PRESENTER CONTROL COMPACT
ORDERCODE 100802

Congratulations!

You have bought a great, innovative product from DMT.
The DMT Presenter Control Compact 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

DMT Presenter Control Compact™ Product Guide

WARNING

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 look directly into the light source.
- 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.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !

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 !

Description of the device

Features

The Presenter Control Compact has a small size, compact appearance, many functions and it is easy to operate. It is therefore ideally suited to be used in conference rooms, multimedia rooms, college or classrooms.

- One button click.
- Built in 2 x 1 VGA matrix switcher.
- Built in 3 x 1 video matrix switching module.
- Built in 5 x 1 audio matrix switching module.
- 6.3mm jack MIC input.
- Built in digital tuning module.
- Built in RS232 interface.
- Power supply 12Vdc.

Fig. 1

Accesoires:

- 2 stereo audio cables 3,5mm jack – 1,4m – 3,5mm jack.
- 2 stereo audio cables 3,5mm jack - 1,4m – RCA.
- 1 RS232 cable/ serial port.
- 1 power adapter.
- 1 IR-emitting LED.
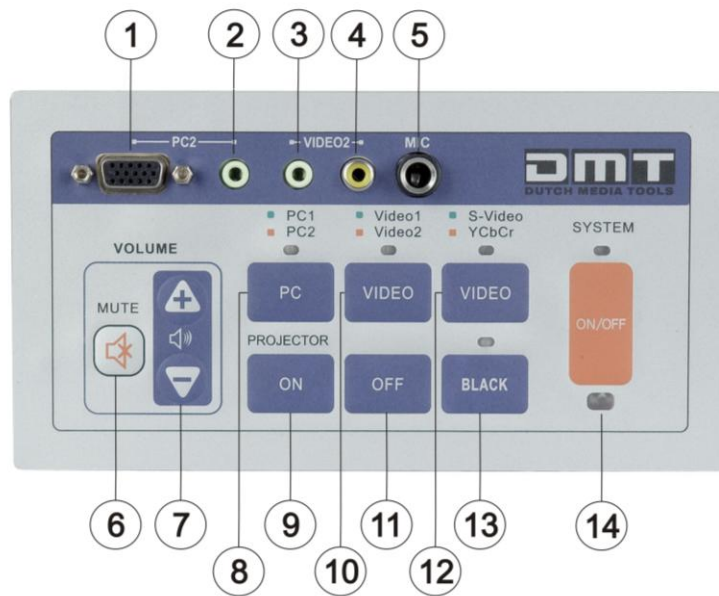- 1 CD-Rom containing remote software.

Overview

1) **PC2 VGA Input.**
   Connect with VGA out terminal of PC 2.
2) **PC2 Audio Input.**
   Connect with audio out terminal of (external)PC 2 device.
3) **Video 2 Audio Input.**
   Connect with audio out terminal of (external)Video 2 device.
4) **Video 2 Video Input.**
   Connect with video out terminal of (external)Video 2 device.
5) **MIC.**
   Use to connect your microphone.
6) **Mute.**
   Press the Mute button to toggle the Mute function on or off.
7) **Volume control.**
   Press "+" button to increase the volume. Press "–" button to decrease the volume.
8) **PC 1/PC 2 selection button.**
   Pressing this button enables you to select between PC 1 and PC 2. The LED will light if PC 2 is selected.
9) **Projector On.**
   Pressing the button switches the (external) projector on.
10) **Video 1/Video 2 selection button.**
    Pressing this button enables you to select between Video 1 and Video 2. The LED will light if video 2 is selected.
11) **Projector Off.**
    Pressing the button switches the (external) projector off.
12) **S-video/YCbCr selection button.**
    This button enables you to select between S-Video and YCbCr. The LED will light if YCbCr is selected.
13) **Black.**
    Pressing the button once will black out all signals. The Led will light.
14) **System ON/OFF.**
    The PCC is in stand-by status when the upper LED on the control panel is illuminated red. Press the button, the upper LED will light green and the system will work with the preset program. When pressing the button for up to 1 second. The system will start it's shut down program and resume in Standby status.
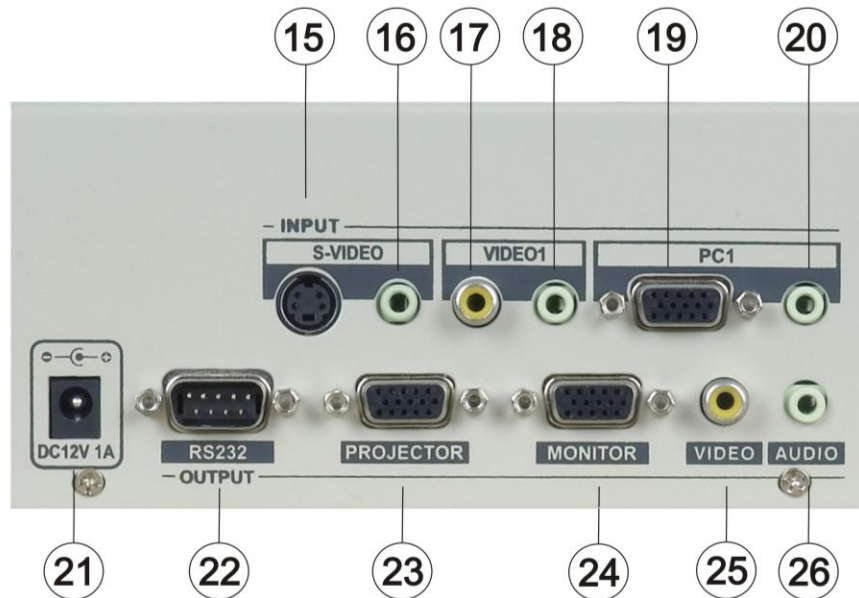
Backside

