm jack - 1,4m – RCA.
- 2 Programming/ communication cable.
- 1 IEC power cable.
- 1 IR-emitting LED.
- 1 CD-Rom containing remote software.
- 1 Wireless IR remote control.

Return Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

WARNING



**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never leave any cables lying around.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Only use device indoor, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your DMT device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your DMT dealer for service.
- For replacement use fuses of same type and rating only.

- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

OPERATING DETERMINATIONS

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc.


You endanger your own safety and the safety of others!

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU (including UK) From April 2004	North America	Pin
L	Brown	Black	Phase
N	Blue	White	Neutral
	Green/Yellow	Green	Protective Earth

Make sure that the device is always connected properly to earth!

Description of the device

Features

The Presenter Control is used for switching one of six program sources to a beamer or large screen and at the same time enabling remote control and/ or automated control of several functions. The presenter control is easy to operate. It is therefore ideally suited to be used in conference rooms, multimedia rooms, college or classrooms.

- AC 90-230V - 50-60Hz
- Combined 6 x 1 VGA/ video - audio matrix switching module.
- 6.3mm jack MIC input.
- 2 x Video out (RCA).
- 2 x RGB out.
- Audio out (stereo 3,5mm mini jack).
- 2 x RS232 interface.
- Control panel interface.
- 2 x door detection input.
- Remote control interface.
- IR interface.
- 3 x programmable power socket.
- Analog control output (0-10V).



Fig. 1

Overview

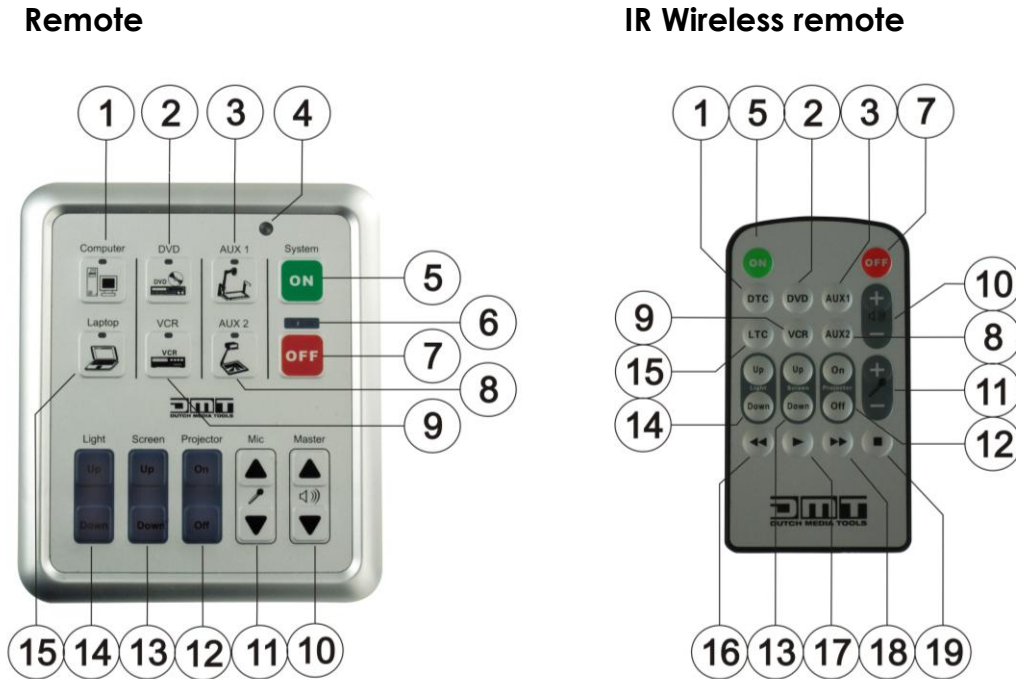


Fig. 2

1) Computer.

Pressing this button enables you to select the **computer** input. The LED will light if the **computer** input is selected.

2) DVD.

Pressing this button enables you to select the **DVD** input. The LED will light if the **DVD** input is selected.

3) Aux 1.

Pressing this button enables you to select the **Aux 1** input. The LED will light if the **Aux 1** input is selected.

4) IR receiver.

Use in combination with an infrared remote control.

5) System ON.

If the button is pressed, the system will turn on the power supply for other connected devices. By factory preset the device will turn on the aux power socket, the projector power socket, the amplifier power socket, lower the projection screen and dim the light in the room in sequence. After a programmable amount of time, the projector will start up. While starting up, the **system indication LED's** will blink alternately.

6) System indication LED's

7) System OFF.

If the button is pressed, the system will send a stop code to the projector via the control interface, hoist up the screen, and cut off the power supply to the amplifier and other devices in sequence. The projector will stop after a programmable amount of time.

8) Aux 2.

Pressing this button enables you to select the **Aux 2** input. The LED will light if the **Aux 2** input is selected.

9) VCR.

Pressing this button enables you to select the **VCR** input. The LED will light if the **VCR** input is selected.

10) Master volume control.

Press the ▲ button to increase the volume. Press the ▼ button to decrease the volume.

11) Mic volume control.

Press the ▲ button to increase the volume. Press the ▼ button to decrease the volume.

12) Projector On/Off.

Pressing these button switches the (external) projector on or off.

13) Screen Up/Down.

Pressing these buttons allows you to remotely move an external screen up or down.

14) Light Up/Down.

Pressing these buttons let's you control an external dimmer by means of an analog control voltage (DC 0-10V).

15) Laptop.

Pressing this button enables you to select the **Laptop** input. The LED will light if the **Laptop** input is selected.

16) DVD Backwards.

It is possible to control an optional DVD player using the Presenter Control. For more details see the chapter on DVD IR remote control on page 20.

17) DVD Start.

It is possible to control an optional DVD player using the Presenter Control. For more details see the chapter on DVD IR remote control on page 20.

18) DVD Forward.

It is possible to control an optional DVD player using the Presenter Control. For more details see the chapter on DVD IR remote control on page 20.

19) DVD Stop.

It is possible to control an optional DVD player using the Presenter Control. For more details see the chapter on DVD IR remote control on page 20.

Front



Fig. 3

20) Projector power indicator.

Lights up if the **Projector** socket is active.

21) Screen down indicator.

Lights up if the screen is lowered down.

22) Power switch.

Use to turn the system on or off.

23) Power LED.

Indicates that the unit is turned on.

24) Aux power indicator.

Lights up if the **Aux** socket is active.

25) Amp power indicator.

Lights up if the **Amp** socket is active.

26) Light intensity indicator.

The Presenter Control can send a control voltage (DC 0 – 10V) to an external dimmer. The intensity of the LED is linear with the DC voltage at the light output.

