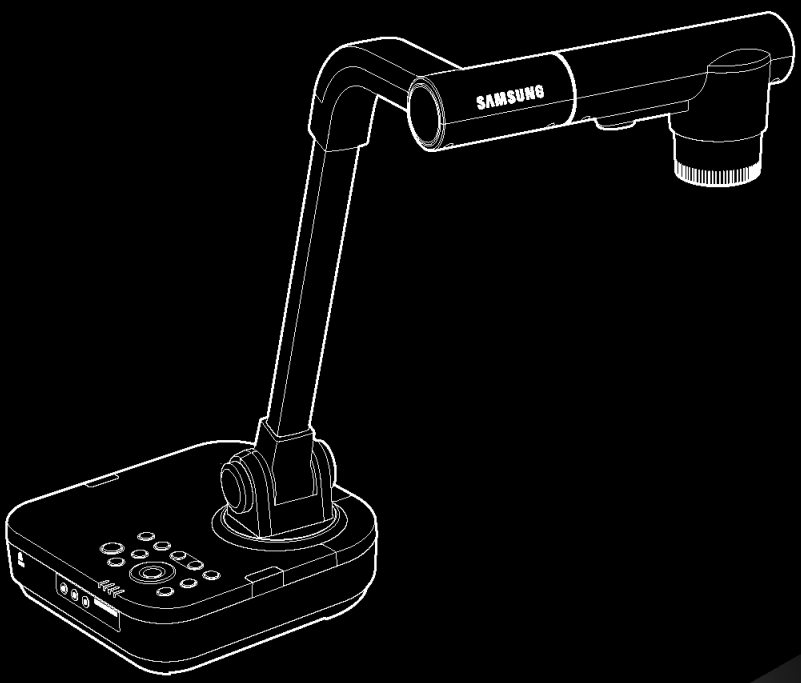
SAMSUNG

ENGLISH



DIGITAL PRESENTER

RS-232C Protocol

SDP-860

SDP-860 RS-232C Command Code

1. Communication Format

■ Communication Protocol

- specification : RS-232C
- communication speed : 57600bps
- start bit : 1 bit
- data bit : 8 bits
- parity bit : none
- stop bit : 1 bit

■ Communication Packet Format

- Total 10bytes

Command Packet									
Head	CMD	Rsrvd	P1(SC)	P2	D1	D2	D3	D4	Tail

Return Packet									
Head	CMD	ACK	P1(SC)	P2	D1	D2	D3	D4	Tail

- Head(Start Code) : 0xA0 / Tail(End Code) : 0xAF
- CMD : 0x00~0xFF, sub CMD : P1(0x00~0xFF)
- Parameter & Data : P1(MSB)~P2(LSB), D1(MSB)~D4(LSB)

SDP-860 RS-232C Command Code

No.	Command Name	COMMNUNICATION_CHECK									
1	Function	Check the Set Communication Status									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x00	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	ACK : 0x80 - Communication Success & Set Ready 0x81 - Set is executing command by panel-key 0x82 - Set is executing command by remote control									

No.	Command Name	Auto White Balance									
2	Function	AWB → SET									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x01	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x01	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	It is available in AWB MODE									

No.	Command Name	Auto Focus									
3	Function	Auto Focus									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x02	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x02	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data										

SDP-860 RS-232C Command Code

No.	Command Name	LAMP									
4	Function	LAMP ON/OFF Toggle									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x03	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x03	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data										

No.	Command Name	FREEZE									
5	Function	FREEZE ON/OFF Toggle									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x04	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x04	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data										

No.	Command Name	ESC									
6	Function	Escape Function									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x05	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x05	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	OSD Menu - EXIT without save Macro/Microscope mode - EXIT the function PIC Viewer - Back to the list Movie Player - Back to the list									

SDP-860 RS-232C Command Code

No.	Command Name	PICTURE CAPTURE									
7	Function	Capturing Picture (JPEG/BMP) in Live Mode									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x07	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x07	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data										

No.	Command Name	MOVIE CAPTURE									
8	Function	Start / Stop Toggle to Record Movie in Live Mode									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x08	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x08	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data										

No.	Command Name	MODE									
9	Function	Changing Live / PIC Viewer / MOV Viewer Mode									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x09	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x09	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data										

SDP-860 RS-232C Command Code

No.	Command Name	SET									
10	Function	Various functions at each mode.									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x0A	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x0A	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	Live Mode - OSD Menu, Enter Key PIC Viewer - Select picture. Enter Key MOV Viewer - Select movie. Play/Pause									

No.	Command Name	UP									
11	Function	Up Key in OSD Menu & Viewer									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x0B	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x0B	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	Live Mode - OSD Menu UP Key PIC/MOV Viewer - Up Key Movie Player - Volume Up									

No.	Command Name	DOWN									
12	Function	Down Key in OSD Menu & Viewer									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x0C	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x0C	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	Live Mode - OSD Menu Down Key PIC/MOV Viewer - Down Key Movie Player - Volume Down									

SDP-860 RS-232C Command Code

No.	Command Name	RIGHT									
13	Function	Right Key in OSD Menu & Viewer									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x0D	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x0D	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	Live Mode - OSD Menu Right Key PIC/MOV Viewer - Right Key Movie Player - Fast Forward									