Fig. 3

15) S-video Input.
   Connect with S-video Out terminal of the S-video device.
16) S-video/YCbCr Audio Input.
   Connect with the Audio Out terminal of S-Video/YCbCr device.
17) Video 1 Video Input.
   Connect with Video Out terminal of the Video 1 device.
18) Video 1 audio Input.
    Connect with the Audio Out terminal of the video 1 device.
19) PC 1 VGA input.
   Connect with VGA Out terminal of the PC 1.
20) PC 1 Audio Input.
    Connect with the Audio Out terminal of the Video 1 device.
21) 12Vdc Input.
    Use the supplied adapter only.
22) Projector RS232 Terminal.
   Connect with the RS232 terminal of a projector.
23) Projector VGA Output.
   Connect with the VGA in terminal of a projector.
24) Monitor VGA Output.
   Connect with the VGA in terminal of a monitor.
25) Video Output.
   Connect with the Video In terminal of a Projector.
26) Audio Output.
   Connect with a line in terminal of an amplifier.

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Installation

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

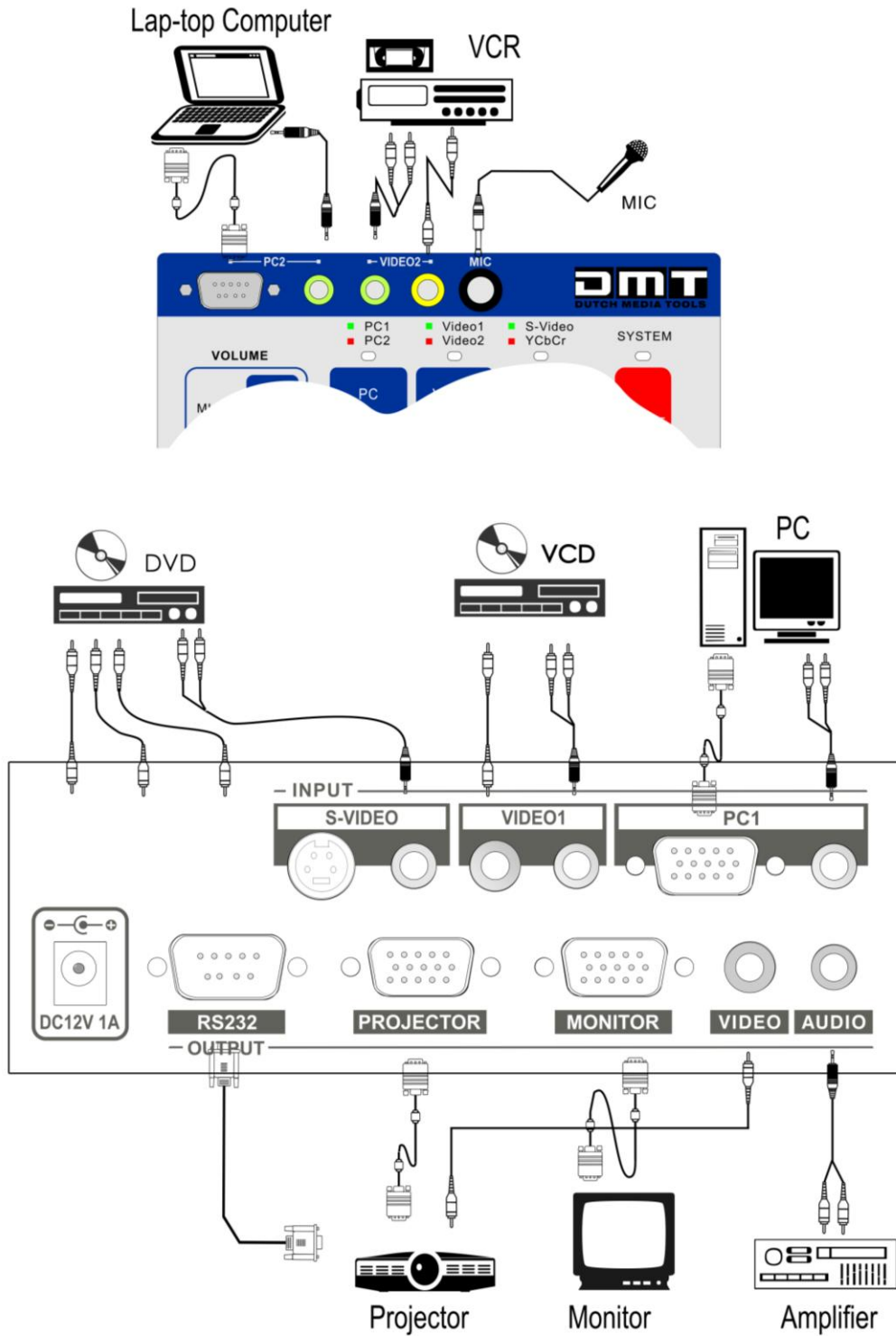## Host Terminals and Connection Diagram.

