CP5505/CP7505
CM5505/CM7505

RS232 & LAN Protocol Installation Guide

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Introduction

This document describes the hardware interface spec and software protocols of RS232 interface 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

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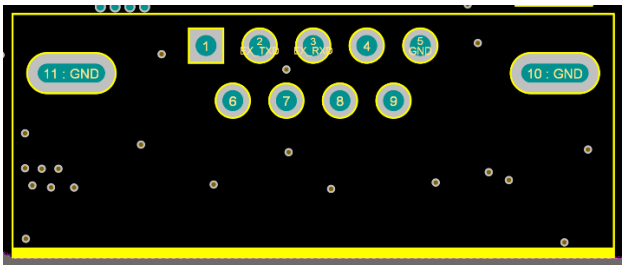
In this document, "PC" represents all the control units that can send or receive the RS232 protocol command.

RS232 pin assignment



Communication setting

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

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

Command message reference

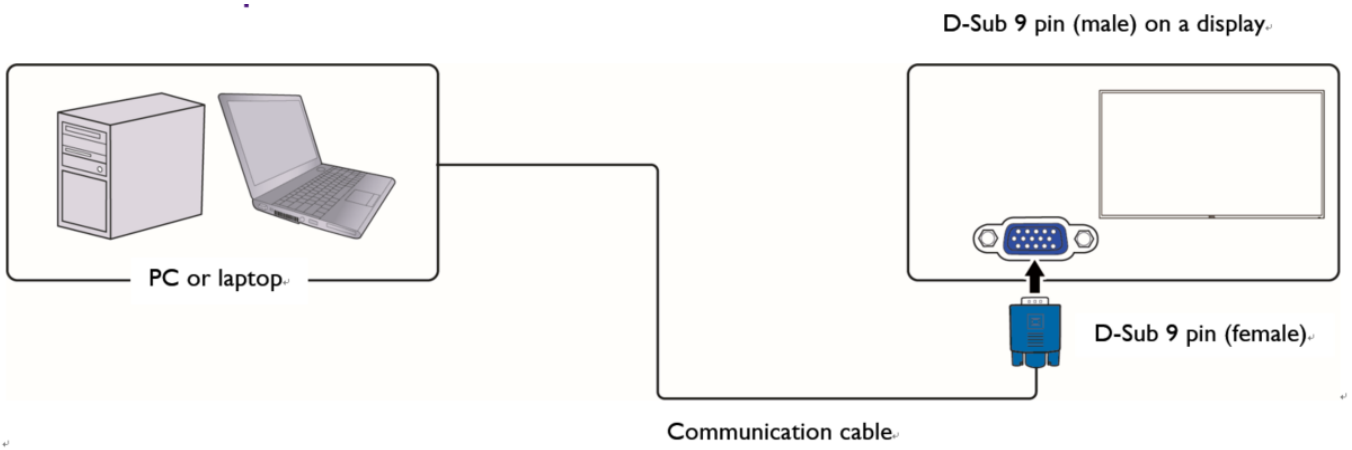
PC sends to Monitor command packet followed by "CR". Every time PC sends control command to the Monitor, the Monitor shall response as follows:

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).

