



**SAMSUNG**

**TECHWIN**

**Touchboards**

205 Westwood Ave, Long Branch, NJ 07740  
Phone: 866-94 BOARDS (26273) / (732)-222-1511  
Fax: (732)-222-7088 | E-mail: sales@touchboards.com



**SDP-6500**

**HIGH RESOLUTION DIGITAL PRESENTER  
User's Manual (RS232C Reference)**

Before attempting to operate this product, please read the instructions carefully.

[www.samsungpresenter.com](http://www.samsungpresenter.com)

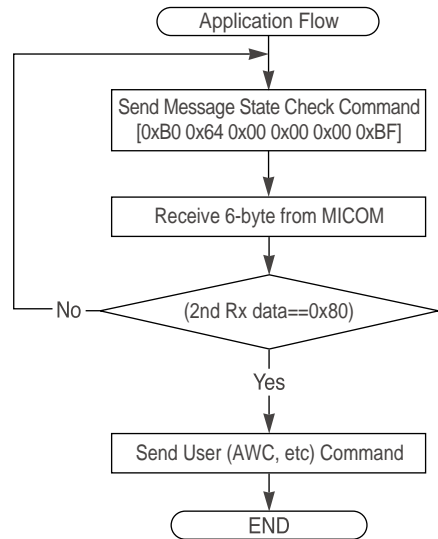
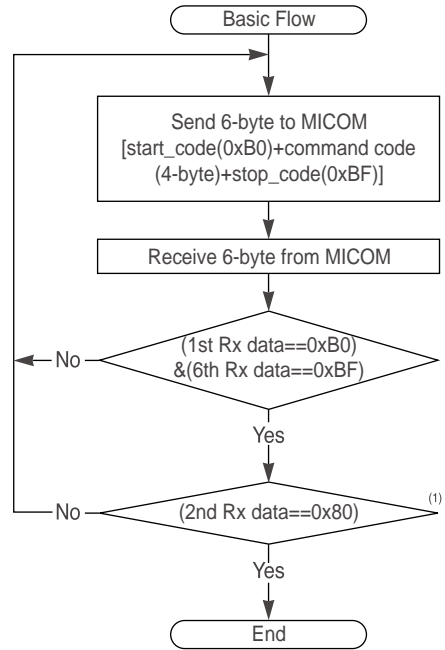
[www.touchboards.com](http://www.touchboards.com) 205 Westwood Ave. Long Branch, NJ 07740 1-866-942-6273 Sales@touchboards.com

# SDP-6500 RS232C PC-side FlowChart

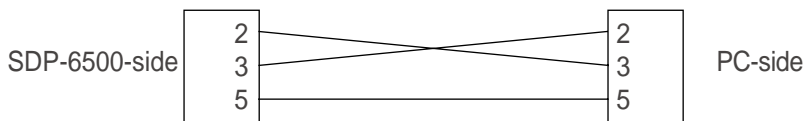
- Baud Rate: 9600bps
- Parity Bit: No Parity
- Stop Bit Length: 1-bit
- Character Length: 8-bit
- Start Code: 0 x B0
- Stop Code: 0 x BF
- Command Code: 4-byte

**(Note1 2nd Rx data = 0 x 80)**

What the 2nd-Rx-data ("ACK data") is not 0 x 80 means that the system is doing other operation. (Check up page 6)  
 With the command "Message-Status", you can check up current status of the system and send the user command. (AWC, etc.)



