

Dear Customer,

The document below contains all the RS232 & IP Commands for controlling the PRV110KLCDR.

We hope you will have a fulfilling experience controlling the display for the specific needs of your environment.

PrimeView Global Support Team.

General Settings

LAN controlling:

IP: please use the IP that was set to your Display

Port: 4664

Protocol: TCP

RS232 Controlling:

Baud Rate: 9600bsp

Data Bit: 8bits

Parity: None

Stop Bit: 1

Command Format:

byte1 byte2 byte3 byte4 byte5 byte6 byte7 byte8 byte9

Command Description:

byte1: always 3A, representing the start of the command

byte2、 byte3: always 30 31, indicating that the machine whose machine ID is 1 responds to the command

byte4: 53 indicates that the command is a set command; 47 indicates that the command is a get command

byte5: Indicates the type of command, such as Power is 30, Treble is 31, Volume is 38, etc.

byte6、 byte7、 byte8: data information of the command, such as 30 30 30 is 0, 30 31 32 is 12, 31 30 30 is 100

byte9: always 0D, representing the end of the command

RS232 Pinout:

DB9 Male Connector on Display side, please use a DB9 female connector

	(Tx) 2 --- 2 (Rx)	
Display Side	(Rx) 3 --- 3 (Tx)	Controller Side
	(GND) 5 --- 5 (GND)	

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Command Structure

The HEX command structure built from fixed Parts and changeable parts,
 The changeable parts are as follow:

Part A (Red) – ID Setup for RS232 Commands, the ID need to be set on the Display in advance,
 to change the ID to a different number follow this logic:

ID 00 – 30 30

ID 06 – 30 36

ID 23 – 32 33

ID 99 – 39 39 (highest ID that can be set)

Part B (Blue) – Command name tag

this part is not changeable by the user,

However, please make sure you use the correct Hex parameter for the commands you like to send.

Part C (Green) – Relevant for commands with Ranged Parameter only (Brightness, Volume, Contrast ext.)

To set the exact parameter you like to get from the range please follow this logic:

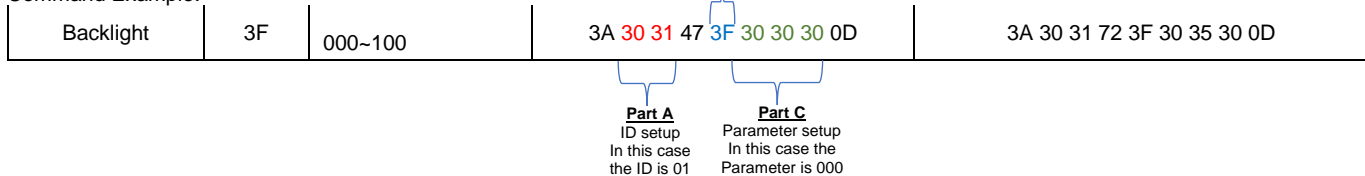
000 – 30 30 30

010 – 30 31 30

076 – 30 37 36

100 – 31 30 30

Command Example:



Wake On LAN

To get the Display Powered ON from Standby Mode with IP Commands you will have to set the "Wake ON Lan" function to ON.
 Please follow these steps to enable it:

1. In your IR Remote Control press on the Menu Button
2. Go to [System]
3. Enter to [Startup & Shutdown]
4. Enable the Wake On LAN option and press Enter
5. Go Back
6. Under [Wireless & Network] you can see the MAC address of the Display, use that MAC to send the Magic Pockets command.

