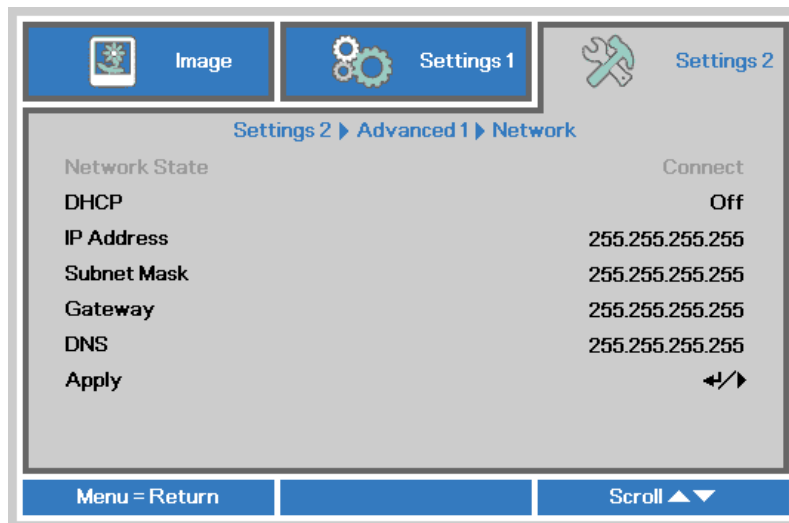
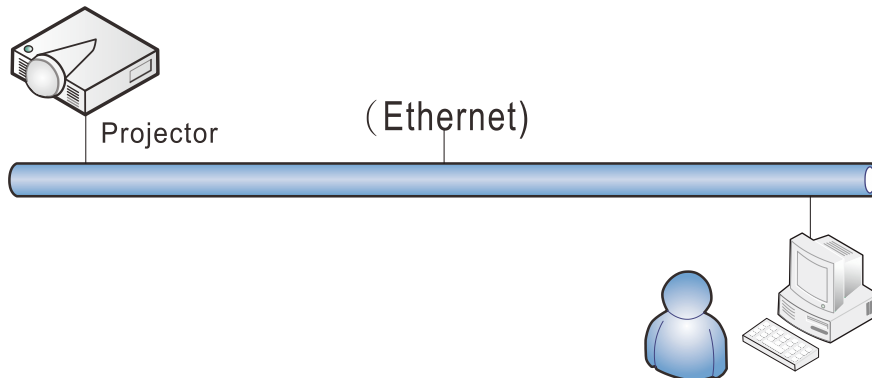


## Network



ITEM	DESCRIPTION
Network State	Displays the network connection status.
DHCP	Press ◀▶ to turn DHCP On or Off. <b>Note:</b> If you select DHCP Off, complete the IP Address, Subnet Mask, Gateway, and DNS fields.
IP Address	Enter a valid IP address if DHCP is turned off.
Subnet Mask	Enter a valid Subnet Mask if DHCP is turned off.
Gateway	Enter a valid Gateway address if DHCP is turned off.
DNS	Enter a valid DNS name if DHCP is turned off.
Apply	Press ◀ (Enter) / ▶ to confirm settings.

## **LAN\_RJ45**



### *Wired LAN Terminal functionalites*

Remote control and monitoring of a projector from a PC (or Laptop) via wired LAN is also possible. Compatibility with Crestron / AMX (Device Discovery) / Extron control boxes enables not only collective projector management on a network but also management from a control panel on a PC (or Laptop) browser screen.

- ★ Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.
- ★ Extron is a registered trademark of Extron Electronics, Inc. of the United States.
- ★ AMX is a registered trademark of AMX LLC of the United States.
- ★ PJLink applied for trademark and logo registration in Japan, the United States of America, and other countries by JBMIA.

### *Supported External Devices*

This projector is supported by the specified commands of the Crestron Electronics controller and related software (ex, RoomView ®).

<http://www.crestron.com/>

This projector is supported by AMX ( Device Discovery ).

<http://www.amx.com/>

This projector is compliant to support Extron device(s) for reference.