## SDP-6500 RS232C Cable Connection



## RS232C COMMAND CODE (SDP-6500)

Command	PC Transmit Data to MICOM				PC Receive Data from MICOM				Remark
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
AWC	0 x 01	0 x 00	0 x 05	0 x 00	0 x 01	<u>"ACK data"</u>	0 x 05	0 x 00	
AF	0 x 02	0 x 00	0 x 05	0 x 00	0 x 02	<u>"ACK data"</u>	0 x 05	0 x 00	
Upper Lamp	0 x 03	0 x 00	0 x 05	0 x 00	0 x 03	<u>"ACK data"</u>	0 x 05	0 x 00	
Lower Lamp		0 x 00	0 x 08	0 x 00		<u>"ACK data"</u>	0 x 08	0 x 00	
Lamp OFF		0 x 00	0 x 0A	0 x 00		<u>"ACK data"</u>	0 x 0A	0 x 00	
Internal	0 x 04	0 x 00	0 x 05	0 x 00	0 x 04	<u>"ACK data"</u>	0 x 05	0 x 00	
External 1		0 x 00	0 x 08	0 x 00		<u>"ACK data"</u>	0 x 08	0 x 00	
External 2		0 x 00	0 x 0A	0 x 00		<u>"ACK data"</u>	0 x 0A	0 x 00	
Positive	0 x 05	0 x 00	0 x 05	0 x 00	0 x 05	<u>"ACK data"</u>	0 x 05	0 x 00	
Negative		0 x 00	0 x 0A	0 x 00		<u>"ACK data"</u>	0 x 0A	0 x 00	
SXGA mode	0 x 06	0 x 00	0 x 05	0 x 00	0 x 06	<u>"ACK data"</u>	0 x 05	0 x 00	
XGA mode		0 x 00	0 x 08	0 x 00		<u>"ACK data"</u>	0 x 08	0 x 00	
SVGA mode		0 x 00	0 x 0A	0 x 00		<u>"ACK data"</u>	0 x 0A	0 x 00	
NTSC system	0 x 08	0 x 00	0 x 05	0 x 00	0 x 08	<u>"ACK data"</u>	0 x 05	0 x 00	
PAL system		0 x 00	0 x 0A	0 x 00		<u>"ACK data"</u>	0 x 0A	0 x 00	
Aperture ON	0 x 09	0 x 00	0 x 05	0 x 00	0 x 09	<u>"ACK data"</u>	0 x 05	0 x 00	
Aperture OFF		0 x 00	0 x 0A	0 x 00		<u>"ACK data"</u>	0 x 0A	0 x 00	

## RS232C COMMAND CODE (SDP-6500)

Command	PC Transmit Data to MICOM				PC Receive Data from MICOM				Remark
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
Power On	0 x 0F	0 x 00	0 x 05	0 x 00	0 x 0F	"ACK data"	0 x 05	0 x 00	
Power OFF		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Rotate OFF	0 x 11	0 x 00	0 x 05	0 x 00	0 x 11	"ACK data"	0 x 05	0 x 00	
Rotate 90°		0 x 00	0 x 08	0 x 00		"ACK data"	0 x 08	0 x 00	
Rotate 180°		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Rotate 270°		0 x 00	0 x 0D	0 x 00		"ACK data"	0 x 0D	0 x 00	
Freeze ON	0 x 12	0 x 00	0 x 05	0 x 00	0 x 12	"ACK data"	0 x 05	0 x 00	
Freeze OFF		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Image Save	0 x 13	0 x 00	Number	0 x 00	0 x 13	"ACK data"	Number	0 x 00	Range:"1~8"
Image Recall	0 x 14	0 x 00	Number	0 x 00	0 x 14	"ACK data"	Number	0 x 00	Range:"1~8"
<sup>(1)</sup> Image Recall	0 x 15	0 x 00	Number	0 x 00	0 x 15	"ACK data"	Number	0 x 00	Range:"1~9"
Image Shift	0 x 16	0 x 00	0 x 05	0 x 00	0 x 16	"ACK data"	0 x 05	0 x 00	
Preset Save	0 x 17	0 x 00	Number	0 x 00	0 x 17	"ACK data"	Number	0 x 00	Range:"1~4"
Preset Exe	0 x 18	0 x 00	Number	0 x 00	0 x 18	"ACK data"	Number	0 x 00	Range:"1~4"
Recall, divide, 3x3 multi-screen Cancel	0 x 1F	0 x 00	0 x 05	0 x 00	0 x 1F	"ACK data"	0 x 05	0 x 00	