Fig. 4

System Setup

Software Installation.

If you wish to control the projector via system Host, please install the PCC Setup Program.

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

Attention: PCC software is compatible with WIN2000/XP. The program may not function properly under other software platforms.

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 Compact and the window shown in figure 5 will appear.
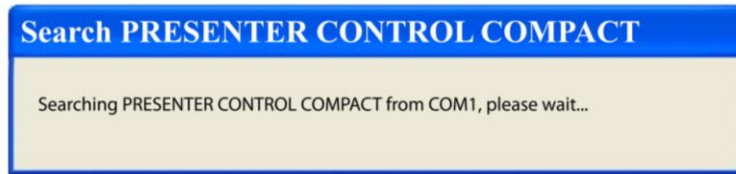

Fig. 5

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

Fig. 6

If the connection is set up properly, the setup program will start the main interface (figure 7).
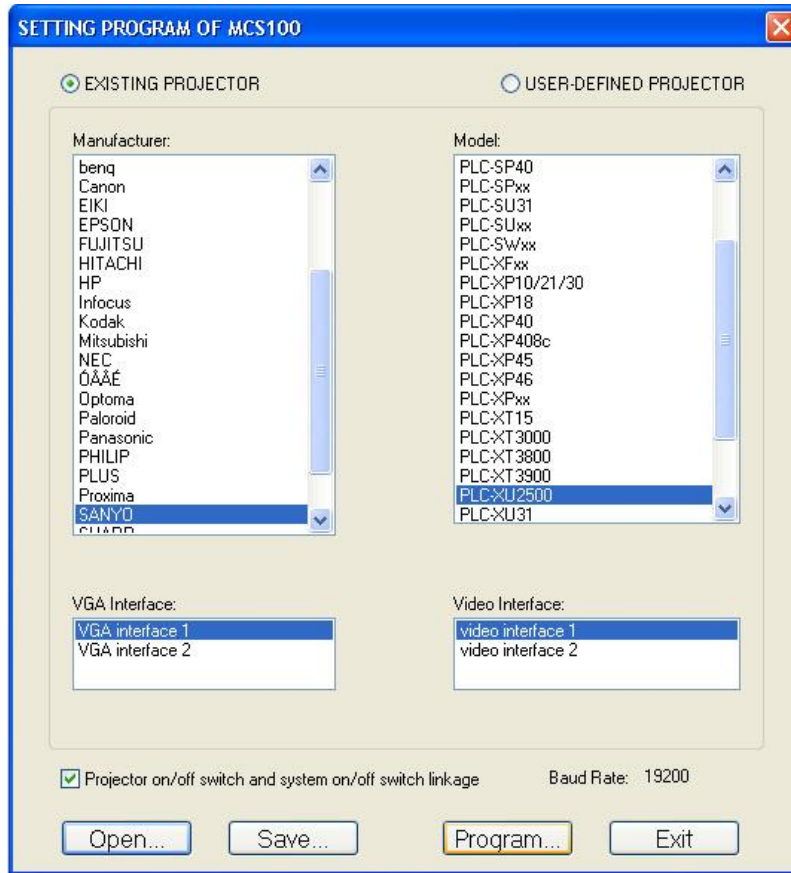

Fig. 7

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 control protocol yourself, using the projectors information. PCC will support Projectors which are controlled by either serial port or remote control. Please refer to your projectors operating manual or consult your dealer for the right control code.

Serial port Control

If your projector is controlled by a serial port, please select "the Serial Port" button. Next you have to define Baudrate, Data Bit, Verification Mode, Power-on command, Power-down command, Projection VGA command, Projection Video Command etc.

