APPENDIX I

RS-232C Protocol

RS232 Setting

Baud rate:	9600
Parity check:	None
Data bit:	8
Stop bit:	1
Flow Control	None
UART16550 FIFO	Disable

Minimum delay for next command: 1ms

Control Command Structure

	Header code	Command code	Data code	End code
HEX		Command	Data	0Dh
ASCII	'V'	Command	Data	CR

Operation Command

Note:

"CR" mean Carriage Return

XX=00-98, projector's ID, XX=99 is for all projectors

Return Result P=Pass / F=Fail

n: 0:Disable/1: Enable/Value(0~9999)

	Command Group 00			
ASCII	HEX	Function	Description	Return Result
VXXS0001	56h Xh Xh 53h 30h 30h 30h 31h 0Dh	Power On		P/F
VXXS0002	56h Xh Xh 53h 30h 30h 30h 32h 0Dh	Power Off		P/F
VXXS0003	56h Xh Xh 53h 30h 30h 30h 33h 0Dh	Resync		P/F
VXXG0004	56h Xh Xh 47h 30h 30h 30h 34h 0Dh	Get Light Hours		Pn/F
VXXG0005	56h Xh Xh 47h 30h 30h 30h 35h 0Dh	Get Air filter timer	n=0~60000	Pn/F
VXXS0006	56h Xh Xh 53h 30h 30h 30h 36h 0Dh	System Reset		P/F
VXXG0007	56h Xh Xh 47h 30h 30h 30h 37h 0Dh	Get System Status	0:Reset 1:Standby 2:Operation 3:Cooling	Pn/F
VXXG0008	56h Xh Xh 47h 30h 30h 30h 38h 0Dh	Get F/W Version		Pn/F

	Comma	nd Group 01		
ASCII	HEX	Function	Description	Return Value
VXXG0101	56h Xh Xh 47h 30h 31h 30h 31h 0Dh	Get Brightness	n=0~100	Pn/F
VXXS0101n	56h Xh Xh 53h 30h 31h 30h 31h nh 0Dh	Set Brightness	n=0~100	P/F
VXXG0102	56h Xh Xh 47h 30h 31h 30h 32h 0Dh	Get Contrast	n=0~100	Pn/F
VXXS0102n	56h Xh Xh 53h 30h 31h 30h 32h nh 0Dh	Set Contrast	n=0~100	P/F
VXXG0103	56h Xh Xh 47h 30h 31h 30h 33h 0Dh	Get Color	n=0~100	Pn/F
VXXS0103n	56h Xh Xh 53h 30h 31h 30h 33h nh 0Dh	Set Color	n=0~100	P/F
VXXG0104	56h Xh Xh 47h 30h 31h 30h 34h 0Dh	Get Tint	n=0~100	Pn/F
VXXS0104n	56h Xh Xh 53h 30h 31h 30h 34h nh 0Dh	Set Tint	n=0~100	P/F
VXXG0105	56h Xh Xh 47h 30h 31h 30h 35h 0Dh	Get Sharpness	0~31	Pn/F
VXXS0105n	56h Xh Xh 53h 30h 31h 30h 35h nh 0Dh	Set Sharpness	0~31	P/F
VXXG0106	56h Xh Xh 47h 30h 31h 30h 36h 0Dh	Get Color Temperature	0=Warm 1=Normal 2=Cold	Pn/F
VXXS0106n	56h Xh Xh 53h 30h 31h 30h 36h nh 0Dh	Set Color Temperature	0=Warm 1=Normal 2=Cold	P/F
VXXG0107	56h Xh Xh 47h 30h 31h 30h 37h 0Dh	Get Gamma	0:1.8 1:2.0 2:2.2 3:2.4 4:B&W 5.Linear	Pn/F
VXXS0107n	56h Xh Xh 53h 30h 31h 30h 37h nh 0Dh	Set Gamma	0:1.8 1:2.0 2:2.2 3:2.4 4:B&W 5.Linear	P/F
VXXG0108	56h Xh Xh 47h 30h 31h 30h 38h 0Dh	Get Display Mode	0:Presentation 1:Bright 2:Game 3:Movie 4.Vivid 5:TV 6:sRGB 8:DICOM SIM 9:User 10:User2	Pn/F
VXXS0108n	56h Xh Xh 53h 30h 31h 30h 38h nh 0Dh	Set Display Mode	0:Presentation 1:Bright 2:Game 3:Movie 4.Vivid 5:TV 6:sRGB 8:DICOM SIM 9:User 10:User2	P/F