<http://www.extron.com/>

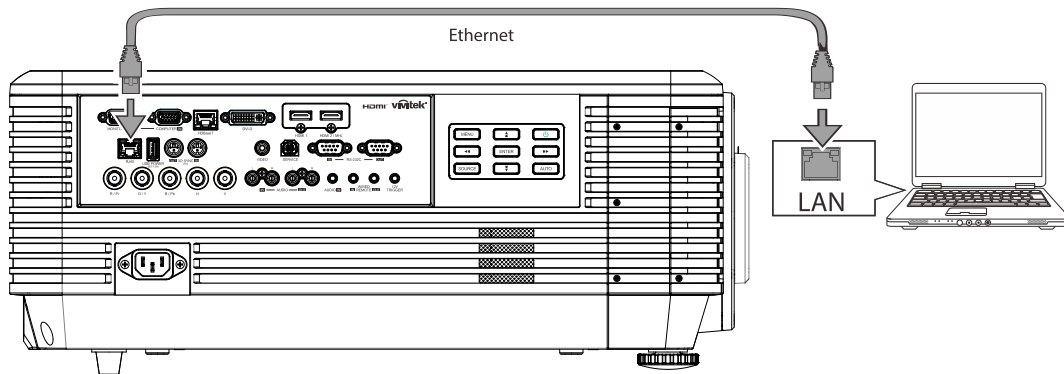
This projector supports all commands of PJLink Class1 (Version 1.00).

<http://pjlink.jbmia.or.jp/english/>

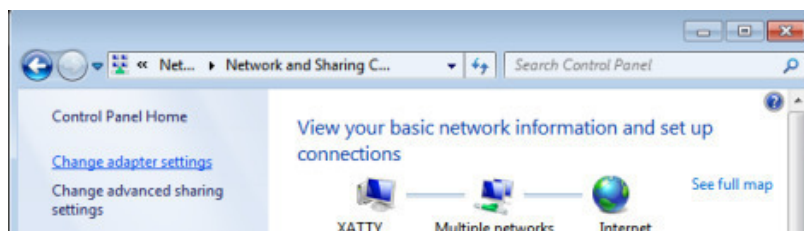
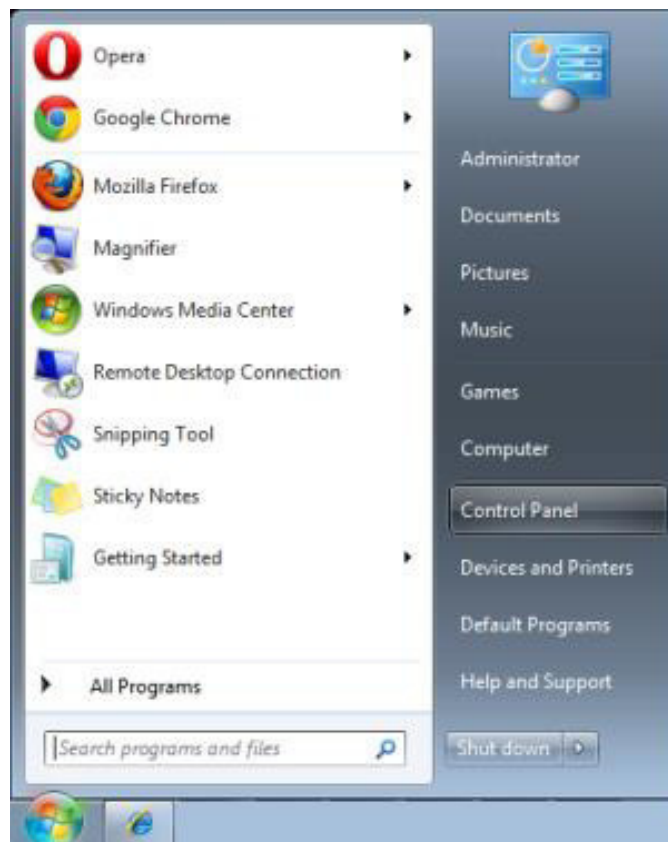
For more detail of information about the diverse types of external devices which can be connected to the LAN/RJ45 port and remote/control the projector, as well as the related control commands supporting for each external device, kindly please get contact with the Support-Service team directly.

## LAN RJ45

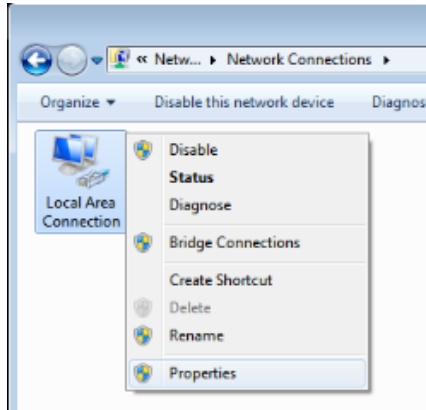
1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (Laptop).



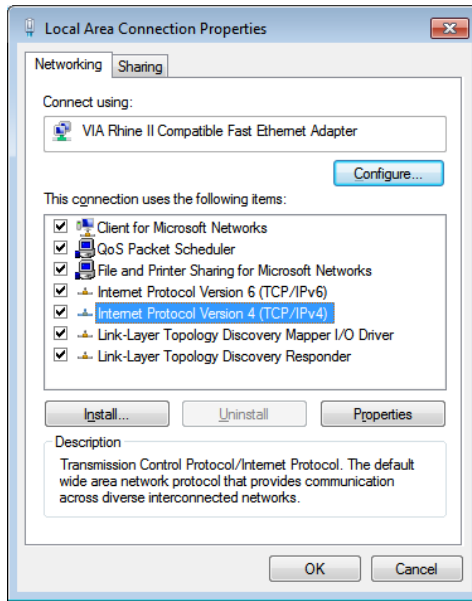
2. On the PC (Laptop), select **Start** → **Control Panel** → **Network and Internet**.