First select "USER-DEFINED PROJECTOR". Now the window shown in figure 8 on the next page will appear.
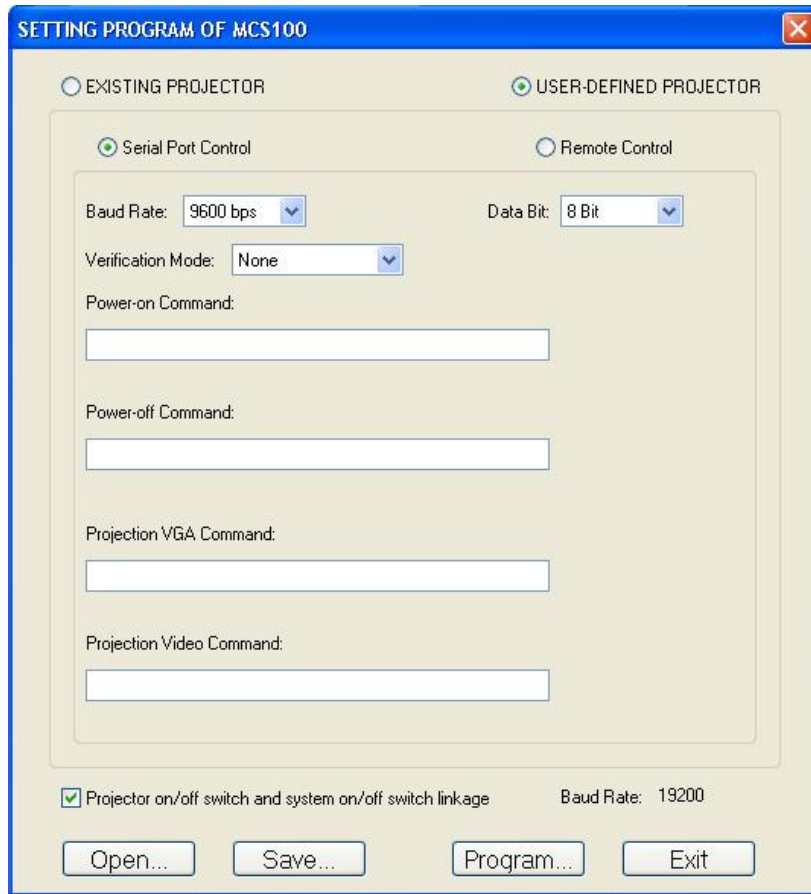
9

Fig. 8

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 ascII table for special characters. E.g. Blank-space is "20", the line feed character is "0A" and enter character is "0D".

Example 1

PC Control 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 vieuwer	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

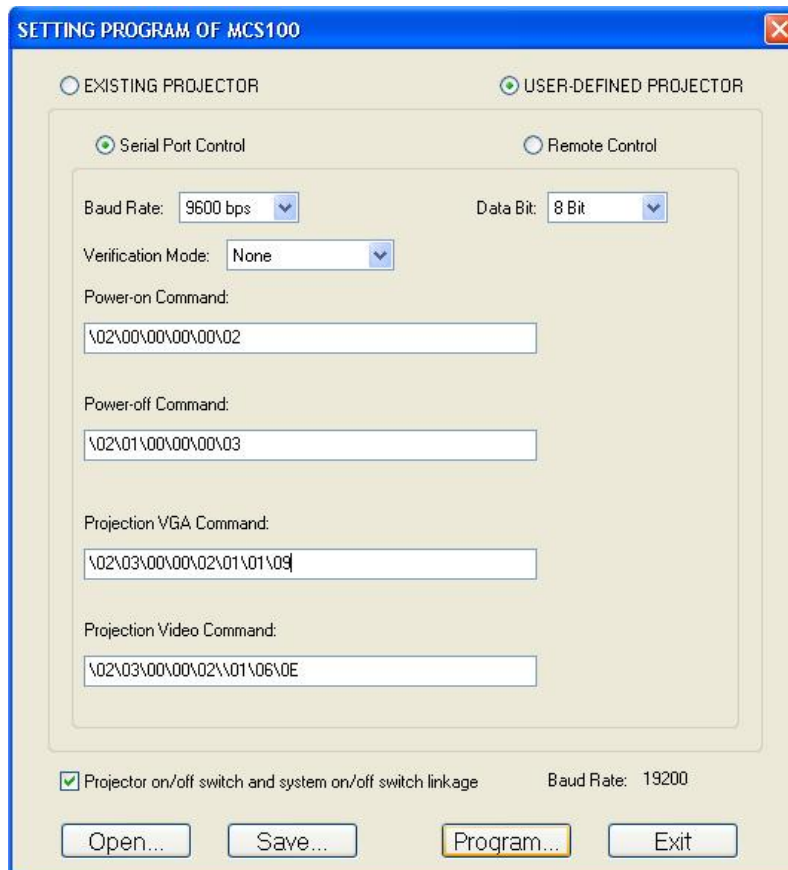Now the following parameters should be entered in window as shown in figure 8.

Fig. 9

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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).