No.	Command Name	LEFT									
14	Function	LEFT KEY in OSD Menu & Viewer									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x0E	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x0E	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	Live Mode - OSD Menu Left Key PIC/MOV Viewer - Left Key Movie Player - Backward									

No.	Command Name	BRIGHTNESS									
15	Function	BRIGHTNESS CONTROL									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x21	0x00	PAR1	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x21	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	PAR1: 0x05 - BRIGHTNESS UP 0x0A - BRIGHTNESS DOWN									

SDP-860 RS-232C Command Code

No.	Command Name	FOCUS									
16	Function	MANUAL FOCUS CONTROL									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x25	0x00	PAR1	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x25	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	PAR1: 0x05 - Far 0x0A - Near									

No.	Command Name	ZOOM									
17	Function	ZOOM CONTROL									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x26	0x00	PAR1	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x26	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	PAR1: 0x05 - Tele 0x0A - Wide									

No.	Command Name	STOP									
18	Function	Drive Stop									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x2F	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x2F	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	ZOOM / FOCUS / BRIGHTNESS DRIVING STOP									

SDP-860 RS-232C Command Code

No.	Command Name	FULL SCREEN									
19	Function	Full Screen Function in Viewer Mode									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x30	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x30	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	PIC Viewer - Enlarge the selected thumbnail image. Movie Player - Set movie to the Full screen									

No.	Command Name	NEXT									
20	Function	Next Page, Next File in Viewer Mode									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x31	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x31	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	PIC Viewer - Next Page MOV Viewer - Next Folder Movie Player - Next Movie File									

No.	Command Name	PREV									
21	Function	Previous Page, Previous File in Viewer Mode									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x32	0x00	PAR1	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x32	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data	PIC Viewer - Previous Page MOV Viewer - Previous Folder Movie Player - Previous Movie File									

SDP-860 RS-232C Command Code

No.	Command Name	DELETE									
22	Function	Delete the selected files in Viewer Mode									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x33	0x00	PAR1	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x33	ACK	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Sub Command & Parameter, Data										

No.	Command Name	Get Status									
23	Function	Get SetStatus									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x60	0x00	PAR1	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x60	ACK	Data1	Data2	Data3	Data4	Data5	Data6	0xAF
	Sub Command & Parameter, Data										

SDP-860 RS-232C Command Code

0x60	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Data1	Mode		Video Setting			AWB Mode		Rotate
Data2	DNR Mode		IMG MODE		D-ZOOM MODE		SHARPNESS	
Data3	TONE			COLOR		PIC FORMAT	JPEG QUALITY	
Data4	MPEG Q	TIME ELAPSE			MIC MUTE	FREEZE TYPE		
Data5	FREEZE	LAMP	INT/EXT	Macro	Micro			
Data6	BRIGHTNESS VALUE							

- Mode - 0:Live, 1:PIC Viewer, 2:MOV Viewer
- Video - 0:SXGA, 1:UXGA, 2:XGA, 3:720p Cut-Out, 4:1080p Cut-Out, 5:720p Stretched, 6:1080p Stretched
- AWB - 0:ATW, 1:AWB→SET, 2:Manual WB
- Rotation - 0:0, 1:180
- DNR - 0:OFF, 1:AUTO, 2:MAX
- IMG Mode - 0:TEXT, 1:IMAGE, 2:CUSTOM
- D-ZOOM MODE - 0: DZ OFF, 1: MAX 4x, 2: MAX 8x
- SHARPNESS - 0:LOW, 1:MIDDLE, 2:HIGH
- TONE - 0: Very Low, 1: Low, 2: Middle, 3: High, 4:Very High
- COLOR - 0: Low, 1:Middle, 2:High, 3:B/W
- PIC FORMAT - 0:JPEG, 1:BMP
- JPEG QUALITY - 0:BEST,1:FINE,2:NORMAL
- MPEG QUALITY - 0:BEST,1:STANDARD
- TIME ELAPSE - 0:OFF, 1:5MIN, 2:10MIN, 3:15MIN, 4:20MIN, 5:30MIN, 6:45MIN, 7:1HR
- MIC MUTE - 0:MIC OFF (MUTE),1: MIC ON
- FREEZE TYPE - 0:DVI/VGA ONLY, 1:ALL(USB/SD/DVI/VGA)
- FREEZE - 0:FREEZE OFF, 1:FREEZE ON
- LAMP - 0: LAMP OFF, 1:LAMP ON
- INT/EXT - 0:INT, 1:EXT
- Macro - 0:Macro Mode Off, 1:Macro Mode On
- Micro - 0:Microscope Mode Off, 1:Microscope Mode On

SDP-860 RS-232C Command Code

No.	Command Name	Get Zoom/Focus Position									
24	Function	Get Zoom/Focus Position									
	Remark										
		Head	CMD	Rsrvd	P1	P2	D1	D2	D3	D4	Tail
	Command Packet	0xA0	0x60	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0xAF
	Return Packet	0xA0	0x60	ACK	0x00	0x00	Zoom1	Zoom2	Focus1	Focus2	0xAF
	Sub Command & Parameter,Data	Zoom1(MSB)/Zoom2(LSB) : Zoom Position Focus1(MSB)/Focus2(LSB) : Focus Position									

MEMO

MEMO

MEMO

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