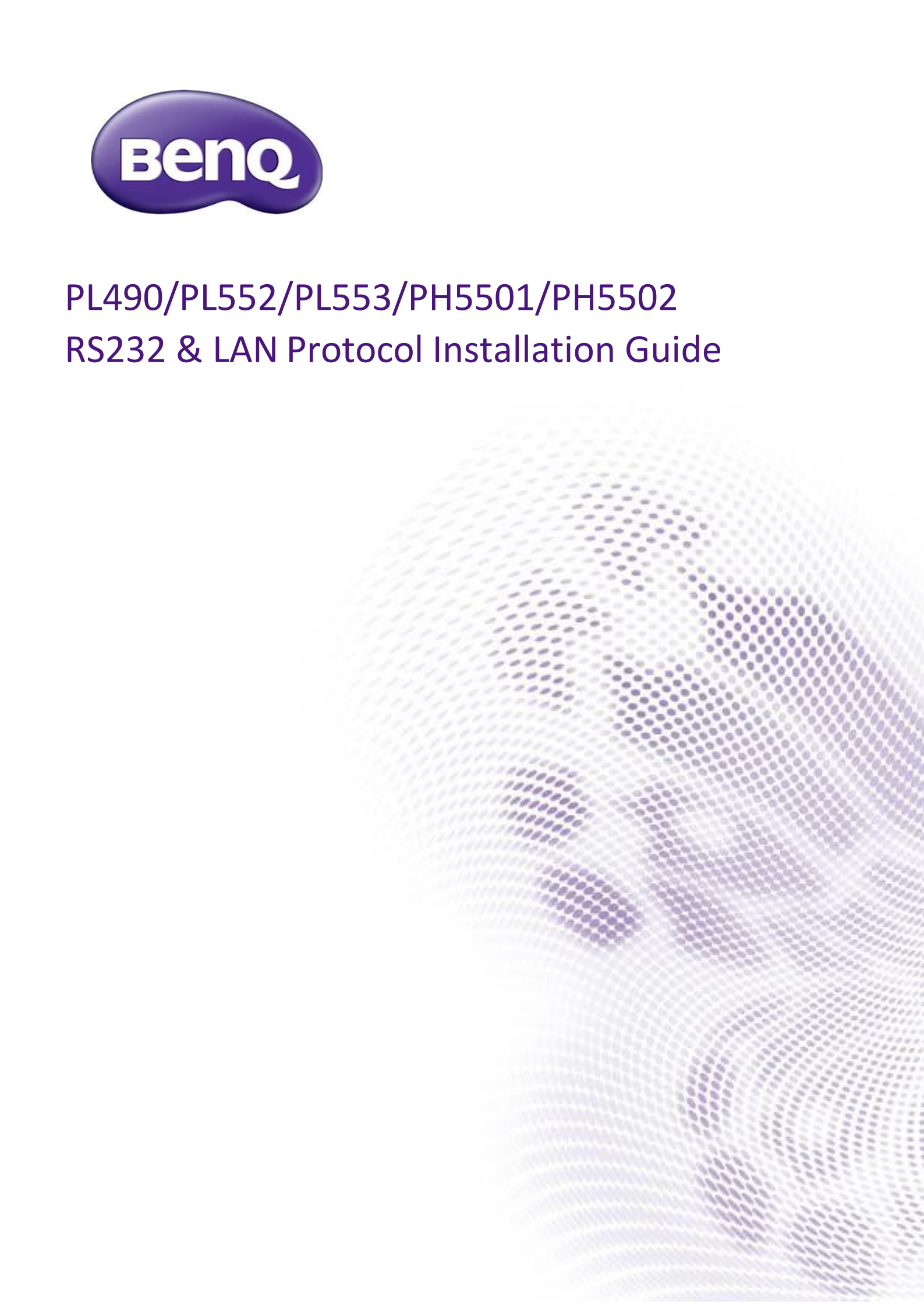
PL490/PL552/PL553/PH5501/PH5502
RS232 & LAN Protocol Installation Guide