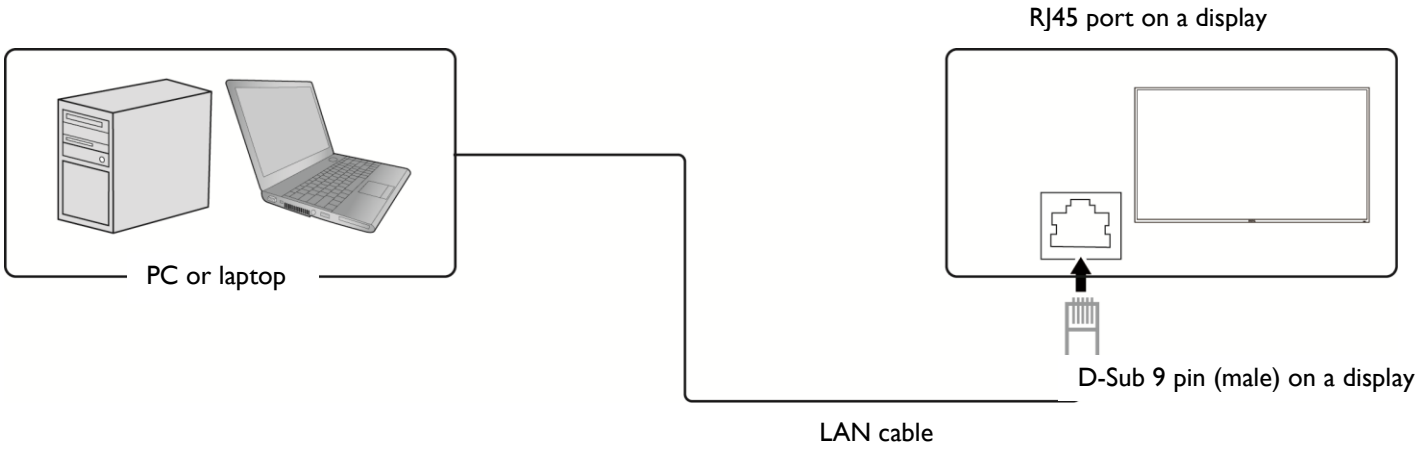
Connections and communication settings

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

Protocol Command Description

Item	Description
Length	Total Bytes of Message excluding "CR"
TV ID	Identification for each of TV TV ID is “01” for LAN control & RS232 control

D-Sub 9 pin (male) on a display

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"
TV ID	Identification for each of TV TV 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 (ASCII Bytes)	LAN (ASCII Bytes)
Power	8	1	s	21	000 : Sleep	000 : Sleep
					001 : On	001 : On
					002 : Standby (or android off)	002 : Standby (android off)
					003 : Reboot	003 : Reboot
Video Source					001 : HDMI	001 : HDMI
					051 : Type-C	051 : Type-C
					101 : Android	101 : android
					102 : OPS	102 : OPS
Contrast	8	1	s	23	000 ~ 100	000 ~ 100
Brightness	8	1	s	24	000 ~ 100	000 ~ 100
Picture reset	8	1	s	26	000 :	000 :
Aspect Ratio	8	1	s	31	000 : 16:9	000 : 16:9
					002 : PTP	002 : PTP
Language	8	1	s	32	000: English	000: English
					001: Français	001: Français
					002: Español	002: Español
					003: 繁中	003: 繁中
					004: 简中	004: 简中
					005: Português	005: Português
					006: German	006: German
					007: Dutch	007: Dutch
					008: Polish	008: Polish
					009: Russia	009: Russia
					010:Czech	010:Czech
					011:Danish	011:Danish
					012:Swedish	012:Swedish
					013:Italian	013:Italian
					014:Romanian	014:Romanian
					015:Norwegian	015:Norwegian
					016:Finnish	016:Finnish
					017:Greek	017:Greek
					018:Turkish	018:Turkish
					019:Arabic	019:Arabic
					020:Japanse	020:Japanse

					021: Thailand	021: Thailand
					022: Korean	022: Korean
					023 : Hungarian	023 : Hungarian
					024 : Persian	024 : Persian
					025 : Vietnamese	025 : Vietnamese
					026 : Indonesia	026 : Indonesia
					027 : Hebrew	027 : Hebrew
Sound Mode	8	1	s	33	000 : Cinema	000 : Cinema
					001 : Standard	001 : Standard
					003 : Music	003 : Music
					005 : News	005 : News
					006 : Sports	006 : Sports
Volume	8	1	s	35	000 ~ 100	000 ~ 100
Mute	8	1	s	36	000: Off	000: Off
					001: On	001: On
Balance	8	1	s	39	000~100	000~100
Sound reset	8	1	s	3B	000	000
Remote control command	8	1	s	40	000 : Vol +	000 : Vol +
					001 : Vol -	001 : Vol -
					010 : Remote 上	010 : Remote 上
					011 : Remote 下	011 : Remote 下
					012 : Remote 左	012 : Remote 左
					013 : Remote 右	013 : Remote 右
					014 : Remote OK	014 : Remote OK
					020 : Remote Menu Key	020 : Remote Menu Key
					022 : Remote Exit	022 : Remote Exit
					031 : Blank	031 : Blank
					032 : Freeze	032 : Freeze
IR Control	8	1	s	42	000: Disable	000: Disable
					001: Enable	001: Enable
Button&IR Control	8	1	s	43	000: Disable	000: Disable
					001: Enable	001: Enable
Button Control	8	1	s	45	000: Disable	000: Disable
					001: Enable	001: Enable
Pixel Shift	8	1	s	47	000: Off	000: Off
					001: On	001: On