Display ID Setup (for RS232 use only)

For RS232 command controls environment you can change the ID of the display from 00 to 99 for more accurate control in a multi-Display setups,
 Please follow these steps to enable it:

1. In your IR Remote Control press on the Menu Button
2. Go to [About]
3. Enter to [Device ID]
4. Set the ID you like to use on that Display and press OK
5. From that point the Display will get commands only with the correct ID in the command (See **Part A** in the above explanation)

Set Commands:

Set Command Success Replay: 34 30 31 2B 0D

Set Command Fail Replay: 34 30 31 2D 0D

** Please Note, some of the options in this table are not relevant for use in this display.

Event	Cmd(Hex)	Value	Command (HEX, Default ID is 1)	Describe
Power	30	000 : backlight off	3A 30 31 53 30 30 30 30 0d	This function does not power off the display, it is keeping the Main Board, Android Player, and other parts up & running
		001 : backlight on	3A 30 31 53 30 30 30 31 0d	
		002 : power off	3A 30 31 53 30 30 30 32 0d	
		003 : power on	3A 30 31 53 30 30 30 33 0d	
Treble	31	-xx: -5~0	3A 30 31 53 31 2D 30 33 0d	only support RS232, ** for IP use Wake On LAN Magic Pocket protocol (See below how to Enable this function) Please follow the above Command Structure explanation to setup the range of the command(s)
		+xx: 0~5	3A 30 31 53 31 2B 30 33 0d	
Bass	32	-xx: -5~0	3A 30 31 53 32 2D 30 35 0d	
		+xx: 0~5	3A 30 31 53 32 2B 30 35 0d	
Balance	33	-xx: -50~0	3A 30 31 53 33 2D 35 30 0d	
		+xx: 0~50	3A 30 31 53 33 2B 32 30 0d	
Contrast	34	000 ~ 100	3A 30 31 53 34 30 35 30 0d	
Brightness	35	000 ~ 100	3A 30 31 53 35 30 35 30 0d	
Sharpness	36	000 ~ 100	3A 30 31 53 36 30 31 30 0d	
Sound Mode	37	000 : Movie	3A 30 31 53 37 30 30 30 0d	
		001 : Standard	3A 30 31 53 37 30 30 31 0d	
		002 : Custom	3A 30 31 53 37 30 30 32 0d	
		003 : Classroom	3A 30 31 53 37 30 30 33 0d	
		004 : Meeting	3A 30 31 53 37 30 30 34 0d	
Volume	38	000 ~ 100	3A 30 31 53 38 30 35 30 0d	
Mute	39	000: Off	3A 30 31 53 39 30 30 30 0d	
		001: On	3A 30 31 53 39 30 30 31 0d	

Video Source	3A	000 : VGA	3A 30 31 53 3A 30 30 30 0d	
		001 : HDMI1	3A 30 31 53 3A 30 30 31 0d	
		002: HDMI2	3A 30 31 53 3A 30 30 32 0d	
		003 : AV	3A 30 31 53 3A 30 30 33 0d	
		022 : HDMI4	3A 30 31 53 3A 30 32 32 0d	
		021 : HDMI3	3A 30 31 53 3A 30 32 31 0d	
		031 : VGA2	3A 30 31 53 3A 30 33 31 0d	
		032 : VGA3	3A 30 31 53 3A 30 33 32 0d	
		051 : ATV	3A 30 31 53 3A 30 35 31 0d	
		101 : android	3A 30 31 53 3A 31 30 31 0d	
		103 : Slot in PC	3A 30 31 53 3A 31 30 33 0d	
		007 : Display Port	3A 30 31 53 3A 30 30 37 0D	
		102 : android +	3A 30 31 53 3A 31 30 32 0D	
		104 : Type-C1	3A 30 31 53 3A 31 30 34 0D	
		105 : Type-C2	3A 30 31 53 3A 31 30 35 0D	
106: DTV	3A 30 31 53 3A 31 30 36 0D			
107 : YPbpr	3A 30 31 53 3A 31 30 37 0D			