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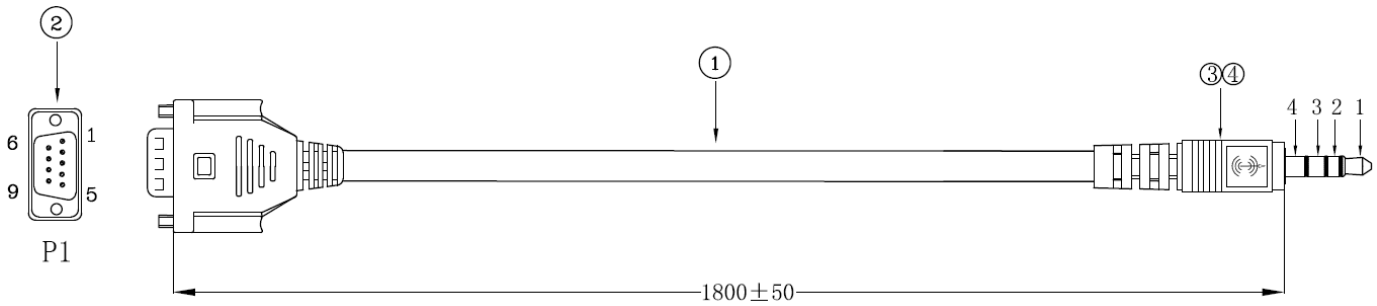
Introduction

This document describes the hardware interface spec and software protocols of RS232 inte Date: 2019/03/22
communication between Commercial Display and PC or other control unit with RS232 protocol.
This set protocol allow users to assign the ID in the command to control the specify ID monitor.
The set protocol contains two sections command: Set-Function and Get-Function

In this document, "PC" represents all the control units that can send or receive the RS232 protocol command.

Wire arrangement

RS232 In/Out: 2.5mm phone jack and support below cable



WIRING TABLE

P1	WIRING COLOR	P2
2	RED 红色	1
3	BLUE 蓝色	2
9	BLACK 黑色	3
5	DRAIN 地线	4

DB-9 connector pin assignment (P1):

D-sub-9	Signal Direction	Signal Name
	x	Protective Ground
3	DTE-to-DCE	Transmitted Data
2	DCE-to-DTE	Received Data
7	DTE-to-DCE	Request To Send
8	DCE-to-DTE	Clear To Send
6	DCE-to-DTE	Data Set Ready
5	x	Signal Ground
1	DCE-to-DTE	Received Line Signal Detector (Carrier Detect)
4	DTE-to-DCE	Data Terminal Ready
9	DCE-to-DTE	Ring Indicator

Communication setting

Baud rate select: 9600bps (fixed)/ Data bits: 8 bits (fixed)

Parity: None (fixed)/ Stop Bits: 1(fixed)

Command message reference

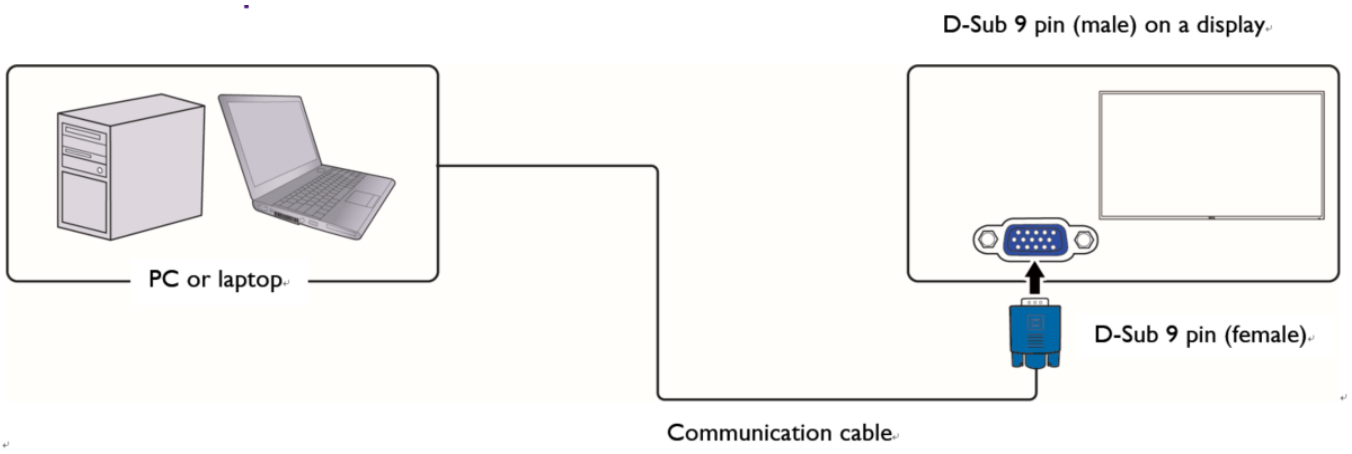
PC sends to Monitor command packet followed by "CR". Every time PC sends control command to the Monitor, the Monitor shall response as follows:

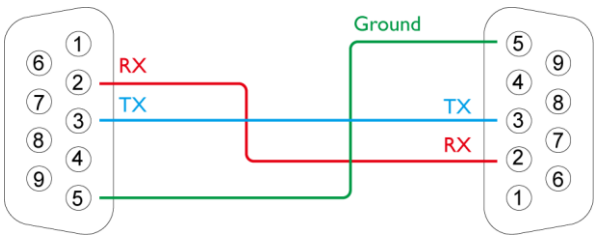
1. If the message is received correctly, it will send "+" (02Bh) followed by "CR" (00Dh).
2. If the message is received incorrectly, it will send "-" (02Dh) followed by "CR" (00Dh).