Backside

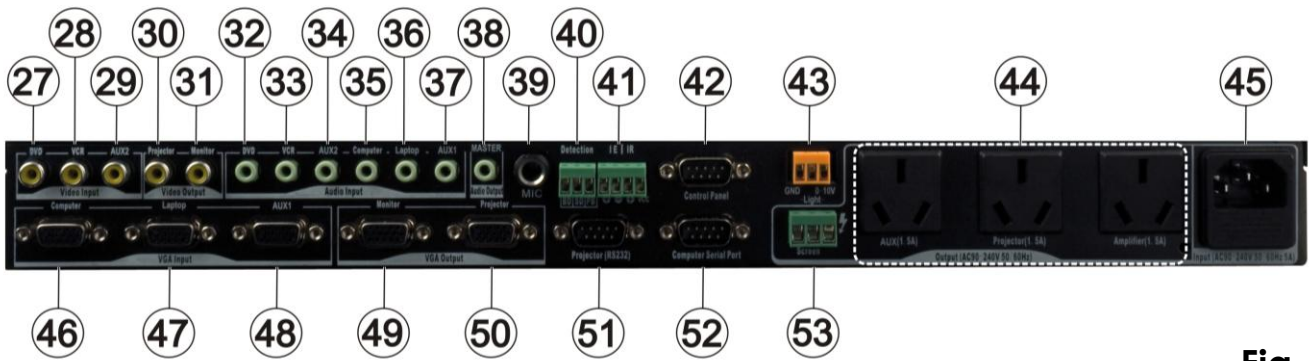


Fig. 4

- 27) DVD video input.**
Connect with S-video Out terminal of a S-video device.
- 28) VCR video input.**
Connect with the Audio Out terminal of a S-Video/YCbCr device.
- 29) Aux 2 video input.**
Connect with Video Out terminal of a video device.
- 30) Projector video output.**
This output will contain the video program signal.
- 31) Monitor video output.**
This output will continuously show the DVD output. This way the operator has a preview facility to find the desired program material on the DVD player.
- 32) DVD audio input.**
Connect with the Audio Out terminal of a DVD device.
- 33) VCR audio input.**
Use the supplied adapter only.
- 34) Aux 2 audio input.**
Connect with the audio output of a line level audio device.
- 35) Computer audio input.**
Connect with the audio output of a PC/ laptop.
- 36) Laptop audio input.**
Connect with the audio output of a PC/ laptop.
- 37) Aux 1 audio input.**
Connect with the audio output of a line level audio device.
- 38) Master audio output.**
Connect with your mixer or amplifier.
- 39) Mic audio input.**
Jack input. Level can be adjusted by using the **MIC Volume Control buttons (11)**.
- 40) Detection terminal.**
Use this input to connect door switch detectors.
- 41) IR LED terminal.**
Use to connect an Infrared LED for remote purposes.
- 42) Control panel**
9-pole Sub D connector for connecting the control panel.
- 43) Light control**
Control Voltage output for remote light control (0-10V).
- 44) Switched power sockets**
Used for remote controlling of external devices.
- 45) IEC inlet**
- 46) Computer VGA input.**
Connect to the VGA output of a PC/ laptop. Because this input takes the computer's VGA signal, The computer's monitor should be connected to the **monitor VGA output (45)**.
- 47) Computer Laptop VGA input.**
Connect to the VGA output of a PC/ laptop.
- 48) Aux 1 VGA input.**
Connect to the VGA output of a PC, laptop or other VGA compatible device.

49) Monitor VGA Output.

Connect with the VGA in terminal of a monitor. This output will continuously show the computer's VGA signal.

50) Projector VGA Output.

Connect with the VGA in terminal of a projector. This output will contain the VGA program signal.

51) Projector RS232 terminal.

Connect with the RS232 terminal of a projector.

52) Computer serial port.

Connect with the RS232 port of your PC/ laptop to program the Presenter Control.

53) Projection screen control terminal.

Use this terminal for projection screen remote control. For more details see page 11.

Installation

Remove all packing materials from the Presenter Control. Check that all foam and plastic padding is removed. Connect all cables.

Set up examples

Programming the device

1. Connect the **Computer serial port (52)** on the rear panel of the Presenter Control with the corresponding serial port of your PC/ Laptop using the supplied programming/ communication cable.
2. Connect the **Control Panel Port (42)** of the Presenter Control with the 9-pin port of the **Control Panel** using the supplied programming/ communication cable.

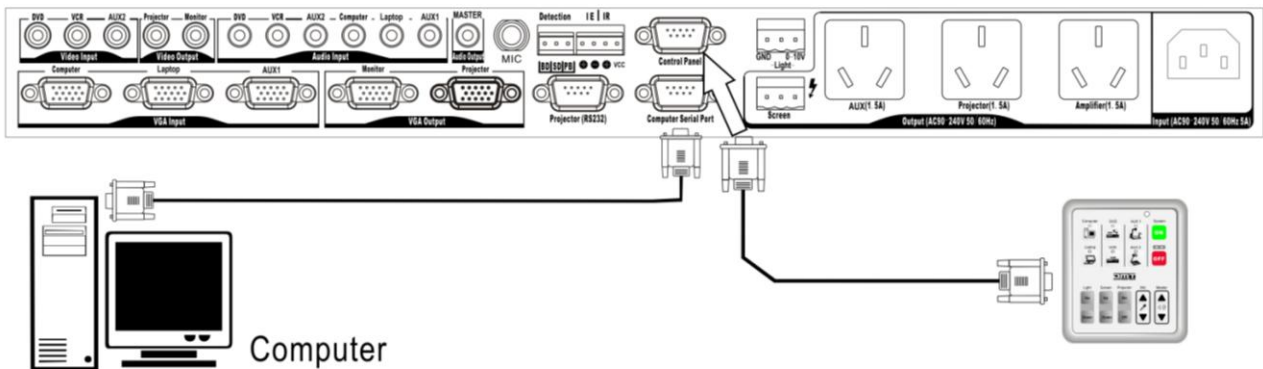


Fig. 5

Controlling a projector with the Presenter Control using the remote terminal

Use a suitable cable between presenter control and projector. For pinning of the Presenter control connector see appendix 1.