Aspect Ratio	3B	000 : 16:9	3A 30 31 53 3B 30 30 30 0d	
		001 : 4:3	3A 30 31 53 3B 30 30 31 0d	
		002 : PTP	3A 30 31 53 3B 30 30 32 0d	
Language	3C	000: English	3A 30 31 53 3C 30 30 30 0d	
		001: Français	3A 30 31 53 3C 30 30 31 0d	
		002: Español	3A 30 31 53 3C 30 30 32 0d	
		003: 繁中	3A 30 31 53 3C 30 30 33 0d	
		004: 簡中	3A 30 31 53 3C 30 30 34 0d	
		005: Português	3A 30 31 53 3C 30 30 35 0d	
		006: German	3A 30 31 53 3C 30 30 36 0d	
		007: Dutch	3A 30 31 53 3C 30 30 37 0d	
		008: Polish	3A 30 31 53 3C 30 30 38 0d	
		009: Russia	3A 30 31 53 3C 30 30 39 0d	
		010:Czech	3A 30 31 53 3C 30 31 30 0d	
		011:Danish	3A 30 31 53 3C 30 31 31 0d	
		012:Swedish	3A 30 31 53 3C 30 31 32 0d	
		013:Italian	3A 30 31 53 3C 30 31 33 0d	
		014:Romanian	3A 30 31 53 3C 30 31 34 0d	
015:Norwegian	3A 30 31 53 3C 30 31 35 0d			

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		016:Finnish	3A 30 31 53 3C 30 31 36 0d	
		017:Greek	3A 30 31 53 3C 30 31 37 0d	
		018:Turkish	3A 30 31 53 3C 30 31 38 0d	
		019:Arabic	3A 30 31 53 3C 30 31 39 0d	
		020:Japanese	3A 30 31 53 3C 30 32 30 0d	
		021:Ukraine	3A 30 31 53 3C 30 32 31 0d	
Picture Mode	3D	000 : standard	3A 30 31 53 3D 30 30 30 0d	
		001 : bright	3A 30 31 53 3D 30 30 31 0d	
		002 : soft	3A 30 31 53 3D 30 30 32 0d	
		003 : customer	3A 30 31 53 3D 30 30 33 0d	
Hue (Color)	3E	000 ~ 100	3A 30 31 53 3E 30 33 30 0d	
Backlight	3F	000 ~ 100	3A 30 31 53 3F 30 35 30 0d	
Color Temp	40	000 : Cool	3A 30 31 53 40 30 30 30 0d	
		001 : Standard	3A 30 31 53 40 30 30 31 0d	
		002 : Warm	3A 30 31 53 40 30 30 32 0d	
Remote control command	41	000 : Vol +	3A 30 31 53 41 30 30 30 0d	
		001 : Vol -	3A 30 31 53 41 30 30 31 0d	
		010 : Up	3A 30 31 53 41 30 31 30 0d	
		011 : Down	3A 30 31 53 41 30 31 31 0d	
		012 : Left	3A 30 31 53 41 30 31 32 0d	
		013 : Right	3A 30 31 53 41 30 31 33 0d	
		014 : Enter	3A 30 31 53 41 30 31 34 0d	
		020 : Menu	3A 30 31 53 41 30 32 30 0d	
		021 : Input	3A 30 31 53 41 30 32 31 0d	
		022 : Back/Exit	3A 30 31 53 41 30 32 32 0d	
		031 : Blank	3A 30 31 53 41 30 33 31 0d	
		032 : Freeze	3A 30 31 53 41 30 33 32 0d	
		033 : Mute	3A 30 31 53 41 30 33 33 0d	
		034 : Home	3A 30 31 53 41 30 33 34 0d	
IR	42	000: Enable	3A 30 31 53 42 30 30 30 0d	
		001: Disable	3A 30 31 53 42 30 30 31 0d	
Speakers	43	000 : off	3A 30 31 53 43 30 30 30 0d	
		001 : on	3A 30 31 53 43 30 30 31 0d	
Touch	44	000 : off	3A 30 31 53 44 30 30 30 0d	touch disable
		001 : on	3A 30 31 53 44 30 30 31 0d	touch enable
Screen	45	000 : off	3A 30 31 53 45 30 30 30 0d	screen black
		001 : on	3A 30 31 53 45 30 30 31 0d	screen on