Connections and communication settings

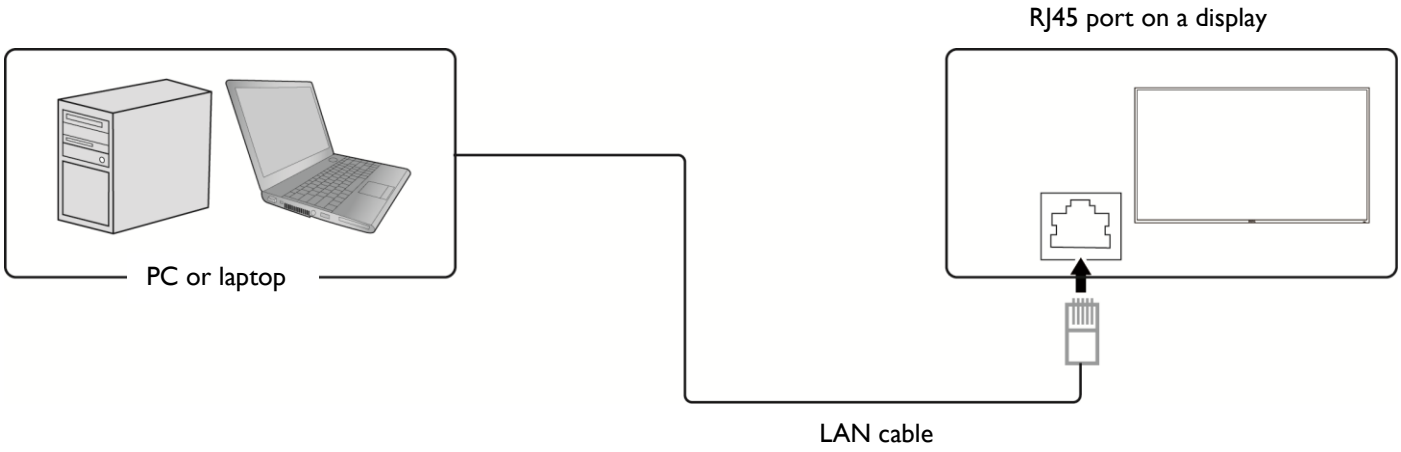
Choose one of the connections and set up properly before RS232 control.

RS232 serial port connection





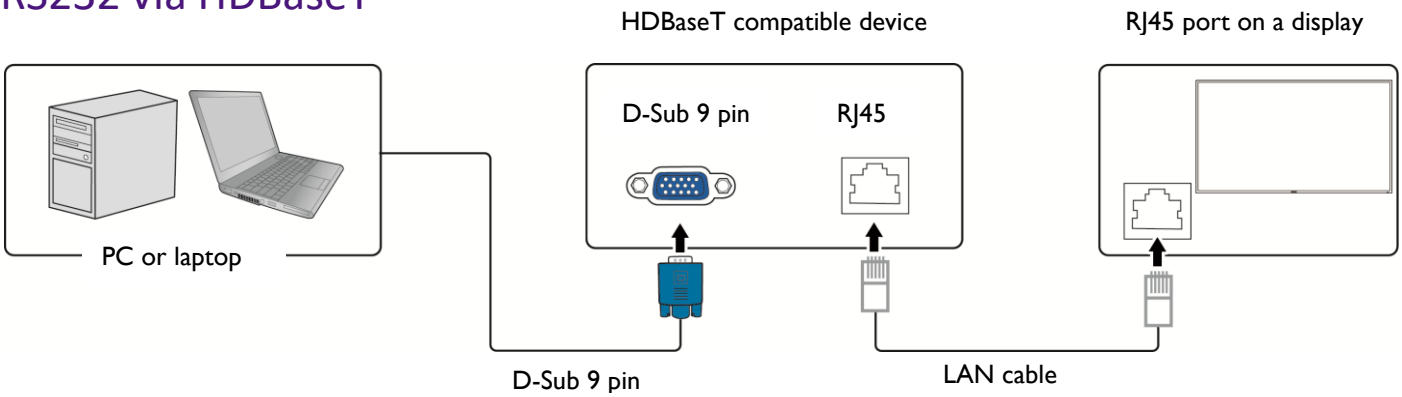
RS232 via LAN



Find the Wired LAN IP address of the connected display from the OSD menu and make sure the display and the computer are within the same network.