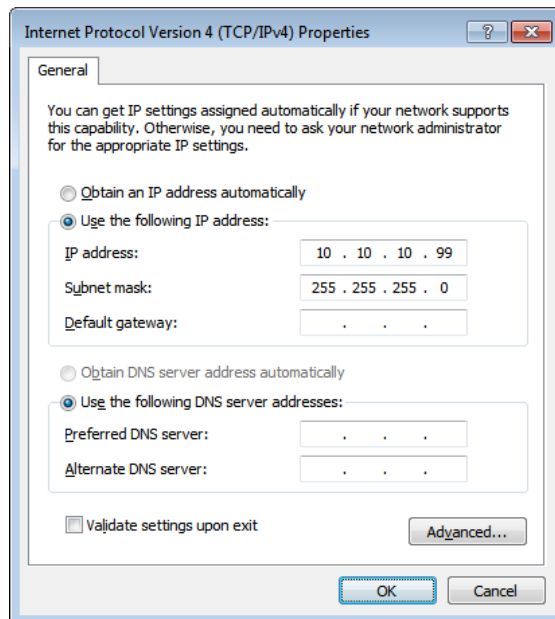
3. Right-click on **Local Area Connection**, and select **Properties**.



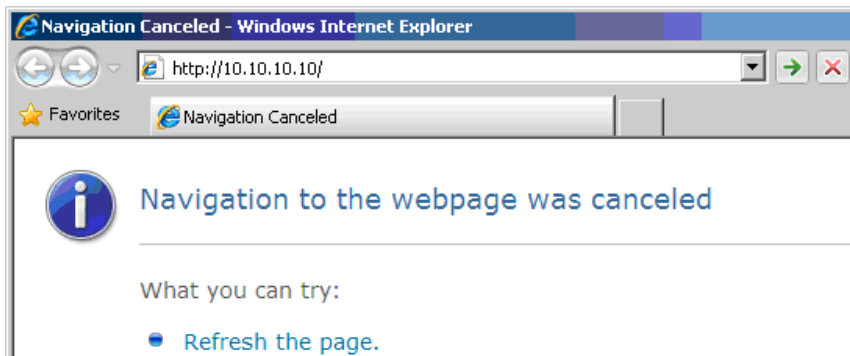
4. In the **Properties** window, select the **Networking** tab, and select **Internet Protocol (TCP/IP)**.
5. Click **Properties**.



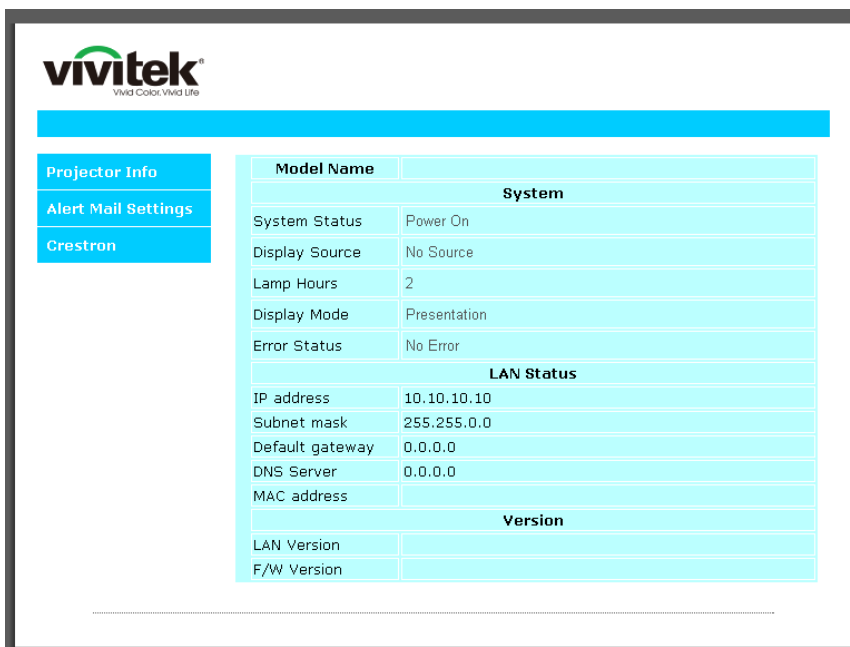
6. Click **Use the following IP address** and fill in the IP address and Subnet mask, then click **OK**.