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 10.
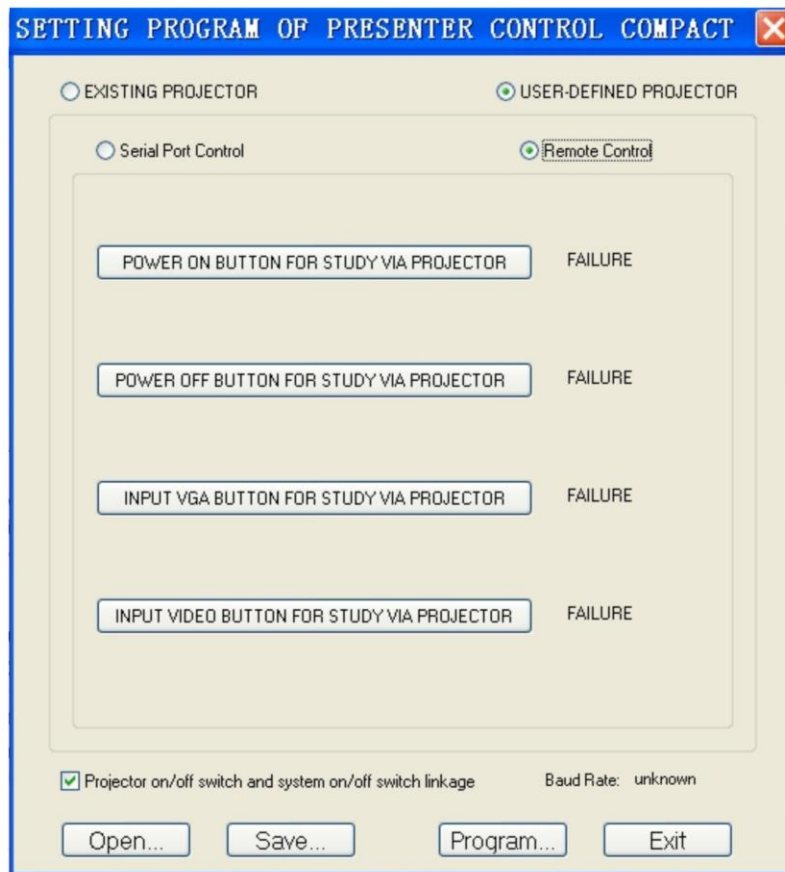

Fig. 10

Please make an "Infrared Learn Cable" (see appendix 1) and connect the wire as shown in figure 11 on the next page.
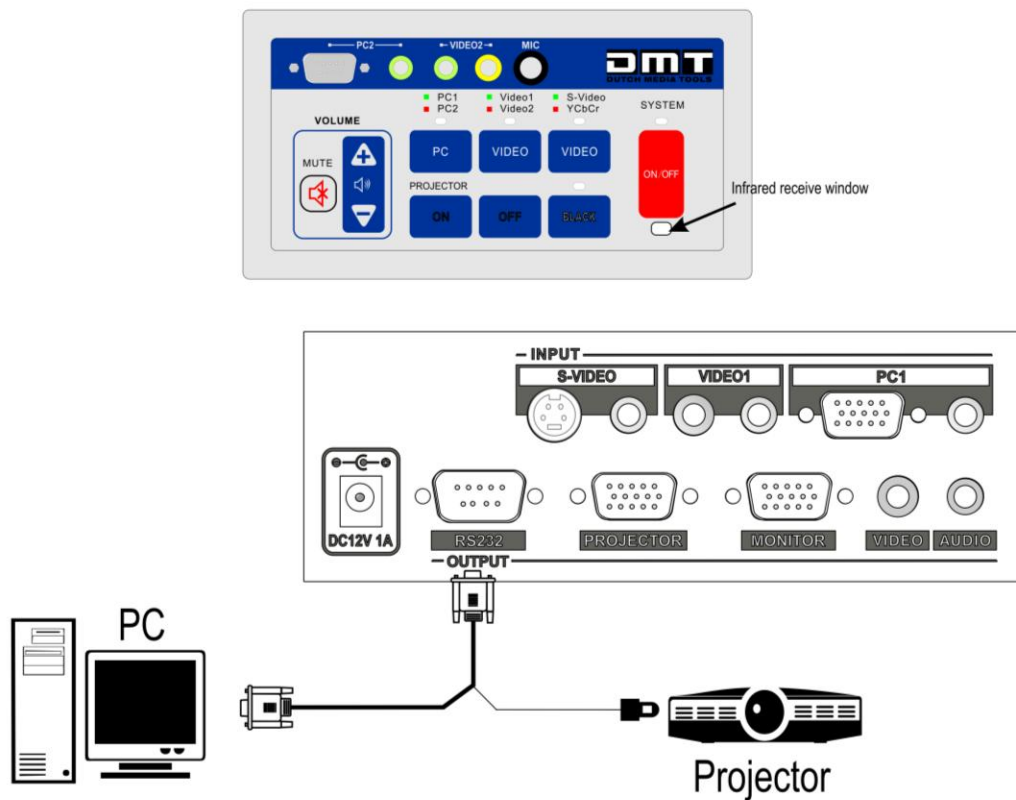
12

Fig. 11

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 infrared wire. You can observe the action of the projector to verify the correctness of the infrared code.

Please note following :

- The infrared wire should be well constructed. Please be sure that pin 2/3/5 on the serial port on the PC are connected with pin 2/3/5 of the RS232 port of the host according the figure in appendix 1.
- The infrared diode should be connected to pins 9/5 and correspond with Anode (+) and Cathode (-) respectively.
- Please place the Infrared LED before the Infrared receiving window of the projector accurately.

Attention

Please confirm that the power supply of the projector is kept on during the infrared study.
Before executing a certain function, please 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 10. Aim the remote control of the projector at the receiving window (3-6 cm distance) of the host's control panel.