IP Protocol Port: 4660

RS232 via HDBaseT



Protocol Command Description

Item	Description
Length	Total Bytes of Message excluding "CR"
Display ID	Identification for each display Display ID is “01” for LAN control & RS232 control
Command Type	Identify command type, "s" (0x73h): Set Command "g" (0x67h): Get Command "r" (0x72h): Reply Command "+" (0x2Bh): Valid command Reply "-" (0x2Dh): Invalid command Reply
Command	Function command code: One byte ASCII code

Value [1~3]	Three bytes ASCII that defines the value
CR	0x0D

Set-function listing

The PC can control the LCD Monitor for specific actions. The Set-Function command allows you to control the LCD monitor behavior in a remote sit through the RS232 port. The
Set-Function packet format consists of 11 bytes.

Set-function description

Item	Description
Length	Total Bytes of Message excluding "CR"
Display ID	Identification for each display Display ID is “01” for LAN control & RS232 control
Command Type	Identify command type, "s" (0x73h): Set Command
Command	Function command code: One byte ASCII code
Value [1~3]	Three bytes ASCII that defines the value
CR	0x0D

Set-function format

Send: (Command Type="s")

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Byte count	1 Byte	2 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5	6	7	8	9

Reply: (Command Type="+" or "-")

Name	Length	ID	Command type	CR
Byte count	1 Byte	2 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5

Example 1: Set Brightness as 76 and this command is valid.

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x73	0x24	0x30	0x37	0x36	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	CR
Hex	0x34	0x30 0x31	0x2B	0x0D

Example 2: Set Brightness as 176 and this command is NOT valid.

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x73	0x24	0x31	0x37	0x36	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	CR
Hex	0x34	0x30 0x31	0x2D	0x0D

Example 3: Set Balance as 50 this command is valid.

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x73	0x39	0x30	0x35	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	CR
Hex	0x34	0x30 0x31	0x2D	0x0D

Example 4: Set Balance as 115 this command is Not valid.

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x73	0x39	0x31	0x31	0x35	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	CR
Hex	0x34	0x30 0x31	0x2D	0x0D

Set-function table

Set Function	Len	ID	Cmd Type	Cmd Code (Hex)	RS232/LAN	Remark
Power	8		s	21	000: Standby	
					001: On	
Video Source	8		s	22	000 : VGA	
					001 : HDMI1	
					002: HDMI2	
					003 : AV	
					004 : YPbPr	
					006 : DVI	
					007 : DisplayPort	
					010 : Network	
					011: USB Display	
					102 : OPS	
Contrast	8		s	23	000 ~ 100	
Brightness	8		s	24	000 ~ 100	
Sharpness	8		s	25	000 ~ 020	
Picture Reset	8		s	26	000	
Aspect Ratio	8		s	31	000 : Auto Zoom	
					001 : Movie expand 16:9	
					002 : Wide	
					003 : Unscaled	
					004 : 4:3	
Language	8		s	32	000: English	
					001: Français	
					002: Español	
					003: 繁中	
					004: 简中	
					006: German	
					007: Dutch	
					008: Polish	
					009: Russia	
					010:Czech	
					011:Danish	
					012:Swedish	
					013:Italian	

					014:Romanian	
					015:Norwegian	
					016:Finnish	
					017:Greek	
					019:Arabic	
					020:Japanse	
					021:Thailand	
					022:Korean	
Sound Mode	8		s	33	000: Personal	
					001: Original	
					002: Movie	
					003: Music	
					004: Game	
					005: News	
Volume	8		s	35	000 ~ 060	
Mute	8		s	36	000: Off	
					001: On	
Treble	8		s	37	000 ~ 016	OSD value=RS232 value-8
Bass	8		s	38	000 ~ 016	OSD value=RS232 value-8
Balance	8		s	39	000 ~ 016	OSD value=RS232 value-8
Surround	8		s	3A	000: Off	
					001: On	
Sound Reset	8		s	3B	000	Value don't care
Monitor ID	8		s	3D	001 ~ 098	
Remote control	8		s	40	000 : Vol+	
					001 : Vol-	
					002 : mute key	
					010 : Remote up	
					011 : Remote down	
					012 : Remote left	
					013 : Remote right	
					014 : Remote OK	
					020 : Remote Menu	
					021 : Remote Source	
					022 : Remote Exit	
IR Control	8		s	42	000: Disable	
					001: Enable	
Button&IR Control	8		s	43	000: Disable	All the buttons at both keypad board and remote controller have no function.