7. Press the **Menu** button on the projector.
8. Select **Settings2** → **Advanced1** → **Network**
9. After getting into **Network**, input the following:
  - ▶ DHCP: Off
  - ▶ IP Address: 10.10.10.10
  - ▶ Subnet Mask: 255.255.255.0
  - ▶ Gateway: 0.0.0.0
  - ▶ DNS Server: 0.0.0.0
10. Press **↵** (Enter) / **▶** to confirm settings.  
 Open a web browser  
 (for example, Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher).



11. In the Address bar, input the IP address: 10.10.10.10.
12. Press **↵** (Enter) / **▶**.  
 The projector is setup for remote management. The LAN/RJ45 function displays as follows.





**CRESTRON** Expansion Options

Crestron Control	Projector	User Password
IP Address <input style="width: 100%;" type="text"/>	Projector Name <input style="width: 100%;" type="text" value="PJ01"/>	<input type="checkbox"/> Usr Enabled
IP ID <input style="width: 100%;" type="text"/>	Location <input style="width: 100%;" type="text" value="RM01"/>	Password <input style="width: 100%;" type="text"/>
Control Port <input style="width: 100%;" type="text"/>	Assigned To <input style="width: 100%;" type="text" value="Sir"/>	Confirmed <input style="width: 100%;" type="text"/>
<input type="button" value="Control Set"/>	<input type="button" value="Set"/>	<input type="button" value="Usr Set"/>
	Network Config <input type="checkbox"/> DHCP Enabled	Admin Password
	IP Address <input style="width: 100%;" type="text" value="10.10.10.10"/>	<input type="checkbox"/> Adm Enabled
	Subnet Mask <input style="width: 100%;" type="text" value="255.255.255.0"/>	Password <input style="width: 100%;" type="text"/>
	Default Gateway <input style="width: 100%;" type="text" value="0.0.0.0"/>	Confirmed <input style="width: 100%;" type="text"/>
	DNS Server <input style="width: 100%;" type="text" value="0.0.0.0"/>	<input type="button" value="Adm Set"/>
	<input type="button" value="Net Set"/>	
	<input type="button" value="Tools Exit"/>	

CATEGORY	ITEM	INPUT-LENGTH
Crestron Control	IP Address	15
	IP ID	3
	Port	5
Projector	Projector Name	10
	Location	10
	Assigned To	10
Network Configuration	DHCP (Enabled)	(N/A)
	IP Address	15
	Subnet Mask	15
	Default Gateway	15
	DNS Server	15
User Password	Enabled	(N/A)
	New Password	10
	Confirm	10
Admin Password	Enabled	(N/A)
	New Password	10
	Confirm	10

For more information, please visit <http://www.crestron.com>.

### Preparing Email Alerts

1. Make sure that user can access the homepage of LAN RJ45 function by web browser (for ex-ample, Microsoft Internet Explorer v6.01/v8.0).
2. From the Homepage of LAN/RJ45, click **Alert Settings**.

The screenshot shows the Vivitek web interface. On the left, a navigation menu includes 'Projector Info', 'Alert Mail Settings' (highlighted with a red circle), and 'Crestron'. The main content area displays a table of system and LAN status information.

Model Name	
<b>System</b>	
System Status	Power On
Display Source	No Source
Lamp Hours	2
Display Mode	Presentation
Error Status	No Error
<b>LAN Status</b>	
IP address	10.10.10.10
Subnet mask	255.255.0.0
Default gateway	0.0.0.0
DNS Server	0.0.0.0
MAC address	
<b>Version</b>	
LAN Version	
F/W Version	

3. By default, these input boxes in **Alert Settings** are blank.

The screenshot shows the 'Send E-Mail' configuration page in the Vivitek web interface. The left navigation menu is the same as in the previous screenshot. The main content area is titled 'Send E-Mail' and contains a form for configuring email alerts.

Enter the appropriate settings in the fields below:  
(Your SMTP server may not require a user name or password.)

**SMTP Server:**  **Port:**

**User Name:**

**Password:**

**From:**

**To:**

**CC:**

**E-mail Alert Options:**

**Fan lock :**  **Over\_Heat:**

**Case Open:**  **Lamp Fail:**

**Lamp Hours Over:**  **Filter Hours Over:**

**Weekly Report:**

4. For Sending alert mail, input the following:

The **SMTP** field is the mail server for sending out email (SMTP protocol). This is a required field.

The **To** field is the recipient's email address (for example, the projector administrator). This is a required field.

The **Cc** field sends a carbon copy of the alert to the specified email address. This is an optional field (for example, the projector administrator's assistant).

The **From** field is the sender's email address (for example, the projector administrator). This is a required field.