	Command Group 02			
ASCII	HEX	Function	Description	Return Value
VXXS0201	56h Xh Xh 53h 30h 32h 30h 31h 0Dh	Select RGB		P/F
VXXS0203	56h Xh Xh 53h 30h 32h 30h 33h 0Dh	Select DVI		P/F
VXXS0204	56h Xh Xh 53h 30h 32h 30h 34h 0Dh	Select Video		P/F
VXXS0206	56h Xh Xh 53h 30h 32h 30h 36h 0Dh	Select HDMI		P/F
VXXS0207	56h Xh Xh 53h 30h 32h 30h 37h 0Dh	Select BNC		P/F
VXXS0209	56h Xh Xh 53h 30h 32h 30h 39h 0Dh	Select HDMI 2		P/F
VXXS0212	56h Xh Xh 53h 30h 32h 31h 32h 0Dh	Select HDMI 3/MHL		P/F
VXXS0215	56h Xh Xh 53h 30h 32h 31h 35h 0Dh	Select HDBaseT		P/F
VXXG0220	56h Xh Xh 47h 30h 32h 32h 30h 0Dh	Get Current Source	Return 1:RGB 3:DVI 4:Video 6:HDMI 7:BNC 9:HDMI2 12:HDMI3/MHL 15:HDBaseT	Pn/F

Command Group 03				
ASCII	HEX	Function	Description	Return Value
VXXG0301	56h Xh Xh 47h 30h 33h 30h 31h 0Dh	Get Scaling	0:Fill 1:4:3 2:16:9 3:Letter Box 4:Native 5:2.35:1	Pn/F
VXXS0301n	56h Xh Xh 53h 30h 33h 30h 31h nh 0Dh	Set Scaling	0:Fill 1:4:3 2:16:9 3:Letter Box 4:Native 5:2.35:1	P/F
VXXG0302	56h Xh Xh 47h 30h 33h 30h 32h 0Dh	Blank		Pn/F
VXXS0302n	56h Xh Xh 53h 30h 33h 30h 32h nh 0Dh	Blank		P/F
VXXG0304	56h Xh Xh 47h 30h 33h 30h 34h 0Dh	Freeze On		Pn/F
VXXS0304n	56h Xh Xh 53h 30h 33h 30h 34h nh 0Dh	Freeze On		P/F
VXXG0305	56h Xh Xh 47h 30h 33h 30h 35h 0Dh	Volume	n=0~10	Pn/F
VXXS0305n	56h Xh Xh 53h 30h 33h 30h 35h nh 0Dh	Volume	n=0~10	P/F
VXXG0308	56h Xh Xh 47h 30h 33h 30h 38h 0Dh	Projection Mode	0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling	Pn/F
VXXS0308n	56h Xh Xh 53h 30h 33h 30h 38h nh 0Dh	Projection Mode	0:Front 1:Rear 2:Ceiling 3:Rear+Ceiling	P/F
VXXG0309	56h Xh Xh 47h 30h 33h 30h 39h 0Dh	Get vertical keystone value	n=-30~+30	Pn/F
VXXS0309n	56h Xh Xh 53h 30h 33h 30h 39h nh 0Dh	Set vertical keystone value	n=-30~+30	P/F
VXXG0310	56h Xh Xh 47h 30h 33h 31h 30h 0Dh	Get horizontal keystone value	n=-30~+30	Pn/F