					001: Enable	
Button Control	8		s	45	000: Disable	All the buttons at the keypad board have no function
					001: Enable	
Image Retention	8		s	47	000: Off	
					001: On	
OSD Info Box	8		s	5B	000: Off	
					001: On	
All Reset	8		s	7E	000	Value don't care
Picture Mode	8		s	81	000 : Personal	
					001 : Vivid	
					002 : Natural	
					003 : Standard	
					004: Movie	
					005: Photo	
					006: Energy saving	
Chroma (Color)	8		s	82	000 ~ 100	
Hue	8		s	83	000 ~ 100	OSD value=RS232 value-50
Backlight	8		s	84	000 ~ 100	
Adaptive Contrast	8		s	85	000: Off	
					001: Minium	
					002: Medium	
					003: Maxium	
Tint	8		s	86	000: Cool	
					001: Normal	
					002: Warm	
					003: Custom	
Speaker	8		s	89	000: Off	
					001: On	
Auto Adjustment Execute	8		s	8F	000	For VGA only, execute auto adjustment.
Auto Search	8		s	96	000: Off	
					001: On	
RTC Year	8		s	98	000 ~ 099	Ex: value=012 means Year 2012 If the setting is illegal (Ex: Year 2013 doesn't have the date

						Feb/29), return "Invalid Command Reply".
RTC Month	8		s	99	001 ~ 012	Ex: value=001 means January If the setting is illegal (Ex: Februrary doesn't have the date Feb/31), return "Invalid Command Reply".
RTC Day	8		s	9A	001 ~ 031	If the setting is illegal (Ex: Day31 doesn't exist in April), return "Invalid Command Reply".
RTC Hour	8		s	9B	000 ~ 023	
RTC Minute	8		s	9C	000 ~ 059	
H Monitor	8		s	A4	001 ~ 015	
V Monitor	8		s	A5	001 ~ 015	
Tiling Position	8		s	A6	001 ~ 255	
Frame Comp.	8		s	A8	000: Off	
					001: On	
Power Save	8		s	A9	000: Off	
					001: Low	
					002: High	
Display Wall LED	8		s	AE	000: Off	
					001: On	
Display Wall Power On Delay	8		s	AF	000 ~ 060 000 : off 001 : auto 002 ~ 060 : 2 ~ 60 sec	
On/Off Timer	14		s	E0	Byte1~Byte9 (1) Byte1: Decide which Timer is selected, and its enable/disable setting. Byte1[3:0]=0x1~0x07. There are totally 7 Timers, this value is used to decide which Timer is selected. Byte1[7]: Reserved, should be 0. Byte1[6]: The Timer is enable or not. Byte1[6]=1 means enable. Byte1[5]: The On Timer is enable or not. Byte1[5]=1 means	Note: Some of the Video Sources are not supported if the model doesn't have this feature.. Ex: Byte1=0x01 means the Timer no.1 is selected and disable. Ex: Byte1=0x41 means the Timer no.1 is select and enable, and its both On and Off Timers are disable. Ex: Byte1=0x61 means the Timer no.1 is select and enable, and its On Timer is enable, Off Timer is disable.

					enable. Byte1[4]: The Off Timer is enable or not. Byte1[4]=1 means enable. (2) Byte2: The Day of the On/Off Timer. bit0 for Sunday, bit1 for Monday, bit2 for Tuesday, bit3 for Wednesday, bit4 for Thursday, bit5 for Friday, bit6 for Saturday, bit7 for Everday. (3) Byte3: The Hour of the On Timer. Byte3=0x00~0x17. (4) Byte4: The Minute of the On Timer. Byte4=0x00~0x3B. (5) Byte5: The Hour of the Off Timer. Byte5=0x00~0x17. (6) Byte6: The Minute of the Off Timer. Byte6=0x00~0x3B. (7) Byte7: Select the Video Source. 0x00 : VGA, 0x01 : HDMI1, 0x02: HDMI2, 0x03 : AV, 0x04 : YPbPr, 0x06 : DVI, 0x07 : DisplayPort 0x0A : Network, 0x0B : USB Display, 0x66 : OPS, 0xFF : Default (Last Channel) (8) Byte8~9 are reserved, and should be 0x00.	Ex: Byte1=0x71 means the Timer no.1 is select and enable, and its both On and Off Timers are enable. Ex: Byte1=0x53 means the Timer no.3 is select and enable, and its On Timer is disable, Off Timer is enable. Ex: Byte2=0x02 means the Timer is on Monday. Ex: Byte3=0x08, Byte4=0x1E means the On Timer is at 8:30. Ex: Byte5=0x17, Byte6=0x00 means the Off Timer is at 23:00. Ex: Byte7=0x00 means the selected Video Source is VGA.