Select the alert conditions by checking the desired boxes.

**vivitek**  
Vivid Color. Vivid Life.

**Projector Info**  
**Alert Mail Settings**  
Crestron

### Send E-Mail

Enter the appropriate settings in the fields below:  
(Your SMTP server may not require a user name or password.)

**SMTP Server:**  **Port:**

**User Name:**

**Password:**

**From:**

**To:**

**CC:**

**E-mail Alert Options:**

<b>Fan lock :</b> <input checked="" type="checkbox"/>	<b>Over_Heat:</b> <input checked="" type="checkbox"/>
<b>Case Open:</b> <input checked="" type="checkbox"/>	<b>Lamp Fail:</b> <input checked="" type="checkbox"/>
<b>Lamp Hours Over:</b> <input checked="" type="checkbox"/>	<b>Filter Hours Over:</b> <input checked="" type="checkbox"/>
<b>Weekly Report:</b> <input type="checkbox"/>	

**Note:** Fill in all fields as specified. User can click **Send Test Mail** to test what setting is correct. For successful sending an e-mail alert, you must select alert conditions and enter a correct e-mail address.



### RS232 by Telnet Function

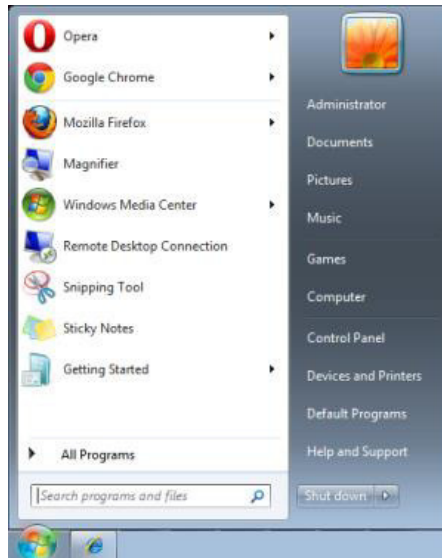
Besides projector connected to RS232 interface with “Hyper-Terminal” communication by dedicated RS232 command control, there is alternative RS232 command control way, so called “RS232 by TELNET” for LAN/RJ45 interface.

#### Quick Start-Guide for “RS232 by TELNET”

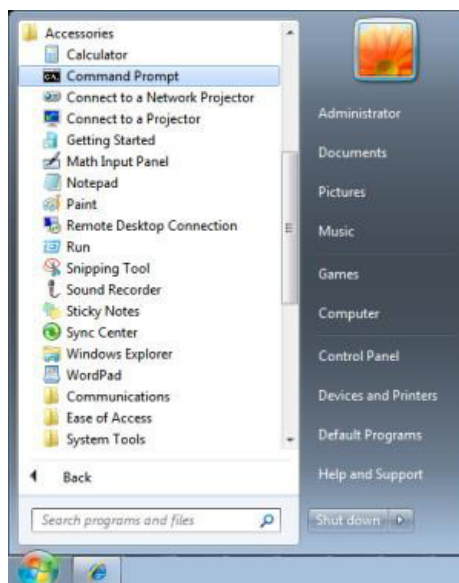
Check and get the IP-Address on OSD of the projector.

Make sure that laptop/PC can access the web-page of the projector.

Make sure that “Windows Firewall” setting to be disabled in case of “TELNET” function filtering out by laptop/PC.



Start => All Programs => Accessories => Command Prompt



Input the command format like the below:

**telnet tt.ttt.xxx.yyy.zzz 23** (“Enter” key pressed)

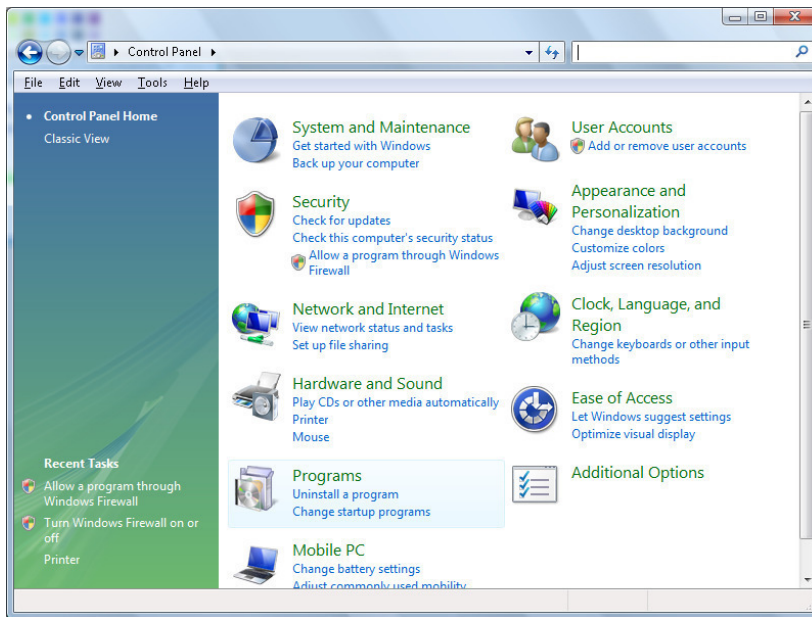
(**tt.ttt.xxx.yyy.zzz**: IP-Address of the projector)

If Telnet-Connection ready, and user can have RS232 command input, then “Enter” key pressed, the RS232 command will be workable.