Screen Reset	8	1	s	7F	000	000
All Reset	8	1	s	7E	000	000
Picture Mode		1	s	81	000: Eco	000: Eco
					001:Pantone	001:Pantone
					002:M-book	002:M-book
					003:High-detail	003:High-detail
					004:ePaper	004:ePaper
					005:DICOM	005:DICOM
					006: Custom 1	006: Custom 1
					007: Custom 2	007: Custom 2
Saturation	8	1	s	82	000 ~ 100	000 ~ 100
Backlight	8	1	s	84	000 ~ 100	000 ~ 100
DCR	8	1	s	85	000: Off	000: Off
					001: On	001: On
Color Temp	8	1	s	86	000 : Cool	000 : Cool
					001 : Normal	001 : Normal
					002 : Warm	002 : Warm
Ambient Light Sensor(Auto Backlight)	8	1	s	95	000: Off	000: Off
					001: On	001: On
RTC Year	8	1	s	98	000 ~ 099	000 ~ 099
RTC Month	8	1	s	99	001 ~ 012	001 ~ 012
RTC Day	8	1	s	9A	001 ~ 031	001 ~ 031
RTC Hour	8	1	s	9B	000 ~ 023	000 ~ 023
RTC Minute	8	1	s	9C	000 ~ 059	000 ~ 059
Power Save=> No input signal	8	1	s	A9	000: Off	000: Off
					001: Low	001: Low
					002: High	002: High
Switch on Status	8	1	s	AB	000 : Power Off	000 : Power Off
					001 : Force On	001 : Force On
					002 : Last Status	002 : Last Status

On/Off Timer	14	1	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 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 Everyday. (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=HDMI, 0x02=HDMI1, 0x15=HDMI2, 0x33=Type-C 0x65=Android, 0x66=OPS, 0xFF=Default (系統關機前的訊號源) Other values are reserved. (8) Byte8~9 are reserved, and should be 0x00.	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 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 Everyday. (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=HDMI, 0x02=HDMI1, 0x15=HDMI2, 0x33=Type-C 0x65=Android, 0x66=OPS, 0xFF=Default (系統關機前的訊號源) Other values are reserved. (8) Byte8~9 are reserved, and should be 0x00.
WOL	8	1	s	F0	000: Off	000: Off
					001: On	001: On

Image Noise Reduction	8	1	s	F1	000: Off	000: Off
					001: On	001: On
EDID	8	1	s	F2	000 : EDID 1.4 (4K @ 30 Hz)	000 : EDID 1.4 (4K @ 30 Hz)
					001 : EDID 2.0 (4K @ 60Hz)	001 : EDID 2.0 (4K @ 60Hz)
Type-C Output	8	1	s	F4	000: Off	000: Off
					001: On	001: On
Sleep mode	8	1	s	F6	000 ~ 240	000 ~ 240
Power off timer	8	1	s	FA	000 ~ 240 000 : OFF 001: 1min 005: 5min 010 :10min 020: 20min 030: 30min 040: 40min 050: 50min 060: 1hr 120: 2hr 180: 3hr 240: 4hr	000 ~ 240 000 : OFF 001: 1min 005: 5min 010 :10min 020: 20min 030: 30min 040: 40min 050: 50min 060: 1hr 120: 2hr 180: 3hr 240: 4hr

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"
TV ID	Identification for each of TV TV 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 to IFP

Get Function	Len	ID	Cmd Type	Cmd Code (Hex)	RS232	LAN
Model Info	20	1	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=0x05: Get LAN 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 Version=1.02, Byte1=0x03, Byte2='1', Byte3='.', Byte4='0', Byte5='2', Byte6~Byte11=0x00.	(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=0x05: Get LAN 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 Version=1.02, Byte1=0x03, Byte2='1', Byte3='.', Byte4='0', Byte5='2', Byte6~Byte11=0x00.
Signal Status	8	1	g	22	000: Signal unstable	000: Signal unstable
					001: Signal stable (Active Sync exists)	001: Signal stable (Active Sync exists)
Balance	8	1	g	39	000~100	000~100
Contrast	8	1	g	61	000 ~ 100	000 ~ 100
Brightness	8	1	g	62	000 ~ 100	000 ~ 100
Sound Mode	8	1	g	65	000 : Cinema	000 : Cinema
					001 : Standard	001 : Standard
					003 : Music	003 : Music
					005 : News	005 : News

					006 : Sports	006 : Sports
Volume	8	1	g	66	000 ~ 100	000 ~ 100
Mute	8	1	g	67	000: Off	000: Off
					001: On	001: On
IR Control	8	1	g	68	000: Disable	000: Disable
					001: Enable	001: Enable
Button&IR Control	8	1	g	69	000: Disable	000: Disable
					001: Enable	001: Enable
Video Source					001 : HDMI	001 : HDMI
					051 : Type-C	051 : Type-C
					101 : Android	101 : android
					102 : OPS	102 : OPS
Power	8	1	g	6C	000 :Sleep	000 :Sleep
					001 : On	001 :On
					002 : Standby (or android off)	X
Pixel Shift	8	1	g	72	000: Off	000: Off
					001: On	001: On
Button Control	8	1	g	73	000: Disable	000: Disable
					001: Enable	001: Enable
Operation Time	10	1	g	76	00000 ~ 99999	00000 ~ 99999
Aspect Ratio	8	1	g	77	000 : 16:9	000 : 16:9
					002 : PTP	002 : PTP
Language	8	1	g	78	000: English	000: English
					001: Français	001: Français
					002: Español	002: Español
					003: 繁中	003: 繁中
					004: 简中	004: 简中
					005: Português	005: Português
					006: German	006: German
					007: Dutch	007: Dutch
					008: Polish	008: Polish
					009: Russia	009: Russia
					010:Czech	010:Czech
					011:Danish	011:Danish
					012:Swedish	012:Swedish
					013:Italian	013:Italian
					014:Romanian	014:Romanian
					015:Norwegian	015:Norwegian
					016:Finnish	016:Finnish