Get-function listing

The PC can interrogate the LCD Monitor for specific information. The Get-Function packet format consists of 5 bytes which are similar to the Set-Function packet structure. Note that the "Value" byte is always = 00.

Get-function description

Item	Description
Length	Total Bytes of messages excluding "CR"
Display ID	Identification for each of display Display ID is “01” for LAN control & RS232 control
Command Type	Identify command type, "g" (0x67h): Get Command
Command	Function command code: One byte ASCII code
Value [1~3]	Three bytes ASCII that defines the value NOTE: To get backlight senor, thermal sensor, and ambient sensor, you need four bytes ASCII that defines the value and the length is 9.
CR	0x0D

Get-function format

Send: (Command Type="g")

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Byte count	1 Byte	2 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5	6	7	8	9

Reply: (Command Type="r" or "-")

If the Command is valid, Command Type ="r"

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Byte count	1 Byte	2 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5	6	7	8	9

If the Command is Not valid, Command Type="-"

Name	Length	ID	Command type	CR
Byte count	1 Byte	2 Byte	1 Byte	1 Byte
Bytes order	1	2~3	4	5

Example 1: Get Brightness and this command is valid.

The Brightness value is 67.

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x67	0x62	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x72	0x62	0x30	0x36	0x37	0x0D

Example 3: Get Balance from and this command is valid.

The Balance value is 32.

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x67	0X39	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x72	0x39	0x30	0x33	0x32	0x0D

Example 4: Get Balance, but the Balance command ID is error and it is NOT in the command table.

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	CR
Hex	0x38	0x30 0x31	0x67	0XD7	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	CR
Hex	0x34	0x30 0x31	0x2D	0x0D

Example 5: Get Operation time from system and this command is valid.

The System Operation time value is 1786 (ASCII code).

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	Value4	Value5	CR
Hex	0x38	0x30 0x31	0x67	0X76	0x30	0x30	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	Value4	Value5	CR

Hex	0x38	0x30 0x31	0x72	0x76	0x30	0x31	0x37	0x38	0x36	0x0D

Example 6: Get CO2 Value from System and this command is valid.

The lux value is 786 (ASCII code).

Send (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	Value4	Value5	CR
Hex	0x38	0x30 0x31	0x67	0XAB	0x30	0x30	0x30	0x30	0x30	0x0D

Reply (Hex Format)

Name	Length	ID	Command type	Command	Value1	Value2	Value3	Value4	Value5	CR
Hex	0x38	0x30 0x31	0x72	0xAB	0x30	0x30	0x37	0x38	0x36	0x0D

PC Get-function command

Get Function	Len	ID	Cmd Type	Cmd Code (Hex)	RS232/LAN	Remark
Model Info	20		g	20	(1) Input value: Byte1 - Byte2 - Byte3…Byte15 Byte2~Byte11=0x00 Byte1=0x01: Get Customer Name Byte1=0x02: Get Customer Model Name Byte1=0x04: Get Scaler Firmware Version Byte1=0x06: Get Serial Number (2) Return value: Byte1 - Byte2 - Byte3…Byte15 The Byte1 value at the return value should be the same as the value of Byte1 at input value. Byte2~Byte15 should be ASCII format. Ex: If Customer=Generic, Byte1=0x01, Byte2='G', Byte3='e',...Byte8='c', Byte9~Byte11=0x00. Ex: If the Scaler Firmware	MDA : Byte1=0x01: Get Customer Name -> BENQ Byte1=0x02: Get Customer Model Name -> by project ~~Byte1=0x03: Get Qisda Model Name~~ Byte1=0x04: Get Scaler Firmware Version Byte1=0x05: Get LAN Firmware Version Byte1=0x06: Get Serial Number

					Version=1.02, Byte1=0x03, Byte2='1', Byte3='.', Byte4='0', Byte5='2', Byte6~Byte11=0x00.	
Signal Status	8		g	22	000: Signal unstable	
					001: Signal stable (Active Sync exists)	
Treble	8		g	37	000~016	OSD value=RS232 value-8
Bass	8		g	38	000~016	OSD value=RS232 value-8
Balance	8		g	39	000~100	OSD value=RS232 value-50
Surround	8		g	3A	000: Off	
					001: On	
OSD Info Box	8		g	5D	000: Off	
					001: On	
Contrast	8		g	61	000 ~ 100	
Brightness	8		g	62	000 ~ 100	
Sharpness	8		g	63	000 ~ 020	
Sound Mode	8		g	65	000: Personal	
					001: Original	
					002: Movie	
					003: Music	
					004: Game	
					005: News	
Volume	8		g	66	000 ~ 060	
Mute	8		g	67	000: Off	
					001: On	
IR Control	8		g	68	000: Disable	All the buttons at the remote controller have no function
					001: Enable	
Button&IR Control	8		g	69	000: Disable	All the buttons at both keypad board and remote controller have no function.