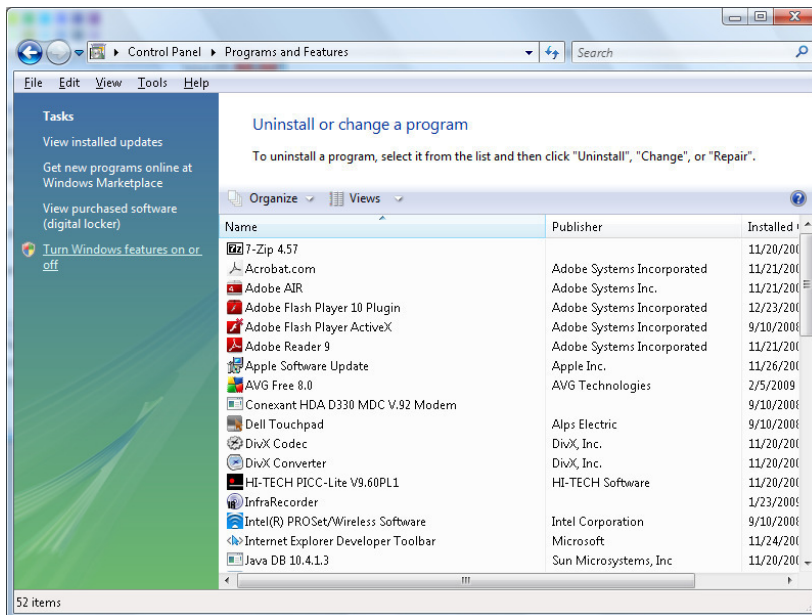
### How to have TELNET enabled in Windows VISTA / 7 / 8

By default installation for Windows VISTA / 7 / 8, “TELNET” function is not included. But end-user can have it by way of “Turn Windows features On or Off” to be enabled.

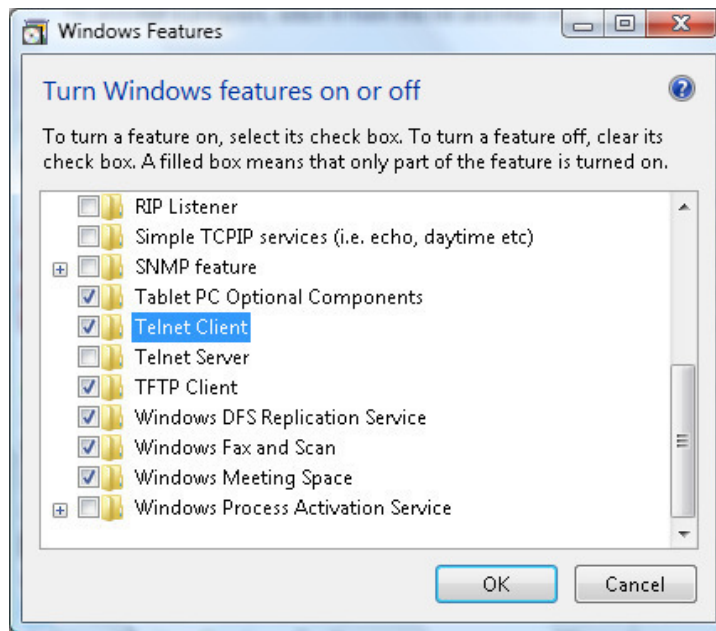
Open “Control Panel” in Windows VISTA / 7 / 8



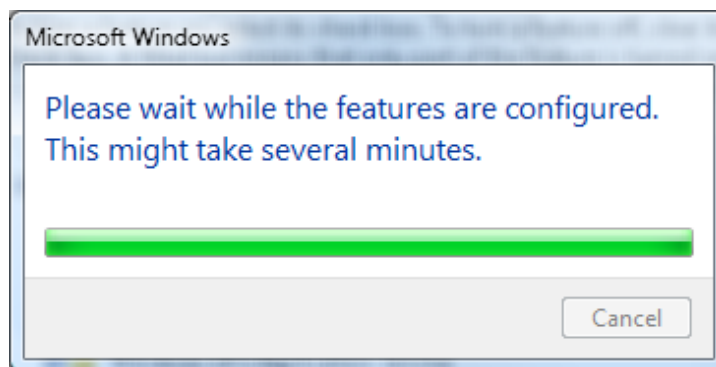
Open “Programs”



Select “Turn Windows features on or off” to open



Have “Telnet Client” option checked, then press “OK” button.