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No signal power off	46	000: off	3A 30 31 53 46 30 30 30 0d	
		001 : 1 minute	3A 30 31 53 46 30 30 31 0d	
		003 : 3 minutes	3A 30 31 53 46 30 30 33 0d	
		005 : 5 minutes	3A 30 31 53 46 30 30 35 0d	
		010 : 10 minutes	3A 30 31 53 46 30 31 30 0d	
		015 : 15 minutes	3A 30 31 53 46 30 31 35 0d	
		030 : 30 minutes	3A 30 31 53 46 30 33 30 0d	
		045 : 45 minutes	3A 30 31 53 46 30 34 35 0d	
		060 : 60 minutes	3A 30 31 53 46 30 36 30 0d	

HDMI out	48	000 : off	3A 30 31 53 48 30 30 30 0d	
		001 : on	3A 30 31 53 48 30 30 31 0d	
HDMI out encryption	49	000 : off	3A 30 31 53 49 30 30 30 0d	
		001 : on	3A 30 31 53 49 30 30 31 0d	

On/Off Timer	47	<p>Byte1~Byte9 (1) Byte1: Decide which Timer is selected, and its enable/disable setting. (0000 0000) Byte1[3:0]=0x1~0x07. There are totally 7 Timers, this value is used to decide which Timer is selected.</p> <p>Byte1[7]: Reserved, should be 0.</p> <p>Byte1[6]: The timer is enabled or not. Byte1[6]=1 means enable.</p> <p>Byte1[5]: The on timer is enabled or not. Byte1[5]=1 means enable.</p> <p>Byte1[4]: The off Timer is enabled or not. Byte1[4]=1 means enable.</p> <p>(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. (0000 0000)</p> <p>(3) Byte3: The Hour of the On Timer. Byte3=0x00~0x17.</p> <p>(4) Byte4: The Minute of the On Timer. Byte4=0x00~0x3B.</p> <p>(5) Byte5: The Hour of the Off Timer. Byte5=0x00~0x17.</p>	<p>Off Timer: 09:08 sun 3A 30 31 53 47 51 01 00 00 09 08 00 00 00 0d</p> <p>On Timer: 08:08 sun 3A 30 31 53 47 62 01 08 08 00 00 00 00 00 0d</p> <p>On/Off Timer: 08:08-:09:08 sun 3A 30 31 53 47 73 01 08 08 09 08 00 00 00 0d</p>	<p>3A 30 31 53 47 Byte1 Byte2 Byte3 Byte4 Byte5 Byte6 Byte7 Byte8 Byte9 0d</p>
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		<p>(6) Byte6: The Minute of the Off Timer. Byte6=0x00~0x3B.</p> <p>(7) Byte7,8~9 are reserved, and should be 0x00. (00 00)</p>		
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GET Mode:

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Describe
Power	30	000 : backlight off	3A 30 31 47 30 30 30 30 0D	3A 30 31 72 30 30 30 30 0D	
		001 : backlight on		3A 30 31 72 30 30 30 31 0D	
		002 : power off		3A 30 31 72 30 30 30 32 0D	only support RS232, not support Lan command
Treble	31	-05 ~ +05	3A 30 31 47 31 30 30 30 0D	3A 30 31 72 31 2B 30 35 0D	eg. current treble is +05
Bass	32	-05 ~ +05	3A 30 31 47 32 30 30 30 0D	3A 30 31 72 32 2D 30 35 0D	eg. current bass is -05
Balance	33	-50 ~ +50	3A 30 31 47 33 30 30 30 0D	3A 30 31 72 33 2B 35 30 0D	eg. current balance is +50
Contrast	34	000~100	3A 30 31 47 34 30 30 30 0D	3A 30 31 72 34 30 35 30 0D	eg. current contrast is 50
Brightness	35	000~100	3A 30 31 47 35 30 30 30 0D	3A 30 31 72 35 30 35 30 0D	eg. current brightness is 50
Sharpness	36	000~100	3A 30 31 47 36 30 30 30 0D	3A 30 31 72 36 30 31 30 0D	eg. current sharpness is 10
Sound Mode	37	000 : Movie	3A 30 31 47 37 30 30 30 0D	3A 30 31 72 37 30 30 30 0D	
		001 : Standard		3A 30 31 72 37 30 30 31 0D	
		002 : Custom		3A 30 31 72 37 30 30 32 0D	
		003 : Classroom		3A 30 31 72 37 30 30 33 0D	
		004 : Meeting		3A 30 31 72 37 30 30 34 0D	
Volume	38	000~100	3A 30 31 47 38 30 30 30 0D	3A 30 31 72 38 30 35 30 0D	
Mute	39	000: Off	3A 30 31 47 39 30 30 30 0D	3A 30 31 72 39 30 30 30 0D	
		001: On		3A 30 31 72 39 30 30 31 0D	

Video Source	3A	000 : VGA	3A 30 31 47 3A 30 30 30 0D	3A 30 31 72 3A 30 30 30 0D	
		001 : HDMI1		3A 30 31 72 3A 30 30 31 0D	
		002: HDMI2		3A 30 31 72 3A 30 30 32 0D	
		003 : AV		3A 30 31 72 3A 30 30 33 0D	
		022 : HDMI4		3A 30 31 72 3A 30 32 32 0D	
		021 : HDMI3		3A 30 31 72 3A 30 32 31 0D	
		031 : VGA2		3A 30 31 72 3A 30 33 31 0D	
		032 : VGA3		3A 30 31 72 3A 30 33 32 0D	
		051 : ATV		3A 30 31 72 3A 30 35 31 0D	

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		101 : Android		3A 30 31 72 3A 31 30 31 0D	
		103 : Slot in PC		3A 30 31 72 3A 31 30 33 0D	
		007 : Display Port		3A 30 31 72 3A 30 30 37 0D	
		102 : Android Slot		3A 30 31 72 3A 31 30 32 0D	
		104 : Type C1		3A 30 31 72 3A 31 30 34 0D	
		105 : Type C2		3A 30 31 72 3A 31 30 35 0D	
		106 : DTV		3A 30 31 72 3A 31 30 36 0D	
		107 : YPRBR		3A 30 31 72 3A 31 30 37 0D	
Aspect Ratio	3B	000 : 16:9	3A 30 31 47 3B 30 30 30 0D	3A 30 31 72 3B 30 30 30 0D	
		001 : 4:3		3A 30 31 72 3B 30 30 31 0D	
		002 : PTP		3A 30 31 72 3B 30 30 32 0D	

Language	3C	000: English	3A 30 31 47 3C 30 30 30 0D	3A 30 31 72 3C 30 30 30 0D	
		001: Français		3A 30 31 72 3C 30 30 31 0D	
		002: Español		3A 30 31 72 3C 30 30 32 0D	
		003: 繁中		3A 30 31 72 3C 30 30 33 0D	
		004: 简中		3A 30 31 72 3C 30 30 34 0D	
		005: Portuguese		3A 30 31 72 3C 30 30 35 0D	
		006: German		3A 30 31 72 3C 30 30 36 0D	
		007: Dutch		3A 30 31 72 3C 30 30 37 0D	
		008: Polish		3A 30 31 72 3C 30 30 38 0D	
		009: Russia		3A 30 31 72 3C 30 30 39 0D	
		010:Czech		3A 30 31 72 3C 30 31 30 0D	
		011:Danish		3A 30 31 72 3C 30 31 31 0D	
		012:Swedish		3A 30 31 72 3C 30 31 32 0D	
		013:Italian		3A 30 31 72 3C 30 31 33 0D	
		014:Romanian		3A 30 31 72 3C 30 31 34 0D	
		015:Norwegian		3A 30 31 72 3C 30 31 35 0D	
		016:Finnish		3A 30 31 72 3C 30 31 36 0D	
		017:Greek		3A 30 31 72 3C 30 31 37 0D	
		018:Turkish		3A 30 31 72 3C 30 31 38 0D	
		019:Arabic		3A 30 31 72 3C 30 31 39 0D	
		020:Japanese		3A 30 31 72 3C 30 32 30 0D	
021:Ukraine	3A 30 31 72 3C 30 32 31 0D				