					001: Enable	
Video Source	8		g	6A	000 : VGA	
					001 : HDMI1	
					002: HDMI2	
					003 : AV	
					004 : YPbPr	
					006 : DVI	
					007 : DisplayPort	
					010 : Network	
					011: USB Display	
					102 : OPS	
Power	8		g	6C	000: Standby	
					001: On	
Thermal Sensor Value	10		g	71	(1) Input value: Byte1-Byte2-...Byte5 (a) Byte1=0x01: Get the thermal sensor value from main board 0x02: Get the thermal sensor value from keypad board (b) Byte2~Byte5 are reserved, should b 0x00 (2) Return value: Byte1-Byte2-...Byte5 (a) Byte1=0x01: The thermal sensor value is from main board 0x02: The thermal sensor value is rom kaypad board (b) Byte2: If the thermal value is >=0, Byte2='+' (0x2B) If the thermal value is <0, Byte2='-' (0x2D) (c) Byte3~Byte5: The absolute value of the temperature, in ASCII format.	Ex: If the temperature 5℃is from main board, the return value should be: Byte1=0x01, Byte2=0x2B, Byte3=0x30, Byte4=0x30, Byte5=0x35. Ex: If the temperature -15℃is from keypad board, the return value should be: Byte1=0x02, Byte2=0x2D, Byte3=0x30, Byte4=0x31, Byte5=0x35.
Image Retention	8		g	72	000: Off	
					001: On	
Button Control	8		g	73	000: Disable	All the buttons at the keypad board have no function

					001: Enable	
Monitor ID	8		g	75	001 ~ 098	
Operation Time	10		g	76	00000 ~ 65535	unit is hour
Aspect Ratio	8		g	77	000 : Auto Zoom	
					001 : Movie expand 16:9	
					002 : Wide	
					003 : Unscaled	
					004 : 4:3	
Language	8		g	78	000: English	
					001: Français	
					002: Español	
					003: 繁中	
					004: 简中	
					006: German	
					007: Dutch	
					008: Polish	
					009: Russia	
					010:Czech	
					011:Danish	
					012:Swedish	
					013:Italian	
					014:Romanian	
					015:Norwegian	
					016:Finnish	
					017:Greek	
					019:Arabic	
					020:Japanse	
					021:Thailand	
					022:Korean	
Display Wall LED	8		g	AE	000: OFF	
					001: ON	
Display Wall Power On Delay	8		g	AF	000 : off	000 : off 001 : auto 002 ~ 060 : 2 ~ 60 sec
					001 : auto	
					002 ~ 060 : 2 ~ 60 sec	
Picture Mode	8		g	B1	000: Personal	
					001: Original	
					002: Movie	

					003: Music	
					004: Game	
					005: News	
Chroma (Color)	8		g	B2	000 ~ 100	
Hue	8		g	B3	000 ~ 100	
Backlight	8		g	B4	000 ~ 100	
Adaptive Contrast	8		g	B5	000: Off	
					001: Minium	
					002: Medium	
					003: Maxium	
Tint	8		g	B6	000: Cool	
					001: Normal	
					002: Warm	
					003: Custom	
Speaker	8		g	B9	000: Off	
					001: On	
Auto Search	8		g	C6	000: Off	
					001: On	
RTC Year	8		g	C8	000 ~ 099	Ex: value=012 means Year 2012 If the RTC is not enable, return "Invalid Command Reply"
RTC Month	8		g	C9	001 ~ 012	Ex: value=001 means January If the RTC is not enable, return "Invalid Command Reply"
RTC Day	8		g	CA	001 ~ 031	If the RTC is not enable, return "Invalid Command Reply"
RTC Hour	8		g	CB	000 ~ 023	If the RTC is not enable, return "Invalid Command Reply"
RTC Minute	8		g	CC	000 ~ 059	If the RTC is not enable, return "Invalid Command Reply"
H Monitor	8		g	D4	001 ~ 010	
V Monitor	8		g	D5	001 ~ 010	
Tiling Position	8		g	D6	000 ~ 255	
Frame Comp.	8		g	D8	000: Off	
					001: On	
Power Save	8		g	D9	000: Off	
					001: Low	
					002: High	