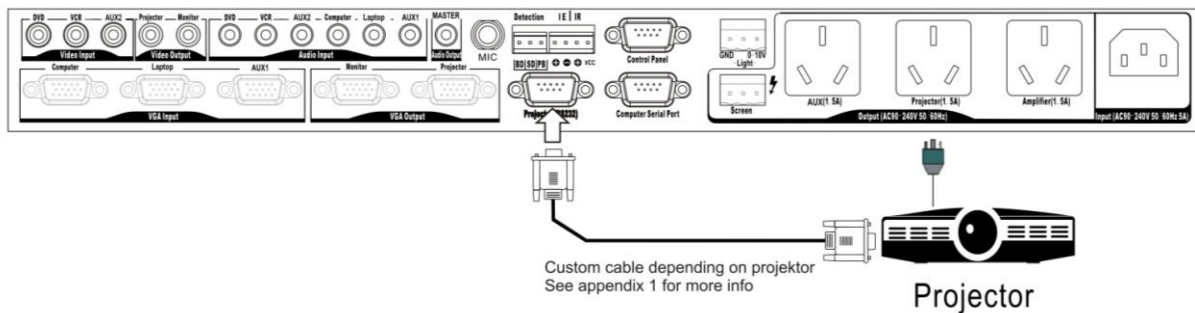


Fig. 6

Controlling a projector with the Presenter Control using IR

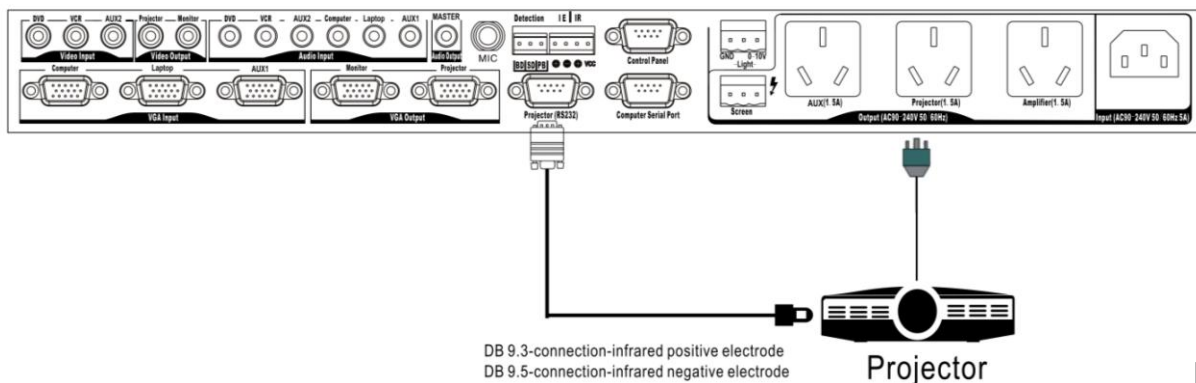


Fig. 7

Controlling an electric Projection screen with the Presenter Control

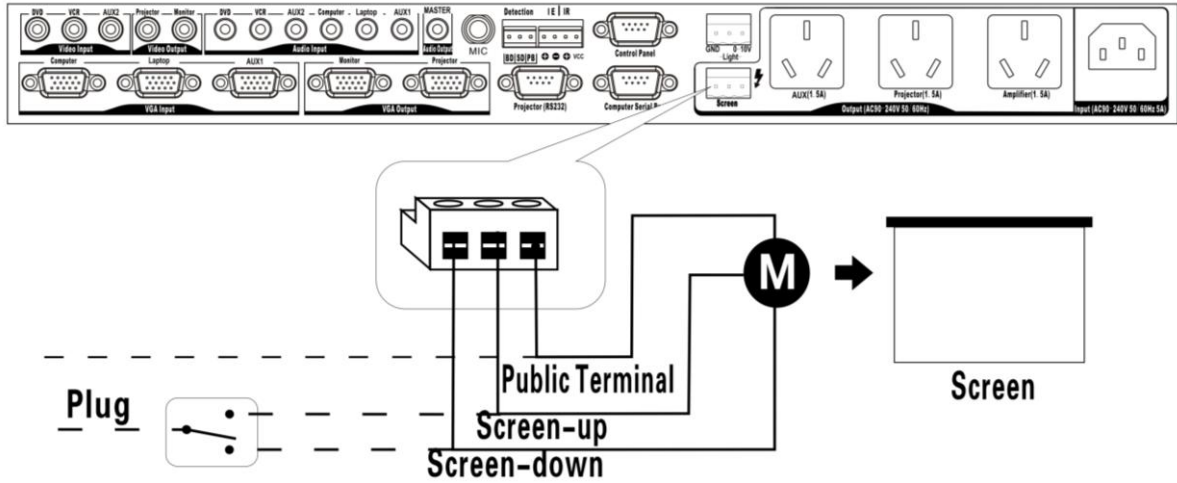


Fig. 8

Light control with the Presenter Control

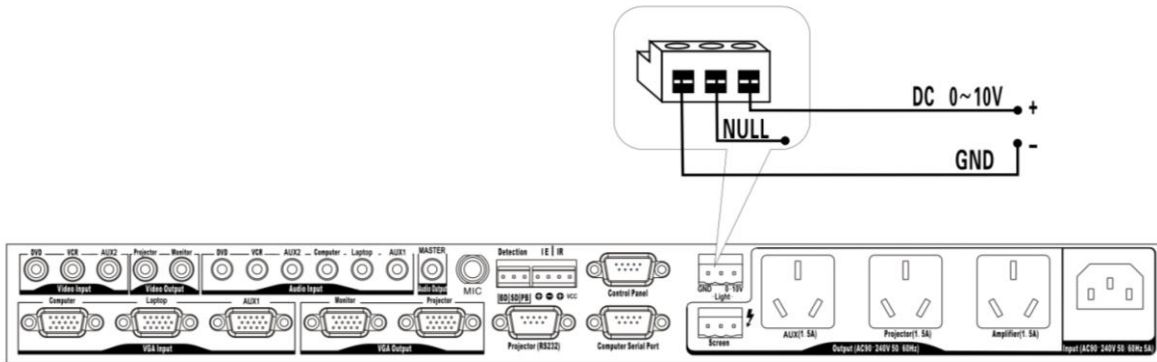


Fig. 9

Switch detection with the Presenter Control

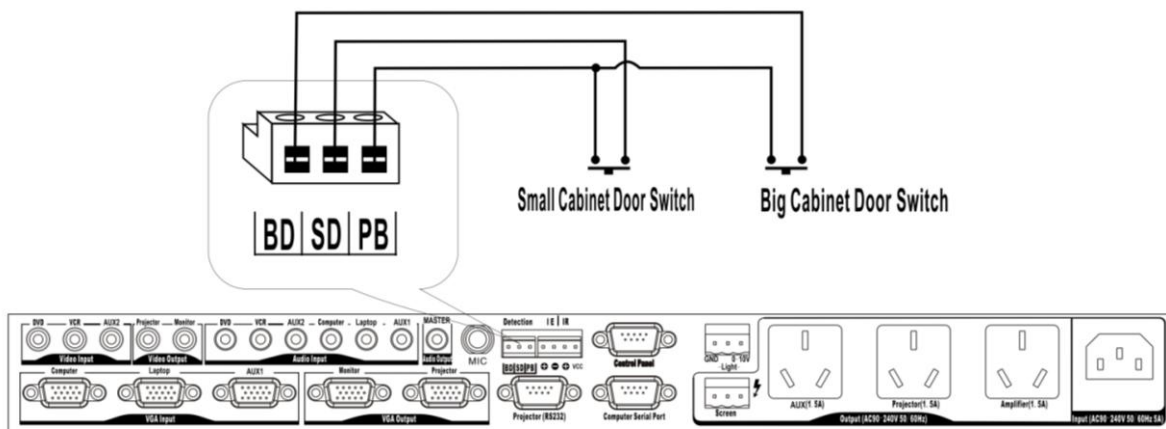


Fig. 10

Attention:

1. Switches have to be NC types. They must be closed when the door is closed.
2. If the "small door" switch is not used. Short the input.
3. If the "Big door" is opened, the unit ignores the "small door" switch.