Press the corresponding button (for the infrared function to study), The setup program will start a window for the button you pressed. See figure 12.
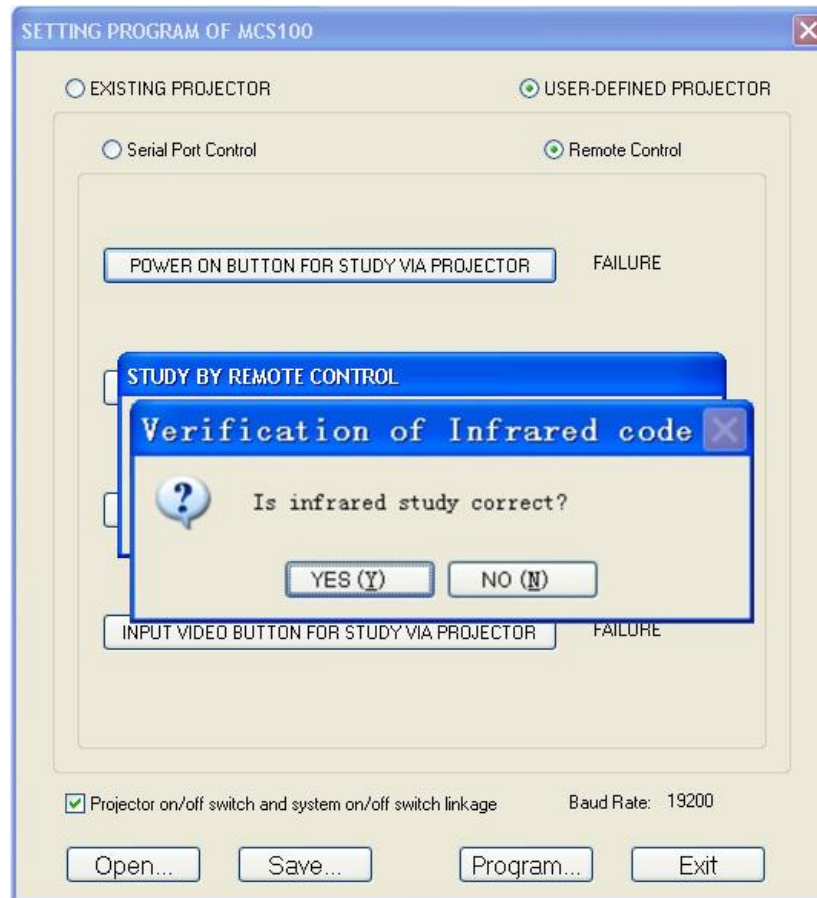
Fig.12

Fig. 13

After successful sampling of the infrared code, a pop up window shall appear and ask you to confirm. If the infrared cable is properly connected please check the projectors action. If ok, then confirm. In not ok, please press "No" and start all over again.

Possible causes for problems during infrared learning mode:

- Check the connections of the learning cable.
- Check if the if the infrared LED is correctly placed before the infrared receiving window of the projector.
- Incorrect sampling of infrared code and the projector's action does not correspond with the command.

Please let the host learn each function in sequence until full success.

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Saving the setup.

Please save the data for future maintenance or transform the data to those Hosts which have parallel configuration. See Figure 14.
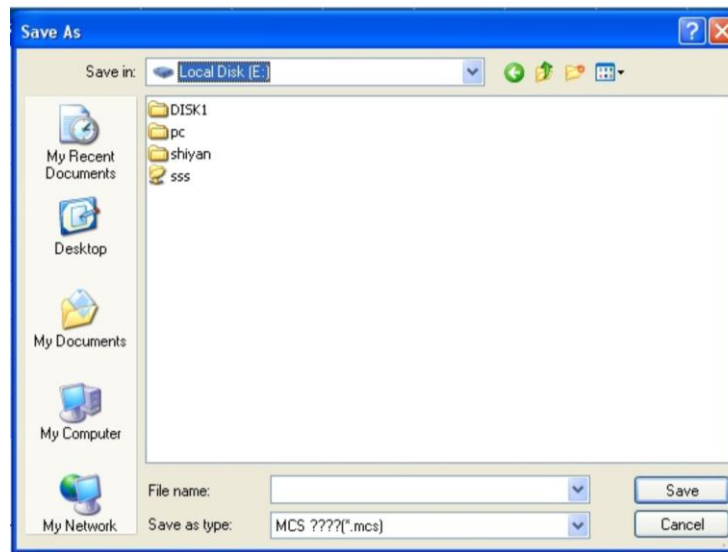