					017:Greek	017:Greek
					018:Turkish	018:Turkish
					019:Arabic	019:Arabic
					020:Japanse	020:Japanse
					021: Thailand	021: Thailand
					022: Korean	022: Korean
					023 : Hungarian	023 : Hungarian
					024 : Persian	024 : Persian
					025 : Vietnamese	025 : Vietnamese
					026 : Indonesia	026 : Indonesia
					027 : Hebrew	027 : Hebrew
Picture Mode	8	1	g	B1	000: Eco	000: Eco
					001:Pantone	001:Pantone
					002:M-book	002:M-book
					003:High-detail	003:High-detail
					004:ePaper	004:ePaper
					005:DICOM	005:DICOM
					006: Custom 1	006: Custom 1
					007: Custom 2	007: Custom 2
Saturation	8	1	g	B2	000 ~ 100	000 ~ 100
Backlight	8	1	g	B4	000 ~ 100	000 ~ 100
DCR	8	1	g	B5	000: Off	000: Off
					001: On	001: On
Color Temp	8	1	g	B6	000 : Cool	000 : Cool
					001 : Normal	001 : Normal
					002 : Warm	002 : Warm
Ambient Light Sensor (Auto Backlight)	8	1	g	C5	000: Off	000: Off
					001: On	001: On
RTC Year	8	1	g	C8	000 ~ 099	000 ~ 099
RTC Month	8	1	g	C9	001 ~ 012	001 ~ 012
RTC Day	8	1	g	CA	001 ~ 031	001 ~ 031
RTC Hour	8	1	g	CB	000 ~ 023	000 ~ 023
RTC Minute	8	1	g	CC	000 ~ 059	000 ~ 059
Power Save=> No input signal	8	1	g	D9	000: Off	000 : Off
					001: Low	001 : Low
					002: High	002 : High
Switch on Status	8	1	g	DA	000 : Power Off	000 : Power Off

					001 : Force On	001 : Force On
					002 : Last Status	002 : Last Status
On/Off Timer	14	1	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 reserved, should be 0x00. Return value: Byte1 - Byte2 - Byte3…Byte9 (1) Byte1[3:0]: Should return 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 Everyday. (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=HDMI, 0x02=HDMI1, 0x15=HDMI2, 0x33=Type-C	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 reserved, should be 0x00. Return value: Byte1 - Byte2 - Byte3…Byte9 (1) Byte1[3:0]: Should return 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 Everyday. (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=HDMI, 0x02=HDMI1, 0x15=HDMI2, 0x33=Type-C 0x65=Android, 0x66=OPS, 0xFF=Default (signal source before power off) Other values are reserved. 0x0A=Network, 0x0B=USB Display 0xFF=Default. Other values are reserved. (8) Byte8~9 are reserved, and should be 0x00.

					0x65=Android, 0x66=OPS, 0xFF=Default (signal source before power off) Other values are reserved. 0xFF=Default. Other values are reserved. (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 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)	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: current connected MAC Address Byte1=0x07: Ethernet (RJ45) 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 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.

					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.	(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.
WOL	8		g	F0	000: Off	000: Off
					001: On	001: On
EDID	8		g	F2	000 : EDID 1.4 (4K @ 30 Hz)	000 : EDID 1.4 (4K @ 30 Hz)
					001 : EDID 2.0 (4K @ 60Hz)	001 : EDID 2.0 (4K @ 60Hz)
Type-C Output	8		g	F4	000: Off	000: Off
					001: On	001: On
Sleep mode	8		g	F6	000 ~ 240	000 ~ 240

Power off timer	8		g	FA	000 ~ 240 000 : OFF 001: 1min 005: 5min 010 :10min 020: 20min 030: 30min 040: 40min 050: 50min 060: 1hr 120: 2hr 180: 3hr 240: 4hr	000 ~ 240 000 : OFF 001: 1min 005: 5min 010 :10min 020: 20min 030: 30min 040: 40min 050: 50min 060: 1hr 120: 2hr 180: 3hr 240: 4hr