Connecting audio equipment with the Presenter Control

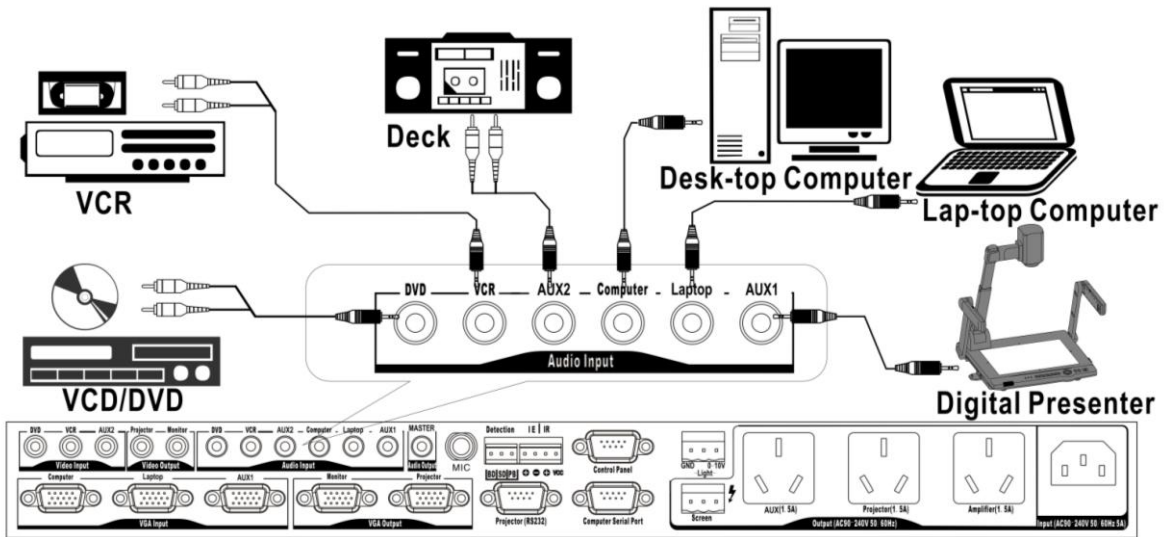


Fig. 11

Connecting video equipment

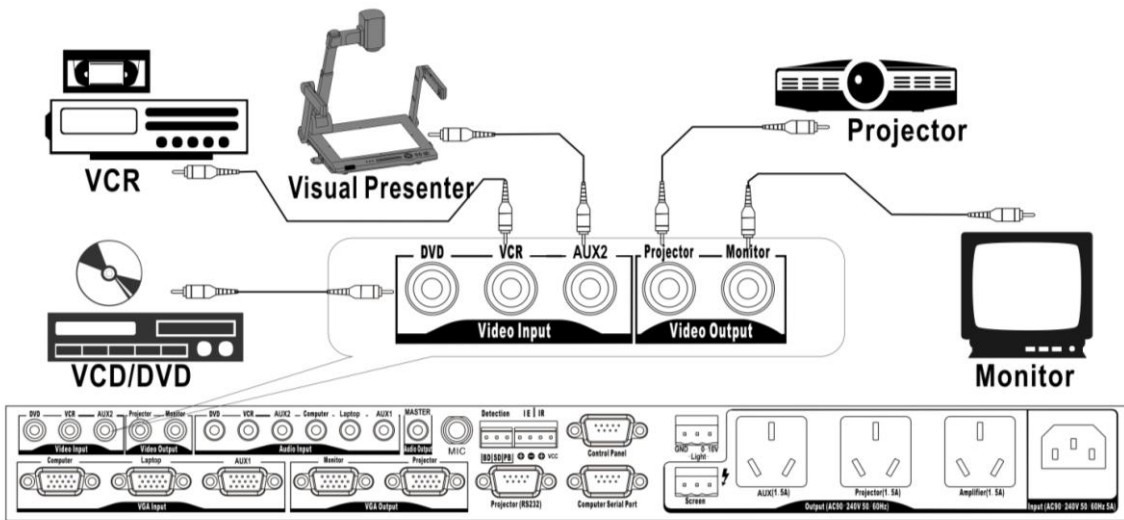


Fig. 12

Connecting VGA equipment

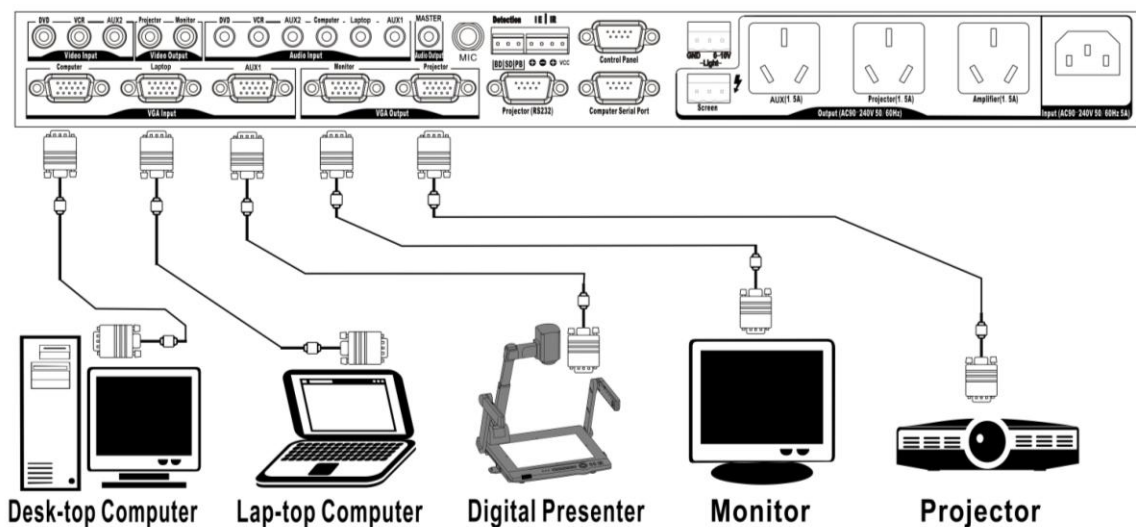


Fig. 13

Mic input and audio output

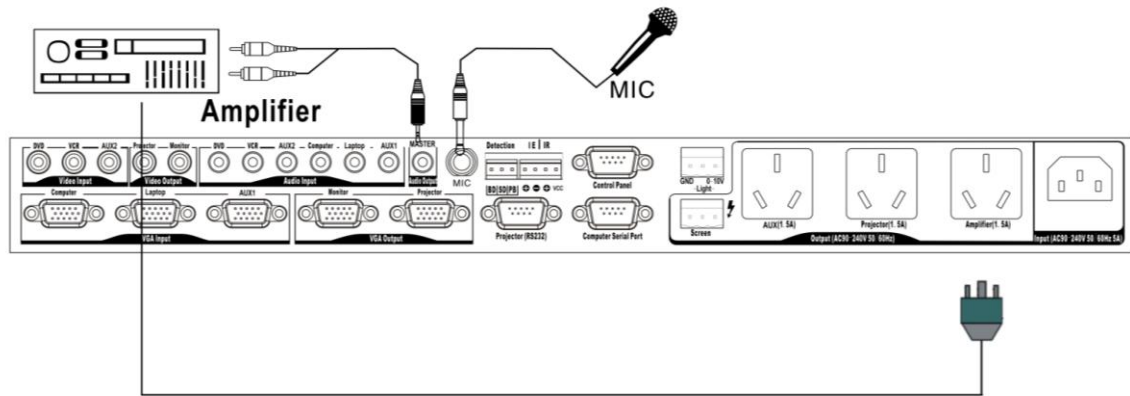


Fig. 14

Infrared transmission

Connect the supplied IR LED to the terminal. Be sure to check the polarity of the LED. (white = +, black = -). Attach the LED to the receive window on the device to be controlled.

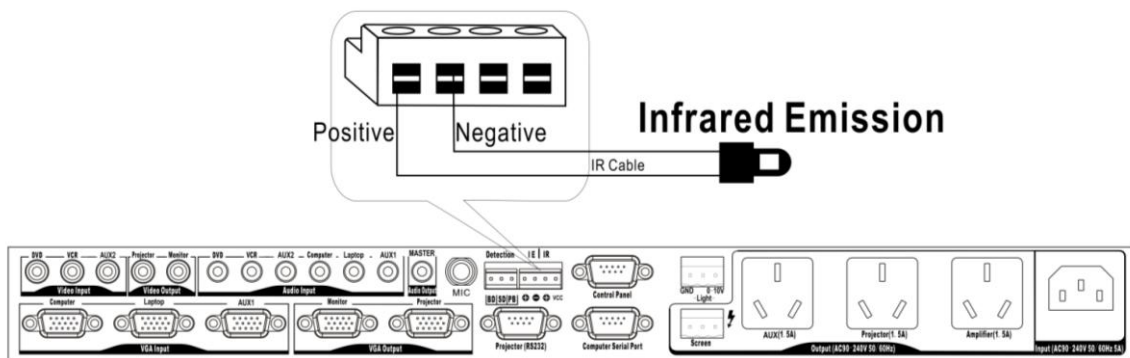


Fig. 15

Software Installation

If you wish to use the automation or remote functions Host, please install the Presenter control Setup Program.

Minimum system requirements:

- Intel Pentium 200Mhz or up.
- Windows 2000/ XP.
- 128M Memory.
- 30Mb Hard Disk.

Attention: Presenter control software is compatible with WIN2000/XP. The program may not function properly under other operating systems.

Installation procedure:

- Be sure to turn off the power supply to all equipment as well as the computer.
- Please connect the random communication/ programming cable to the RS232 port of the computer and the Host.
- Turn on the power supply to the host and the computer.
- Insert the CD-ROM into the computers CD-drive and follow the instructions.

Running the setup program.

Run the setup wizard program.

The computer will start searching for the Presenter Control and the window shown in figure 5 will appear.

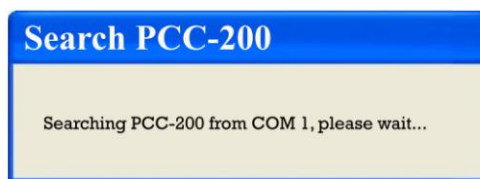


Fig. 16

If the computer fails to find the Presenter Control, the window shown in Figure 6 will appear.



Fig. 17

If the connection is set up properly, the setup program will start the main interface (figure 18).