Fig.14

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 PCC will restart automatically. A pop-up window as shown in Figure 15 will appear. Confirm and the setup program will be closed.
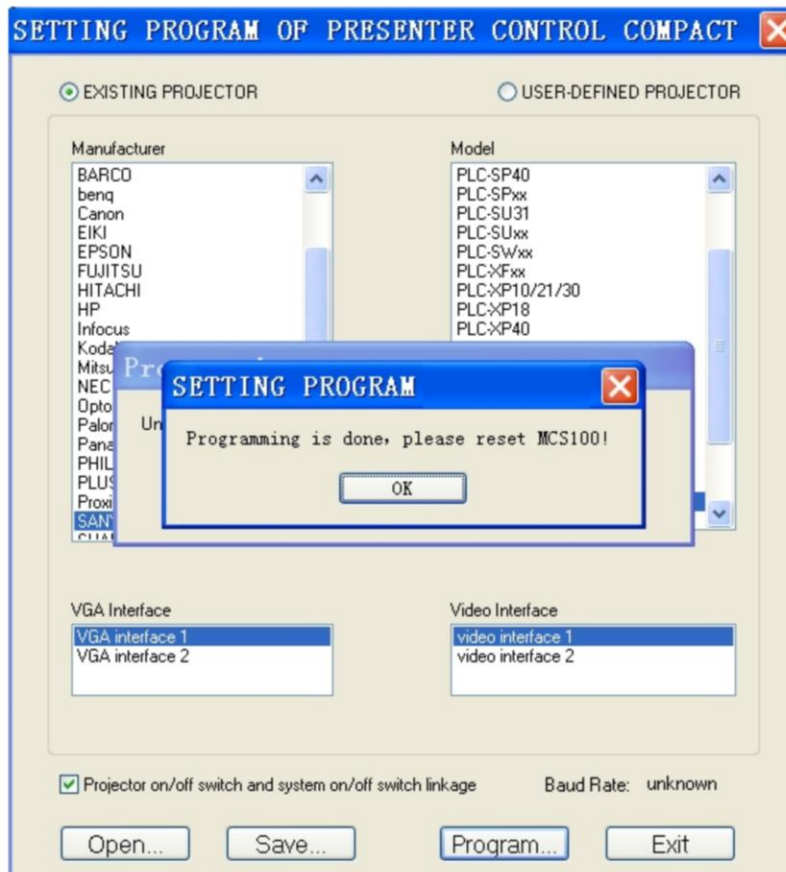

Fig. 15

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Technical Support

Troubleshooting hints:

The indication lamp on the control panel is not illuminated.
Possible causes:
1. No proper connection between the power adapter and the PCC.
2. No proper power supply from the power adapter.

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.
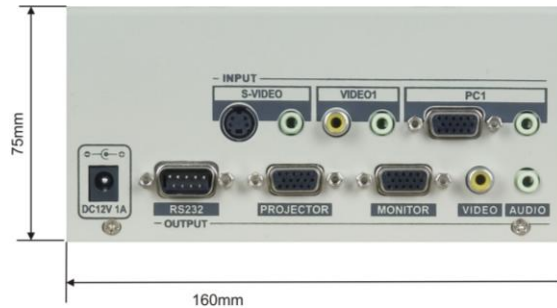
Product specification

Inputs/ Outputs:
PC2 VGA input
PC2 Audio input
Video 2 video input
Video 2 audio input
MIC input
PC1 VGA input
PC1 audio input
VIDEO 1 video input
VIDEO 1 audio input
S-VIDEO video input
S-video audio input
(YCbCr input optional)

VGA output
Video output
Audio output

System requirements:
Windows 2000/ XP, 128Mb
30Meg HD, RS232 serial port
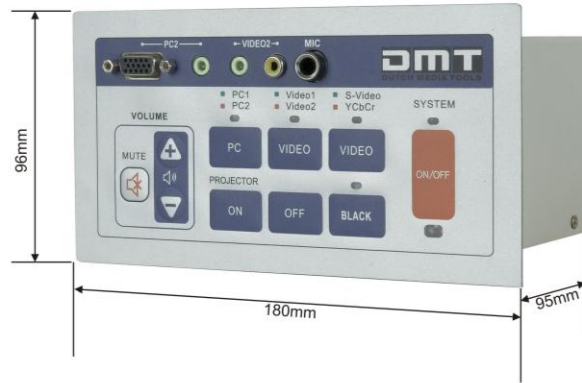
Design and product specifications are subject to change without prior notice.

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Website: www.Highlite.nl
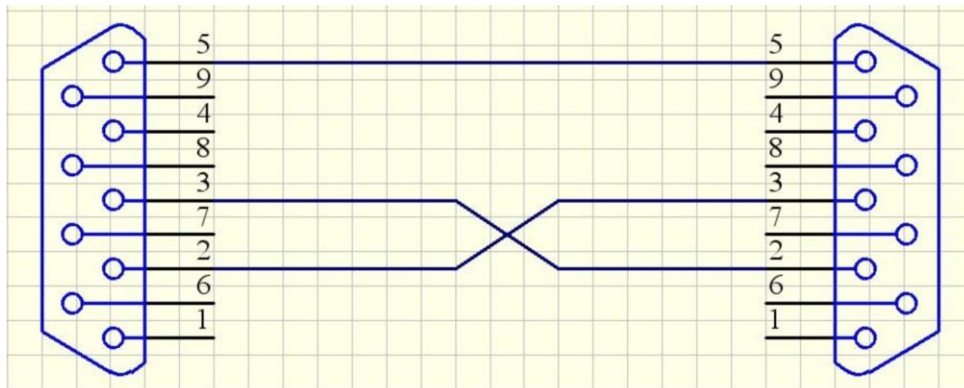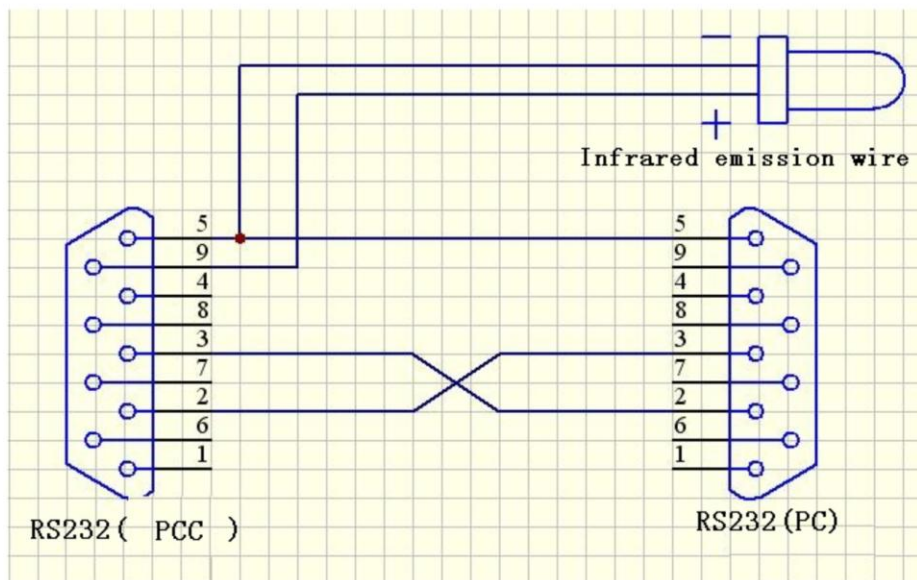Email: service@highlite.nl