On/Off Timer	14		g	E0	Input value: Byte1 - Byte2 - Byte3…Byte9 (1) Byte1[3:0]: The Number of the On/Off Timer. There are totally 7 On/Off Timers, and this byte is used to selected which timer is going to be accessed. (2) Byte1[7:4] is reserved, should be 0. (3) Byte2~9 are reserverd, should be 0x00. Return value: Byte1 - Byte2 - Byte3…Byte9 (1) Byte1[3:0]: Should retuen the same value as Byte1 at Input value. Byte1[7]: Reserved, should be 0. Byte1[6]: The Timer is enable or not. Byte1[6]=1 means enable. Byte1[5]: The On Timer is enable or not. Byte1[5]=1 means enable. Byte1[4]: The Off Timer is enable or not. Byte1[4]=1 means enable. (2) Byte2: The Day of the On/Off Timer. bit0 for Sunday, bit1 for Monday, bit2 for Tuesday, bit3 for Wednesday, bit4 for Thursday, bit5 for Friday, bit6 for Saturday, bit7 for Everday. (3) Byte3: The Hour of the On Timer. Byte3=0x00~0x17. (4) Byte4: The Minute of the On Timer. Byte4=0x00~0x3B. (5) Byte5: The Hour of the Off Timer. Byte5=0x00~0x17. (6) Byte6: The Minute of the Off Timer. Byte6=0x00~0x3B. (7) Byte7: Select the Video Source. 0x00 : VGA, 0x01 : HDMI1, 0x02:	See the return value examples below: Ex: Byte1=0x01 means the Timer no.1 is selected and disable. Ex: Byte1=0x41 means the Timer no.1 is select and enable, and its both On and Off Timers are disable. Ex: Byte1=0x61 means the Timer no.1 is select and enable, and its On Timer is enable, Off Timer is disable. Ex: Byte1=0x71 means the Timer no.1 is select and enable, and its both On and Off Timers are enable. Ex: Byte1=0x53 means the Timer no.3 is select and enable, and its On Timer is disable, Off Timer is enable. Ex: Byte2=0x02 means the Timer is on Monday. Ex: Byte3=0x08, Byte4=0x1E means the On Timer is at 8:30. Ex: Byte5=0x17, Byte6=0x00 means the Off Timer is at 23:00. Ex: Byte7=0x00 means the selected Video Source is VGA.

					HDMI2, 0x03 : AV, 0x04 : YPbPr, 0x06 : DVI, 0x07 : DisplayPort 0x0B : USB Display, 0x66 : OPS (8) Byte8~9 are reserved, and should be 0x00.	
Network Setting	14		g	E1	Input Value: Byte1 - Byte2 - Byte3…Byte9 (1) Byte1=0x00: IP Setup Mode Byte1=0x01: IP Address Byte1=0x02: Get Subnet Mask Byte1=0x03: Default Gateway Byte1=0x04: Primary DNS Byte1=0x05: Secondary DNS Byte1=0x06: MAC Address (2) Byte2~9 are reserved, should be 0x00. Return value: Byte1 - Byte2 - Byte3…Byte9 The Byte1 at the return value should be the same as the value of Byte1 at Input value. Byte2~Byte15 should be hex value format (1) If Byte1=0x00(IP Setup Mode) at Input value, the return value should be Byte1=0x00 Byte2=0x00: Manual	Ex: Subnet Mask=255.255.255.0, the return value: Byte1=0x02, Byte2=0xFF, Byte3=0xFF, Byte4=0xFF, Byte5=0x00, Byte6~9=0x00.

					0x01: DHCP Byte3~9 are reserved, should be 0x00. (2) If Byte1=0x01(IP Address) at Input value, the return value should be Ex: IP address=169.254.81.38 Byte1=0x01 (same as Byte1 at Input value) Byte2=0xA9 (=169), Byte3=0xFE (=254), Byte4=0x51(=81), Byte5=0x26 (=38) Byte6~9 are reserved, should be 0x00. (3) If Byte1=0x02~0x05 at Input value, refer to (2) (4) If Byte1=0x06(MAC Address) at Input value, the return value should be Ex: MAC address=00:22:64:7E:2C:82 Byte1=0x06 (same as Byte1 at Input value) Byte2=0x00, Byte3=0x22, Byte4=0x64, Byte5=0x7E, Byte6=0x2C, Byte7=0x82 Byte8~9 are reserved, should be 0x00.	