### Specsheet for “RS232 by TELNET” :

1. Telnet: TCP
2. Telnet port: 23  
(for more detail, kindly please get contact with the service agent or team)
3. Telnet utility: Windows “TELNET.exe” (console mode)
4. Disconnection for RS232-by-Telnet control normally: Close Windows Telnet utility directly after TELNET connection ready
5. Limitation 1 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.  
Limitation 2 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.  
Limitation 3 for Telnet-Control: Minimum delay for next RS232 command must be more than 200 (ms).  
(\* , In Windows built-in “TELNET.exe” utility, “Enter” key pressed will have “Carriage-Return” and “New-Line” code.)

## APPENDIX I

## Communication parameter setup

You can use the serial control command to input commands for projector control or retrieve its operational data through Windows client terminal software,

e.g. Hyper Terminal, with ASCII characters. You need to set up the following communication parameters in advance:

Item	Parameter:
Bit per Second	9600 bps
Data Bit	8-bit
Parity	None
Stop Bit	1
Flow Control	None

*Note:*

? → *Get*

= → *Set*

+ → *increase 1 step*

- → *Decrease 1 step*

**EX:**

ASCII	Function
Op contrast ?	Get Brightness value
Op contrast = 58	Set Brightness value = 58
Op contrast +	Increase Contrast 1 step
Op contrast -	Decrease Contrast 1 step

OSD Function	ASCII	Settings/Return Values
Picture Mode	Op pic.mode	? = 0:Presentation 1:Bright 2:Game 3:Movie 4:Vivid 5:TV 6:sRGB 8:DICOM SIM 9:User1 10:User2
Input Select	Op input.sel	? = 1 = VGA1 3 = DVI 4 = Video 6 = HDMI 1 7 = BNC 9 = HDMI 2 15 = HDBASET

OSD Function	ASCII	Settings/Return Values
Auto Power Off	Op auto.powoff	? = 0-180
Auto Power On	Op auto.powon	? = 0 = Off 1 = On
Blank Screen	Op no.signal	? = 0 = Black 1 = Red 2 = Green 3 = Blue 4 = White
Contrast	Op contrast	? = + - 0-100
Brightness	Op bright	? = + - 0-100
Saturation	Op saturat	? = + -- 0-100
Hue	Op tint	? = + - 0-100
Sharpness	Op sharp	? = + - 0-31
Color Temperature	Op color.temp	? = 0 = Warm 1 = Normal 2 = Cold
White Balance /Red Offset	Op red.offset	? = + - -100 ~ +100
White Balance /Green Offset	Op green.offset	? = + - -100 ~ +100
White Balance /Blue Offset	Op blue.offset	? = + - -100 ~ +100
White Balance /Red Gain	Op red.gain	? = + - 0-200
White Balance /Green Gain	Op green.gain	? = + - 0-200
White Balance /Blue Gain	Op blue.gain	? = + - 0-200
HSG/Red Gain	Op hsg.r.gain	? = + - 0-100
HSG/Green Gain	Op hsg.g.gain	? = + - 0-100

OSD Function	ASCII	Settings/Return Values
HSG/Blue Gain	Op Hsg.b.gain	? = + - 0-100
HSG/Cyan Gain	Op hsg.c.gain	? = + - 0-100
HSG/Magenta Gain	Op hsg.m.gain	? = + - 0-100
HSG/Yellow Gain	Op hsg.y.gain	? = + - 0-100
HSG/Red/Saturation	Op hsg.r.sat	? = + - 0-100
HSG/Green/Saturation	Op hsg.g.sat	? = + - 0-100
HSG/Blue/Saturation	Op Hsg.b.sat	? = + - 0-100
HSG/Cyan/Saturation	Op hsg.c.sat	? = + - 0-100
HSG/Magenta/Saturation	Op hsg.m.sat	? = + - 0-100
HSG/Yellow/Saturation	Op Hsg.y.sat	? = + - 0-100
HSG/Red/Hue	Op hsg.r.hue	? = + - 0-100
HSG/Green/Hue	Op hsg.g.hue	? = + - 0-100
HSG/Blue/Hue	Op Hsg.b. hue	? = + - 0-100
HSG/Cyan/Hue	Op hsg.c. hue	? = + - 0-100
HSG/Magenta/Hue	Op hsg.m. hue	? = + - 0-100
HSG/Yellow/Hue	Op Hsg.y. hue	? = + - 0-100