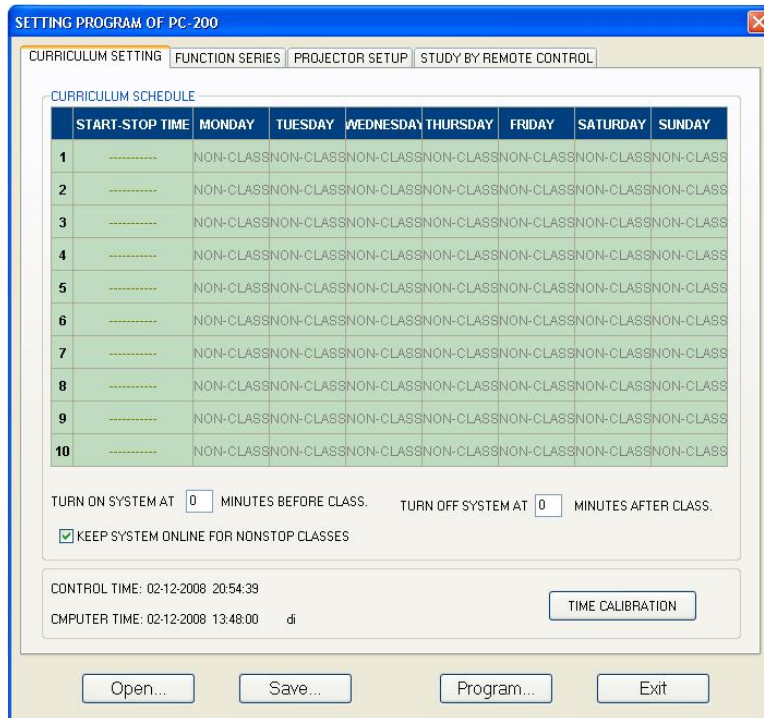


Fig. 18

Curriculum schedule

The first tab is called Curriculum Schedule. Use this tab to automate your Presenter Control. You can program the Presenter Control to start up and shut down (according the sequence referred to on page 6). You can program up to 10 events each day.

Projector setup

After selecting the projector setup tab, following window will appear.

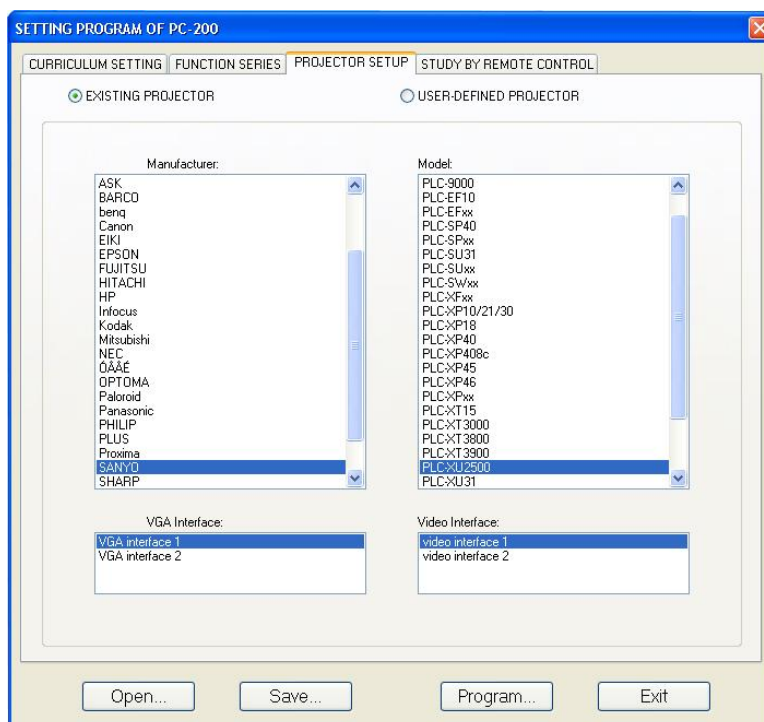


Fig. 19

First check if your projector is listed in the Existing projector list, if so please select the desired projector and click the icon “programming”. Now the setup program will transmit the right RS232 code to the Host.

If your projector is not in the list, you have to setup the control protocol yourself, using the projectors information.

Presenter control will support Projectors which are controlled by either serial port or IR-remote control. Please refer to your projectors operating manual or consult your dealer for the right control code.

Serial port Control

First select “USER-DEFINED PROJECTOR”. Now the window shown in figure 20 will appear.

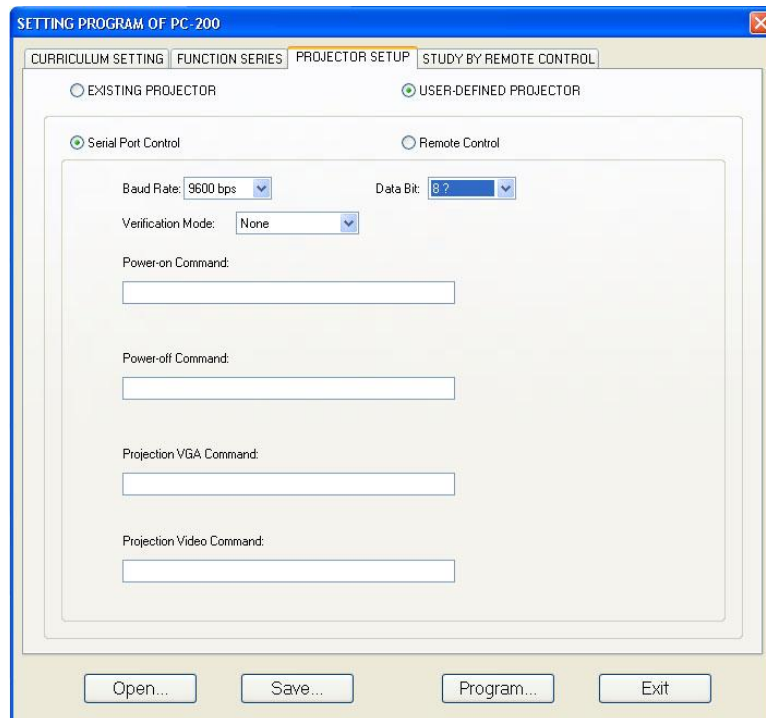


Fig. 20

Click “serial Port Control” after confirmation. Now the communication parameters will be identified in advance.

- Baudrate
- Data number of bits: 7 bits or 8 bits.
- Stop Bit: 1 bit.
- Verification Mode: none, even, odd, space, mark.

Please look up the projectors parameters carefully in the projectors manual. If you're not sure contact your dealer.

Requirements for the RS232 code.

- Use hexadecimal digits only. Please transform other codes to the Hexadecimal format.
- The symbol “\” is necessary for separating the Hex-digits.
- Special characters have to be transferred into Hexadecimal digits also. Use a ascll table for special characters. E.g. Blank-space is “20”, the line feed character is “0A” and enter character is “0D”.

Example 1

Projector Code:

Power on	02H	00H	00H	00H	00H	02H		
Power off	02H	01H	00H	00H	00H	03H		
Input select RGB	02H	03H	00H	00H	02H	01H	01H	09H
Input select DVI (analog)	02H	03H	00H	00H	02H	01H	02H	0AH
Input select DVI (digital)	02H	03H	00H	00H	02H	01H	1AH	22H
Input select video	02H	03H	00H	00H	02H	01H	06H	0EH
Input select S-video	02H	03H	00H	00H	02H	01H	0BH	13H
Input select viewwer	02H	03H	00H	00H	02H	01H	1FH	27H
Picture mute on	02H	10H	00H	00H	00H	12H		
Picture mute off	02H	11H	00H	00H	00H	13H		
Sound mute on	02H	12H	00H	00H	00H	14H		
Sound mute off	02H	13H	00H	00H	00H	15H		
On screen mute on	02H	14H	00H	00H	00H	16H		
On screen mute off	02H	15H	00H	00H	00H	17H		

Communication agreement

Baudrate : 9600bps

Databit : 8

Verification Mode: None

Stopbit : 1

Now the following parameters should be entered in the window as shown in figure 21.