Command Group 03				
ASCII	HEX	Function	Description	Return Value
VXXS0310n	56h Xh Xh 53h 30h 33h 31h 30h nh 0Dh	Set horizontal keystone value	n=-30~+30	P/F
VXXG0311	56h Xh Xh 47h 30h 33h 31h 31h 0Dh	Adjust the zoom	n=-10~+10	Pn/F
VXXS0311n	56h Xh Xh 53h 30h 33h 31h 31h nh 0Dh	Adjust the zoom	n=-10~+10	P/F
VXXG0315	56h Xh Xh 47h 30h 33h 31h 35h 0Dh	3D	0:Off 1:DLP-Link 2:IR	Pn/F
VXXS0315n	56h Xh Xh 53h 30h 33h 31h 35h nh 0Dh	3D	0:Off 1:DLP-Link 2:IR	P/F
VXXG0316	56h Xh Xh 47h 30h 33h 31h 36h 0Dh	3D Sync Invert	0:Off 1:On	Pn/F
VXXS0316n	56h Xh Xh 53h 30h 33h 31h 36h nh 0Dh	3D Sync Invert	0:Off 1:On	P/F
VXXG0317	56h Xh Xh 47h 30h 33h 31h 37h 0Dh	3D Format	0:Frame Sequential 1:Top/Bottom 2:Side-By-Side 3:Frame Packing	Pn/F
VXXS0317n	56h Xh Xh 53h 30h 33h 31h 36h nh 0Dh	3D Format	0:Frame Sequential 1:Top/Bottom 2:Side-By-Side 3:Frame Packing	P/F
VXXG0319	56h Xh Xh 47h 30h 33h 31h 38h 0Dh	Light Mode	0:Normal 1:Eco 2.Eco Plus 3:Dimming 4.Extreme Dimming 5.Custom Light	Pn/F
VXXS0319n	56h Xh Xh 53h 30h 33h 31h 38h nh 0Dh	Light Mode	0:Normal 1:Eco 2.Eco Plus 3:Dimming 4.Extreme Dimming 5.Custom Light	P/F
VXXG0321	56h Xh Xh 47h 30h 33h 32h 31h 0Dh	Logo Select	0:Std 1:Black 2:Blue	Pn/F
VXXS0321n	56h Xh Xh 53h 30h 33h 32h 31h nh 0Dh	Logo Select	0:Std 1:Black 2:Blue	P/F
VXXG0322	56h Xh Xh 47h 30h 33h 32h 32h 0Dh	Fan Speed	0:Normal 1:High	Pn/F
VXXS0322n	56h Xh Xh 53h 30h 33h 32h 32h nh 0Dh	Fan Speed	0:Normal 1:High	P/F
VXXG0330	56h Xh Xh 47h 30h 33h 33h 30h 0Dh	Sleep Timer (min = n*5)	0~120	Pn/F
VXXS0330n	56h Xh Xh 53h 30h 33h 33h 30h nh 0Dh	Sleep Timer (min = n*5)	0~120	P/F
VXXG0358	56h Xh Xh 47h 30h 33h 35h 38h 0Dh	Get IR On/Off Control	0:Both IR turn on 1:Front IR turn on 2:Back IR turn on	Pn/F
VXXS0358n	56h Xh Xh 53h 30h 33h 35h 38h n 0Dh	Set IR On/Off Control	0:Both IR turn on 1:Front IR turn on 2:Back IR turn on	P/F





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

- This projector is compliant to support Extron device(s) for reference. <u>http://www.extron.com/</u>
- This projector supports all commands of PJLink Class1 (Version 1.00). <u>http://pjlink.jbmia.or.jp/english/</u>

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.

- 7. Press the Menu button on the projector.
- 8. Select Settings2 \rightarrow Advanced1 \rightarrow 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

Open a web browser

(for example, Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher).

🖉 Navigatior	n Canceled - Windows Internet Explorer	
00-	e http://10.10.10.10/	• • ×
🚖 Favorites		
1	Navigation to the webpage was canceled	
	What you can try:	
	Refresh the page.	

- 11. In the Address bar, input the IP address: 10.10.10.10.

The projector is setup for remote management. The LAN/RJ45 function displays as follows.

Vivid Color, Vivid Life		
Projector Info	Model Name	
		System
Alert Mail Settings	System Status	Power On
Crestron	Display Source	No Source
	Lamp Hours	2
	Display Mode	Presentation
	Error Status	No Error
		LAN Status
	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	
		Version
	LAN Version	
	F/W Version	

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.

📮 Local Area Connection Properties
Networking Sharing
Connect using:
VIA Rhine II Compatible Fast Ethemet Adapter
Configure This connection uses the following items:
Client for Microsoft Networks Gas Packet Scheduler Gas Packet Scheduler File and Printer Sharing for Microsoft Networks Anternet Protocol Version 6 (TCP/IPv6) Anternet Protocol Version 4 (TCP/IPv4) A
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

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

Internet Protocol Version 4 (TCP/IPv4)	Properties
General	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	matically if your network supports o ask your network administrator
Obtain an IP address automatical	ly
• Use the following IP address:	
IP address:	10 . 10 . 10 . 99
Subnet mask:	255.255.255.0
Default gateway:	· · ·
Obtain DNS server address auton	natically
• Use the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	· · ·
🔲 Vaļidate settings upon exit	Ad <u>v</u> anced
	OK Cancel

LAN RJ45

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



2. On the PC (Laptop), select Start \rightarrow Control Panel \rightarrow 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.

📮 Local Area Connection Properties
Networking Sharing
Connect using:
VIA Rhine II Compatible Fast Ethemet Adapter
Configure This connection uses the following items:
Client for Microsoft Networks Gas Packet Scheduler Gas Packet Scheduler File and Printer Sharing for Microsoft Networks Anternet Protocol Version 6 (TCP/IPv6) Anternet Protocol Version 4 (TCP/IPv4) A
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

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

Internet Protocol Version 4 (TCP/IPv4)	Properties
General	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	matically if your network supports o ask your network administrator
Obtain an IP address automatical	ly
• Use the following IP address:	
IP address:	10 . 10 . 10 . 99
Subnet mask:	255.255.255.0
Default gateway:	· · ·
Obtain DNS server address auton	natically
• Use the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	· · ·
🔲 Vaļidate settings upon exit	Ad <u>v</u> anced
	OK Cancel

- 7. Press the Menu button on the projector.
- 8. Select Settings2 \rightarrow Advanced1 \rightarrow 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

Open a web browser

(for example, Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher).