OSD Function	ASCII	Settings/Return Values	
HSG/White/Red Gain	Op hsg.wr.gain	? = + -	0-100
HSG/White/Green Gain	Op hsg.wg.gain	? = + -	0-100
HSG/White/Blue Gain	Op Hsg.wb.gain	? = + -	0-100
Aspect Ratio	Op aspect	? =	0 = Fill 1 = 4:3 2 = 16:9 3 = LetterBox 4 = Native 5 = 2.35:1
VGA Frequency	Op h.phase	? = + -	0-31
VGA Tracking	Op h.total	? = + -	-5 ~ +5
VGA H Position	Op h.pos	? = + -	-5 ~ +5 -100 ~ +100(Auto Sync Off)
VGA V Position	Op v.pos	? = + -	-5 ~ +5 -100 ~ +100(Auto Sync Off)
Auto Sync	Op auto.img		(execute)
Zoom	Op zoom	? =	-10 ~ +10
Lamp Mode	Op Lamp.mode	? =	0: Normal 1: Eco 2: Eco plus 3: Dimming 4: Extere dimming 5: Custom
Fan Speed	Op altitude	? =	0 = Normal 1 = High
Lamp 1 Statu	Op lamp1.stat	? =	0 = Off 1 = On
Projection Mode	Op proj.mode	? =	0 = Desktop Front 1 = Desktop Rear 2 = Ceiling Front 3 = Ceiling Rear
Gamma	Op gamma	? =	0 = 1.8 1 = 2.0 2 = 2.2 3 = 2.4 4 = B&W 5 = Linear

OSD Function	ASCII	Settings/Return Values	
Test Pattern	Op pattern	? =	0 = None 1 = RGB Ramps 2 = Color Bars 3 = Setp Bars 4 = Checkboard 5 = Grid 6 = Horizontal Lines 7 = Vertical Lines 8 = Diagonal Lines 9 = Horizontal Ramp 10 = Vertical Ramp 11 = White 12 = Red 13 = Green 14 = Blue 15 = Black
V Keystone	Op v.keystone	? = + -	-30 ~ 30
H Keystone	Op h.keystone	? = + -	-25 ~ 25
Network/IP Adress	Op net.ipaddr	? =	<string>
Network/Subnet	Op net.subnet	? =	<string>
Network/Gateway	Op net.gateway	? =	<string>
Network/DHCP	Op net.dhcp	? =	0 = Off 1 = On
Menu Position	Op menu.pos	? =	0 ~ 4
Startup Logo	Op startup.logo	? =	0 = STD 1 = Black 2 = Blue
Auto Search	Op auto.src	? =	0 = Off 1 = On
Language	Op lang	? =	0 = English 1 = French 2 = German 3 = Spanish 4 = Portugues 5 = Simplified Chinese 6 = Traditional Chinese 7 = Italian 8 = Norwegian 9 = Swedish 10 = Dutch 11 = Russian 12 = Polish 13 = Finnish 14 = Greek 15 = Korean 16 = Hungarian 17 = Czech 18 = Arabic 19 = Turkish 20 = Vietnamese 21 = Japanese 22 = Thai 23 = Farsi 24 = Hebrew 25 = Danish 26 = French Canadian



OSD Function	ASCII	Settings/Return Values	
Model	Op model	?	<String>
Serial Number	Op ser.no	?	<String>
Software Version	Op sw.ver	?	<String>
Active Source	Op Act.src	?	1 = VGA1 3 = DVI 4 = Video 6 = HDMI 1 7 = BNC 9 = HDMI 2 15 = HDBASET
Pixel Clock	Op pixel.clock	?	<String>
Signal Format	Op signal	?	<String>
H Refresh Rate	Op h.refresh	?	<String>
V Refresh Rate	Op v.refresh	?	<String>
Lamp1.Time	Op lamp1.hours	?	<String>
Lamp1 Time Reset	Op Lamp1.reset		(execute)
Power On Time	Op proj.runtime	?	<String>
Factory Reset	Op fact.reset		(execute)
Blank	Op Picture.mute	? =	0 = Off 1 = On
Power On	Op power.on		(execute)
Power Off	Op power.off		(execute)
Projector Status	Op status	?	0 = Reset 1 = Standby 2 = Active 3 = cooling
Low Power Mode	Op lowpower.mode	? =	1 = On 2 = On By Lan
3D Sync	Op threed.mode	? =	0 = Off 1 = DLP-Link 2 = IR
3D Sync Invert	Op threed.sync.invert	? =	0 = Off 1 = On
3D Sync Format	Op threed.format	? =	0 = Frame Sequential 1 = Top / Bottom 2 = Side by side 3 = Frame Packing

**Note:**

The projector returns string "NA" when the input command does not apply to current projector status or setup.