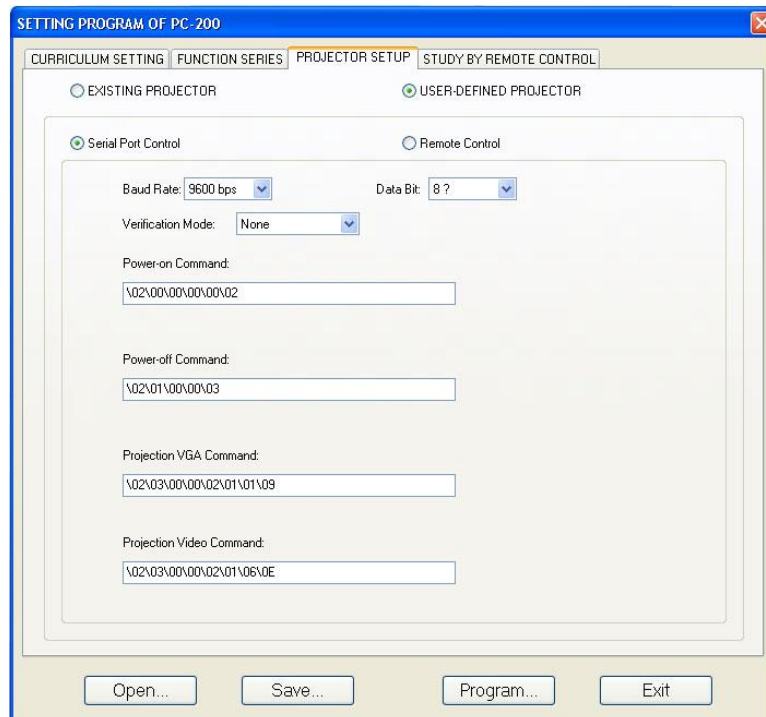


Fig. 21

Example 2

Power-on command of the projector is POWR__1 (Enter)

(_ signifies space)

Then in the command field should contain: \50\4f\57\52\20\20\20\31\0d (upper/lower case is insensitive).

Also see the ACII table in appendix 3.

Infrared remote control

If it is impossible to obtain the Control Code of a projector, but the projector can be controlled by infrared control, please select the "Infrared Remote Control" button. See figure 22.

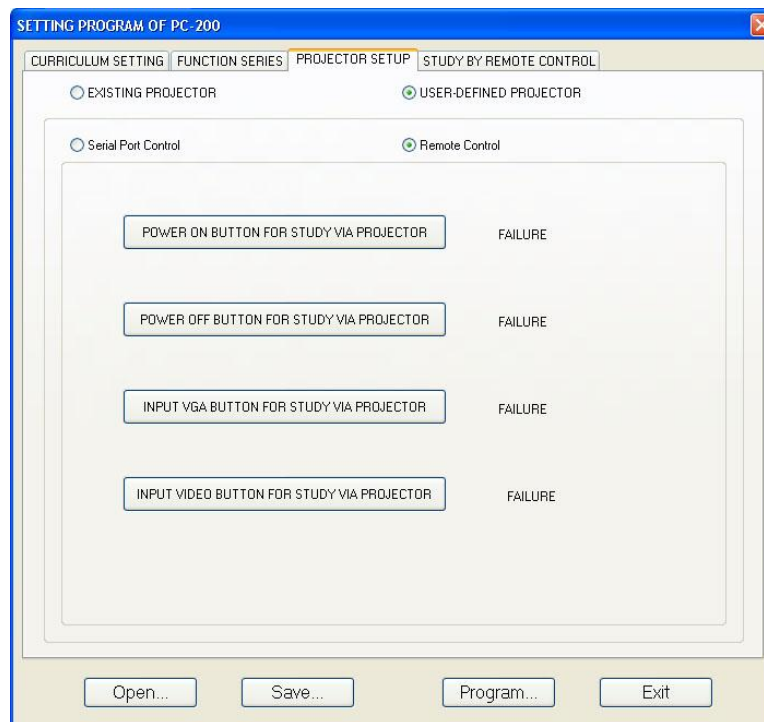


Fig. 22

Make an "Infrared Learning Cable" (see appendix 1) and connect the wire as shown in figure 7 on page 9.

The system shall pickup the infrared code of the projector via infrared receiving window on the control panel of the host.

The computer shall process the infrared code and send out the infrared signal to the infrared receiving window of the projector through the infrared LED, connected to the wire. You can observe the action of the projector to verify the correctness of the infrared code.

Please note the following :

- Construct an Infrared learning cable according the figure in appendix 1.
- The infrared diode should be connected to pins 3/5 and correspond with Anode (+) and Cathode (-) respectively.
- Please place the Infrared LED next to the Infrared receiving window of the projector.

Attention

Please confirm that the power supply of the projector is kept on during the infrared study.

Before executing a certain function, confirm that the projector is ready to receive infrared signals.

After confirmation of the correct connection, turn on the computer and run the setup program to reach the screen shown in figure 22. Aim the remote control of the projector at the receiving window of the host's control panel. Press the corresponding software button (for the infrared function to study), The setup program will start a window for the button you pressed. See figure 23 on the next page.

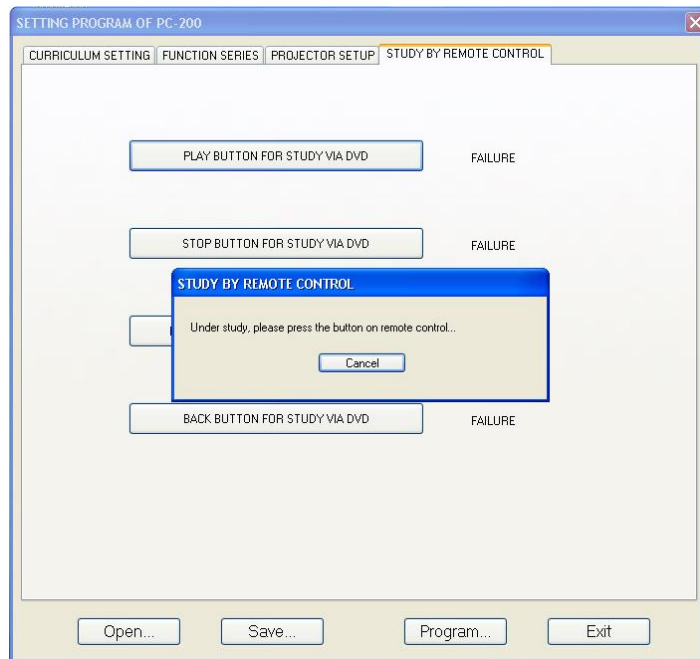


Fig.23

Now, press the corresponding button on the projector's remote control. After successful sampling of the infrared code, a pop up window shall appear asking you to confirm. Therefore, please check the projector's action. If ok, then confirm. If not ok, press "No" and start all over again.

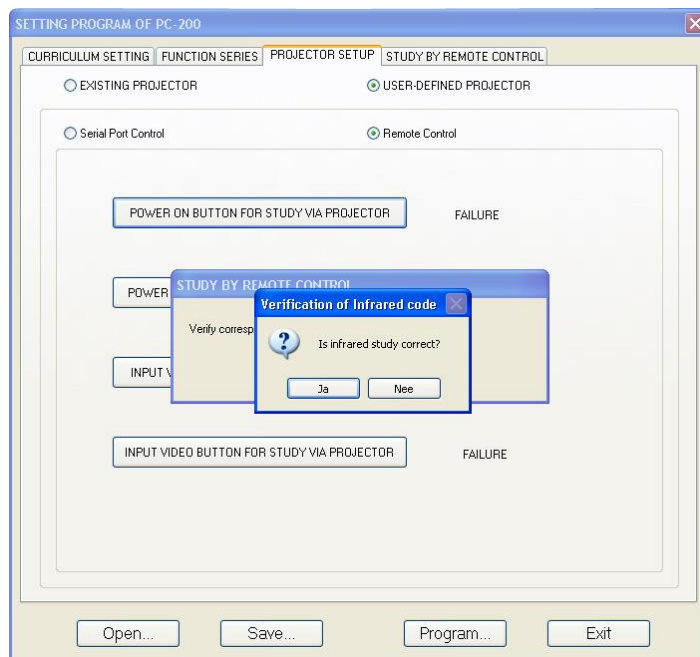


Fig. 24

Possible causes for problems during infrared learning mode

- Check the connections of the learning cable.
- Check if the infrared LED is correctly placed next to the infrared receiving window of the projector.
- Incorrect sampling of infrared code. Try again and check the projector's action.