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

Pin definition of programming cable.

Infrared learning cable.

Infrared emission wire

RS232 (PCC)

RS232 (PC)

Appendix 2 ASCI-table

sign	hex. code	sign	hex. code	sign	hex. code	sign	hex. code	sign	hex. code
null	0	7	37	n	6E	¥	A5	Ü	DC
start of heading	1	8	38	o	6F	¦	A6	Ý	DD
start of text	2	9	39	p	70	§	A7	Þ	DE
end of text	3	:	3A	q	71	¨	A8	ß	DF
end of transmit	4	;	3B	r	72	©	A9	à	E0
enquiry	5	<	3C	s	73	ª	AA	á	E1
acknowledge	6	=	3D	t	74	«	AB	â	E2
audible bell	7	>	3E	u	75	¬	AC	ã	E3
backspace	8	?	3F	v	76		AD	ä	E4
horizontal tab	9	@	40	w	77	®	AE	å	E5
line feed	0A	A	41	x	78	¯	AF	æ	E6
vertical tab	0B	B	42	y	79	°	B0	ç	E7
form feed	0C	C	43	z	7A	±	B1	è	E8
carriage return	0D	D	44	{	7B	²	B2	é	E9
shift out	0E	E	45	`|`	7C	³	B3	ê	EA
shift in	0F	F	46	}	7D	´	B4	ë	EB
data link escape	10	G	47	~	7E	µ	B5	ì	EC
device control 1	11	H	48		7F	¶	B6	í	ED
device control 2	12	I	49	€	80	·	B7	î	EE
device control 3	13	J	4A		81	¸	B8	ï	EF
device control 4	14	K	4B	‚	82	¹	B9	ð	F0
neg. Acknowledge	15	L	4C	ƒ	83	º	BA	ñ	F1
synchronous idle	16	M	4D	„	84	»	BB	ò	F2
end transm. block	17	N	4E	…	85	¼	BC	ó	F3
cancel	18	O	4F	†	86	½	BD	ô	F4
end of medium	19	P	50	‡	87	¾	BE	õ	F5
substitution	1A	Q	51	ˆ	88	¿	BF	ö	F6
escape	1B	R	52	‰	89	À	C0	÷	F7
file separator	1C	S	53	Š	8A	Á	C1	ø	F8
group separator	1D	T	54	‹	8B	Â	C2	ù	F9
record separator	1E	U	55	Œ	8C	Ã	C3	ú	FA
unit separator	1F	V	56		8D	Ä	C4	û	FB
space	20	W	57	Ž	8E	Å	C5	ü	FC
!	21	X	58		8F	Æ	C6	ý	FD
"	22	Y	59		90	Ç	C7	þ	FE
#	23	Z	5A	'	91	È	C8	ÿ	FF
$	24	[	5B	'	92	É	C9		
%	25	\	5C	"	93	Ê	CA		
&	26	]	5D	"	94	Ë	CB		
'	27	^	5E	•	95	Ì	CC		
(	28	_	5F	–	96	Í	CD		
)	29	`	60	—	97	Î	CE		
*	2A	a	61	˜	98	Ï	CF		
+	2B	b	62	™	99	Ð	D0		
,	2C	c	63	š	9A	Ñ	D1		
-	2D	d	64	›	9B	Ò	D2		
.	2E	e	65	œ	9C	Ó	D3		
/	2F	f	66		9D	Ô	D4		
0	30	g	67	ž	9E	Õ	D5		
1	31	h	68	Ÿ	9F	Ö	D6		
2	32	i	69		A0	×	D7		
3	33	j	6A	¡	A1	Ø	D8		
4	34	k	6B	¢	A2	Ù	D9		
5	35	l	6C	£	A3	Ú	DA		
6	36	m	6D	¤	A4	Û	DB		