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Picture Mode	3D	000 : standard	3A 30 31 47 3D 30 30 30 0D	3A 30 31 72 3D 30 30 30 0D	
		001 : bright		3A 30 31 72 3D 30 30 31 0D	
		002 : soft		3A 30 31 72 3D 30 30 32 0D	
		003 : customer		3A 30 31 72 3D 30 30 33 0D	
Hue (Color)	3E	000~100	3A 30 31 47 3E 30 30 30 0D	3A 30 31 72 3E 30 33 30 0D	
Backlight	3F	000~100	3A 30 31 47 3F 30 30 30 0D	3A 30 31 72 3F 30 35 30 0D	
Color Temp	40	000 : Cool	3A 30 31 47 40 30 30 30 0D	3A 30 31 72 40 30 30 30 0D	
		001 : Standard		3A 30 31 72 40 30 30 31 0D	
		002 : Warm		3A 30 31 72 40 30 30 32 0D	

Remote control (IR)	42	000: Enable	3A 30 31 47 42 30 30 30 0D	3A 30 31 72 42 30 30 30 0D	
		001: Disable		3A 30 31 72 42 30 30 31 0D	
Speakers	43	000 : off	3A 30 31 47 43 30 30 30 0D	3A 30 31 72 43 30 30 30 0D	
		001 : on		3A 30 31 72 43 30 30 31 0D	
HDCP1.X	0x53	000	3A 30 31 47 53 30 30 30 0D	3A 30 31 72 53 30 20 ** 0D	
HDCP2.X		001	3A 30 31 47 53 30 30 31 0D	3A 30 31 72 53 31 20 ** 0D	
SN		002	3A 30 31 47 53 30 30 32 0D	3A 30 31 72 53 32 20 ** 0D	
MAC		003	3A 30 31 47 53 30 30 33 0D	3A 30 31 72 53 33 20 ** 0D	
Model Name		004	3A 30 31 47 53 30 30 34 0D	3A 30 31 72 53 34 20 ** 0D	
Model Version		005	3A 30 31 47 53 30 30 35 0D	3A 30 31 72 53 35 20 ** 0D	
Touch		44	000 : off	3A 30 31 47 44 30 30 30 0D	3A 30 31 72 44 30 30 30 0D
	001 : on		3A 30 31 72 44 30 30 31 0D		
Screen	45	000 : off	3A 30 31 47 45 30 30 30 0D	3A 30 31 72 45 30 30 30 0D	
		001 : on		3A 30 31 72 45 30 30 31 0D	
No Signal power off	46	0~60	3A 30 31 47 46 30 30 30 0D	3A 30 31 72 46 30 3* 3* 0D	
HDMI out	48	000 : off	3A 30 31 47 48 30 30 30 0D	3A 30 31 72 48 30 30 30 0D	
		001 : on		3A 30 31 72 48 30 30 31 0D	
HDMI encryption	49	000 : off	3A 30 31 47 49 30 30 30 0D	3A 30 31 72 49 30 30 30 0D	
		001 : on		3A 30 31 72 49 30 30 31 0D	

On/Off Timer	47	(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 reserved, should be 0x00.	3A 30 31 47 47 01 00 00 00 00 00 00 00 0D	
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END.