Let the host learn each function in sequence.

DVD IR remote control

It is possible to control a DVD player with your Presenter Control by using its infra red remote control. Just like with a projector as described in the former chapter. Once programmed, you can use the bottom row of the remote control to control your DVD player.

1. Connect the IR LED to the **IR LED terminal (37)** as shown in figure 15 on page 12.
2. Select the "Study by remote control" tab. Now a window as shown in figure 25 will pop up.

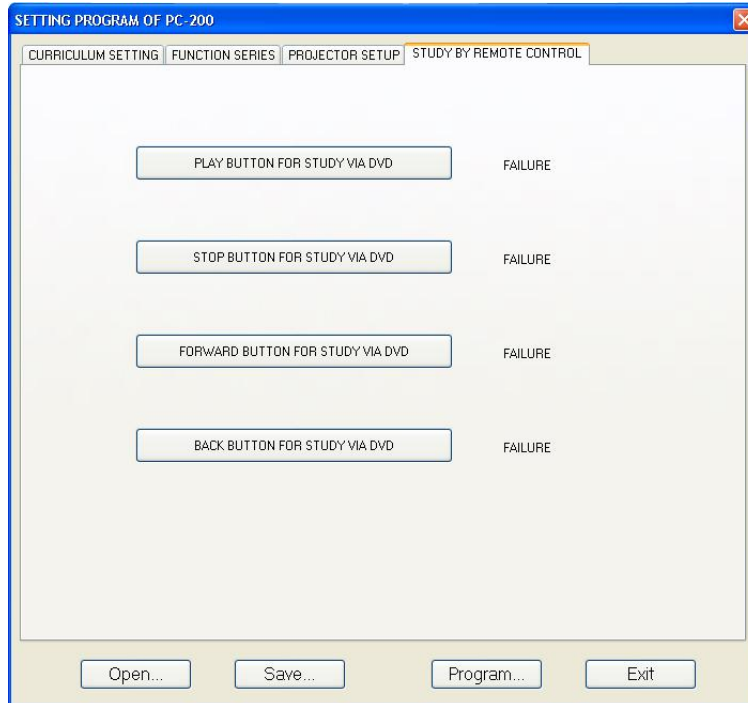


Fig. 25

Proceeding is similar to the projector set up with remote learning function.

Saving the setup.

Please save the data for future maintenance or transform the data to those Hosts which have a similar configuration. See Figure 26. It is therefore wise to save the setup using a filename that includes the projector's name or model number.

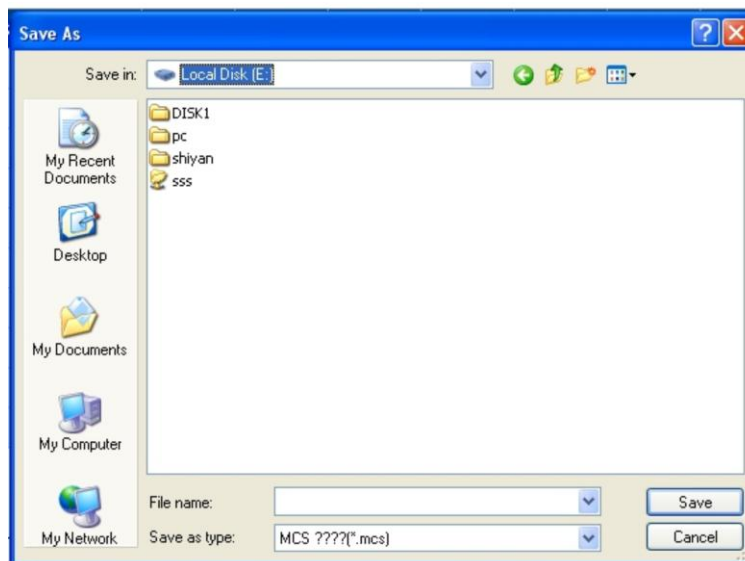


Fig. 26

Sending the program to the Host.

Connect the programming cable, check if connected properly and click the “programming” button. Now the data will be send to the host. The transmission speed shall be shown in the transmission process. When programming is completed successfully, the Presenter control will restart automatically. A pop-up window as shown in Figure 27 will appear. Confirm and the setup program will be closed.

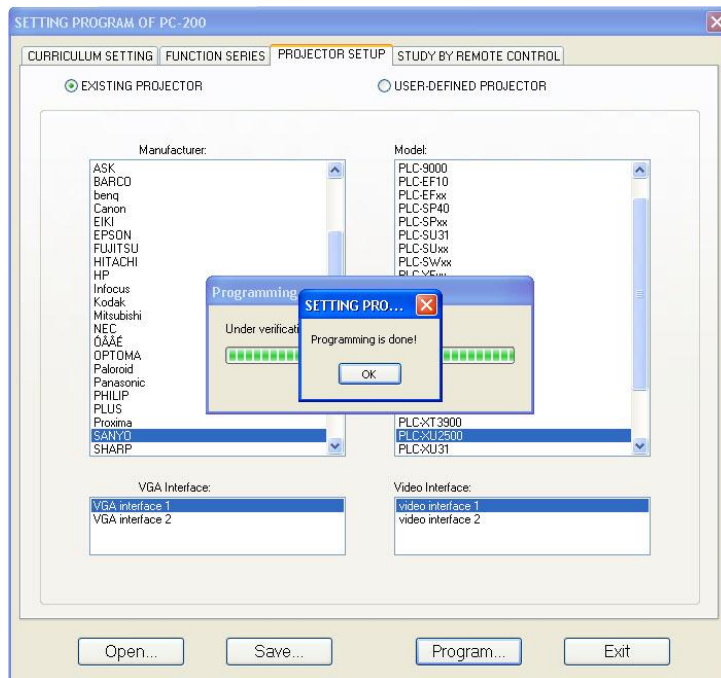


Fig. 27

Maintenance

The DMT Presenter Control requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.

Keep connections clean. Disconnect electric power, and then wipe the connectors with a damp cloth. Make sure connectors are thoroughly dry before linking equipment or supplying electric power.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

The indication lamp on the control panel is not illuminated.

1. If the device does not operate properly, unplug the device.
2. Check power from the wall, all cables, the fuse, etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. If nothing happens after 30 seconds, unplug the device.
5. Return the device to your DAP Audio dealer.

The projector is uncontrollable.

Possible causes:

1. The control code of the projector is not right. (please restart the setup program).
2. The communication cable is not connected to the projector appropriately. (Please check if the pins of the communication cable are soldered correctly and according the diagram in appendix 1).

Interference on projection screen.

Possible causes:

The power supplies for the projector and other equipment don't share common ground.