🖉 Navigatior	n Canceled - Windows Internet Explorer	
00-	e http://10.10.10.10/	• • ×
🔆 Favorites		
1	Navigation to the webpage was canceled	
	What you can try:	
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	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	
		Version
	LAN Version	
	F/W Version	

Power	Vol -	Mute	Vol +	
Sourcel ist				Interface 2.7.2.4
				Auto
				Enter
			Blank	Source
- Freeze	Contra	ast Brightness	Color	
CRESTRON				Expansion Options
Crestron Control		Proiector		User Password
IP Address	Projector Name	PJ01	-	I Isr Enabled
IP ID	Location	RM01	Password	
Control Port	Assigned To	Sir	Confirmed	
Control Set		Set		Usr Set
	Network Config	DHCP Enabled	_	
	IP Address	10.10.10.10	_	Admin Password
	Subnet Mask	255.255.255.0	_	Adm Enabled
	Delault Gateway	0.0.0.0	Password	
	Divo Server	0.0.0.0	Confirmed	
		Net Set		Adm Set
		Tools Exit		

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

vivitek °		
Vivid Color, Vivid Life		
raiector Info	Model Name	
		System
ert Mail Settings	System Status	Power On
restron	Display Source	No Source
	Lamp Hours	2
	Display Mode	Presentation
	Error Status	No Error
		LAN Status
	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	
		Version
	LAN Version	
	F/W Version	

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

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.)
	SMIP Server: Port: 25 User Name: Password: Mail Server Apply From:
	To: CC: Mail Address Apply E-mail Alert Options: Fan lock : V Over_Heat: V Case Open: Lamp Fail: V Lamp Hours Over: Filter Hours Over: V
	Weekly Report: Alert Option Apply Send Test Mail

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.

Projector Info Alert Mail Settings Crestron	Send E-Ma Enter the appropriate se (Your SMTP server may	II attings in the fields below: not require a user name or password.)
	SMTP Server: User Name: Password:	mail.corp.com Port: 25 Sender.US
	From: To:	Mail Server Apply send@mail.corp.com rcvr1@mail.corp.com
	CC: E-mail Alert (Fan lock :	rcvr2@mail.corp.com Mail Address Apply Dptions: V Over_Heat: V
	Case Open: Lamp Hours (Weekly Repo	✓ Lamp Fail: ✓
		Send Test Mail

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 ttt.xxx.yyy.zzz 23 ("Enter" key pressed)

(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 7 / 8 / 10

By default installation for Windows, "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

Control Panel >	▼ *j	Q
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		
Control Panel Home Classic View	System and Maintenance Get started with Windows Back up your computer	•
	Security Check for updates Check this computer's security status Firewall	
	View network and Internet View network status and tasks Set up file sharing	ш
	Hardware and Sound Play CDs or other media automatically Printer Mouse Ease of Access Let Windows suggest settings Optimize visual display	
Recent Tasks Comparison of the second	Programs Additional Options Uninstall a program Image: Change startup programs	
off Printer	Mobile PC Change battery settings Adjust commonly used mobility	+

Open "Programs"



Select "Turn Windows features on or off" to open

Windows Fe	atures		X
Turn Wind	ows features on or off		?
To turn a feat check box. A f	ure on, select its check box. To turn a feature ïlled box means that only part of the feature	off, clear it is turned o	ts n.
E 📔 RIP	Listener		
🔲 📔 Sirr	ple TCPIP services (i.e. echo, daytime etc)		
🕀 🔲 🚺 SNI	MP feature		
🔽 📙 Tak	olet PC Optional Components		
🔽 🍌 Tel	net Client		
🔳 📗 Tel	net Server		-
🔽 脂 TFT	"P Client		
🔽 🆺 Wir	ndows DFS Replication Service		
🔽 🍌 Wir	ndows Fax and Scan		=
🔽 🆺 Wir	ndows Meeting Space		
🕀 🔲 🔒 Wir	ndows Process Activation Service		
2001 98 00 - 18 M			-
	ОК	Canc	el

Have "Telnet Client" option checked, then press "OK" button.

Mi	crosoft Windows
F	Please wait while the features are configured. This might take several minutes.
	Cancel

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.)