Product specification

Power supply: AC 90-230V - 50-60Hz

Signal inputs:

Video: (RCA) 3 lines

RGB signal: 3 lines

Audio: 6 stereo lines (3,5 mm jack)

1 mic (6,35 mm jack)

Signal outputs:

Video: (RCA) 2 lines

RGB signal: 2 lines

Audio: 1 stereo line (3,5 mm jack)

Control inputs: RS-232 interface: 2 lines

Control panel interface: 1 line

Door detection: 2 lines

Remote control interface: 1 line

Infrared interface: 1 line

Power supply connection:

Electric screen: 1 line

Lighting system: 1 line

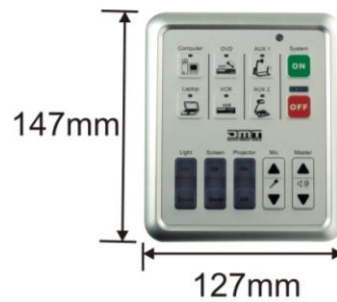
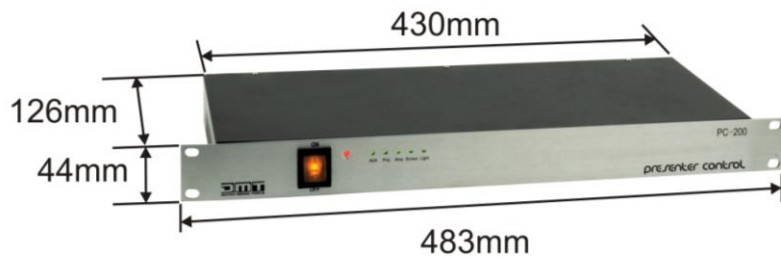
Projector: 1 line

Amplifier: 1 line

AUX: 1 line

Dimensions: 483 x 216 x 44 mm (LxWxH)
(main unit)

Dimensions: 147 x 127 mm (LxW)
(control unit)



Design and product specifications are subject to change without prior notice.



Website: www.Highlite.nl

Email: service@highlite.nl



Appendix 1: Pin definition of programming cable, Infrared learning cable and projector remote cable.

Programming cable.

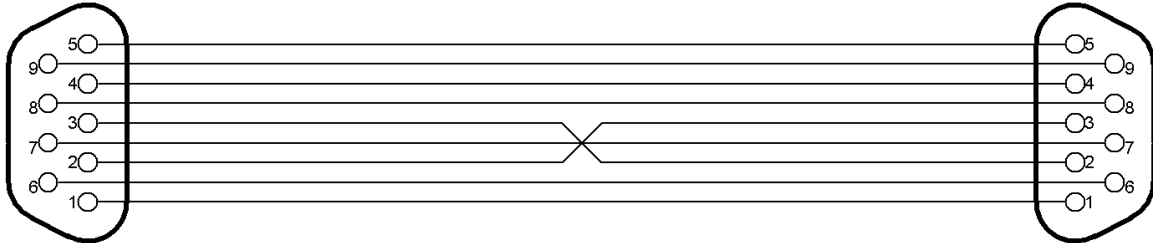


Fig. 1

Infrared learning cable.

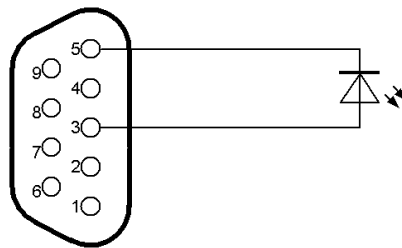


Fig. 2

Projector remote cable.

This cable depends on the remote connector of your projector. This cable has to be bought separately or custom made.

The **projector RS232 terminal (47)** connections are shown in fig. 3.

Connect to Presenter Control
Projector (RS232) terminal

Connect to Projector remote terminal
Check your projectors manual for the
wiring of the connector.

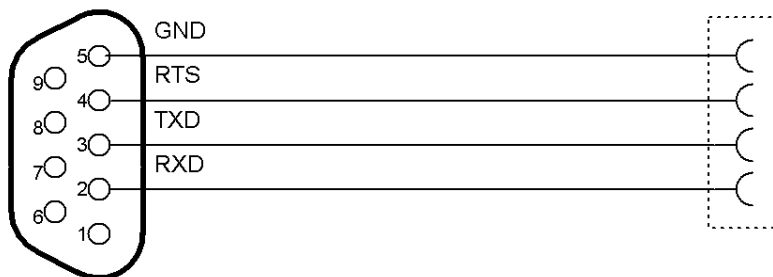
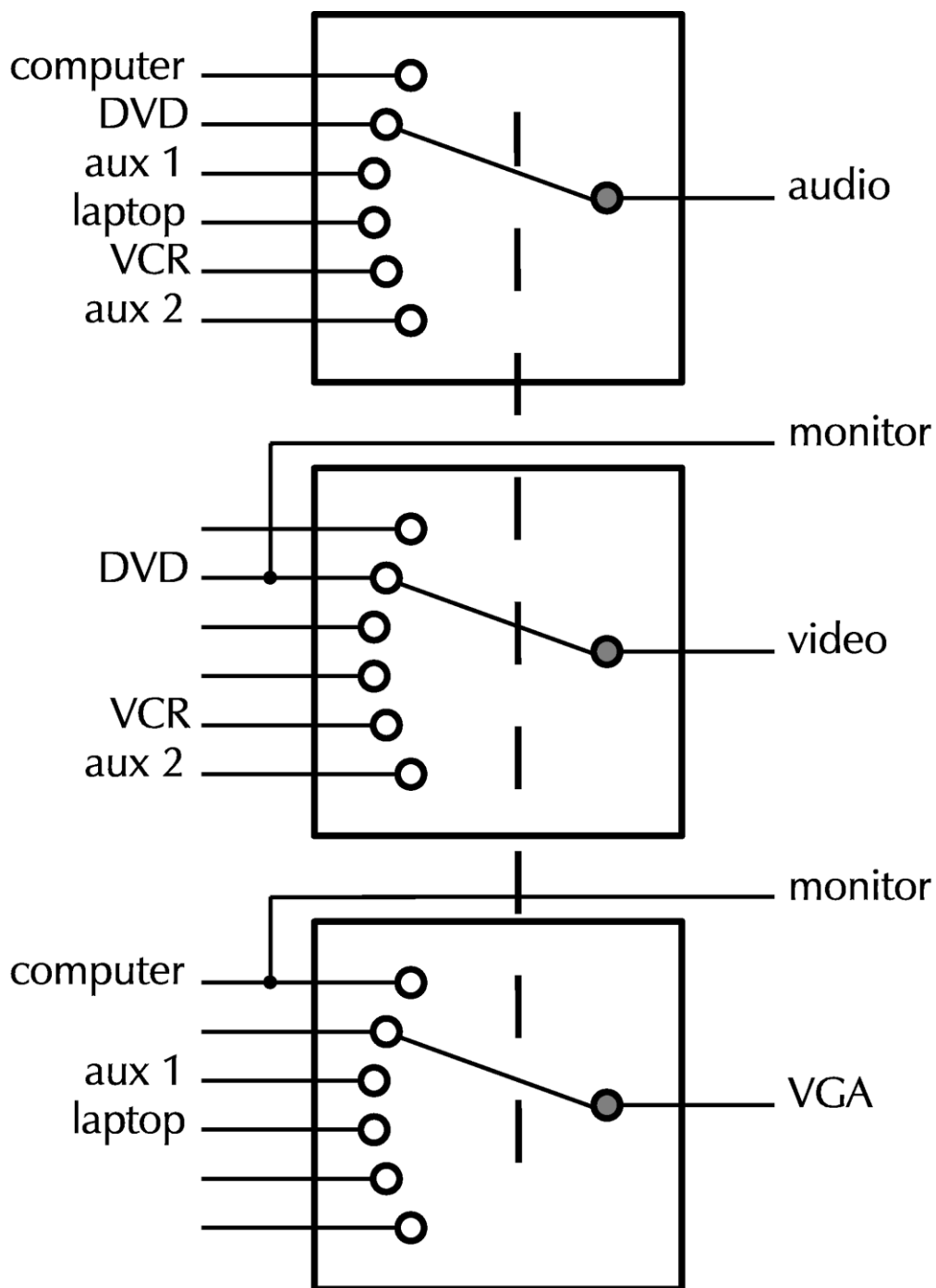


Fig. 3

Appendix 2: Block diagram of the Multimedia centralized control system.





DUTCH MEDIA TOOLS

© 2009 DMT.