**[Note]** Transmitting number "9" in image divide command, the system executes 3x3 multi-screen mode.

## RS232C COMMAND CODE (SDP-6500)

Command	PC Transmit Data to MICOM				PC Receive Data from MICOM				Remark
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
Brightness Up	0 x 21	0 x 00	0 x 05	0 x 00	0 x 21	"ACK data"	0 x 05	0 x 00	
Brightness Down		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Red Up	0 x 23	0 x 00	0 x 05	0 x 00	0 x 23	"ACK data"	0 x 05	0 x 00	
Red Down		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Blue Up	0 x 24	0 x 00	0 x 05	0 x 00	0 x 24	"ACK data"	0 x 05	0 x 00	
Blue Down		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Focus FAR	0 x 25	0 x 00	0 x 05	0 x 00	0 x 25	"ACK data"	0 x 05	0 x 00	
Focus NEAR		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Zoom Tele	0 x 26	0 x 00	0 x 05	0 x 00	0 x 26	"ACK data"	0 x 05	0 x 00	
Zoom Wide		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
<sup>(1)</sup> Drive Stop	0 x 2F	0 x 00	0 x 05	0 x 00	0 x 2D	"ACK data"	0 x 05	0 x 00	

**[Note]** Above 10 Command (Brightness, Red, Blue, Focus, Zoom) will go to all the way once you execute it.  
 "Drive Stop" code can stop those command in certain point that you want.

## RS232C COMMAND CODE (SDP-6500)

Command	PC Transmit Data to MICOM				PC Receive Data from MICOM				Remark
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
Brightness Target	0 x 41	0 x 00	0 x 00	Target	0 x 41	"ACK data"	0 x 00	Target	Range:"1-120"
Red Target	0 x 43	0 x 00	0 x 00	Target	0 x 43	"ACK data"	0 x 00	Target	Range:"1-200"
Blue Target	0 x 44	0 x 00	0 x 00	Target	0 x 44	"ACK data"	0 x 00	Target	Range:"1-200"
Focus Target	0 x 45	0 x 00	Target(MSB)	Target(LSB)	0 x 45	"ACK data"	Target(MSB)	Target(LSB)	Range:"0-700"
Zoom Target	0 x 46	0 x 00	Target(MSB)	Target(LSB)	0 x 46	"ACK data"	Target(MSB)	Target(LSB)	Range:"0-1667"
Focus/Zoom Target	0 x 47	0 x 05	Zoom(MSB)	Zoom(LSB)	0 x 47	"ACK data"	Zoom(MSB)	Zoom(LSB)	(1)Focus:"0-700"
		0 x 0A	Focus(MSB)	Zoom(LSB)		"ACK data"	Focus(MSB)	Zoom(LSB)	Zoom:"0-1667"

**[Note]** Depending of the zoom amount, the range of focus data will be changed.

You can figure it out to see page 5. ("Focus-Status(Max)", "Focus-Status(Min)" command)

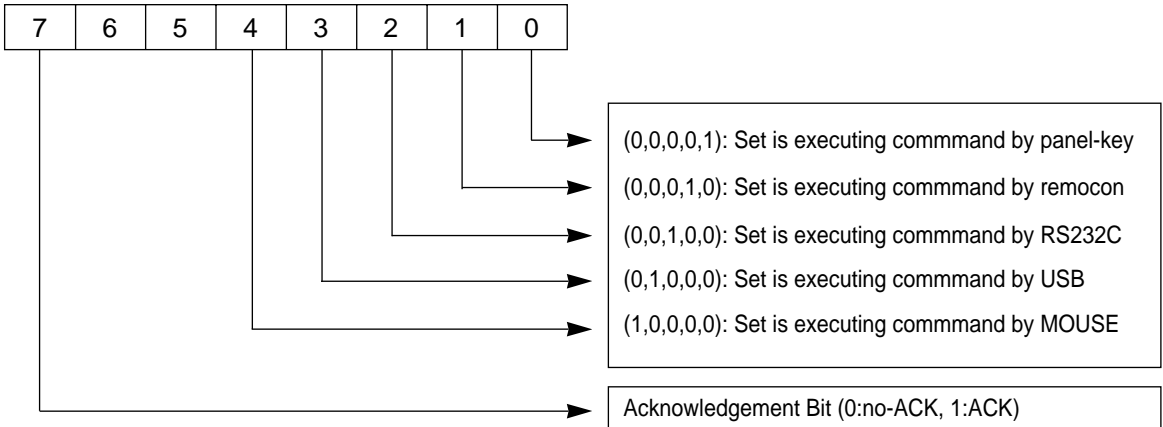
## RS232C COMMAND CODE (SDP-6500)

Command	PC Transmit Data to MICOM				PC Receive Data from MICOM				Remark
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
Set-Status(Normal)	0 x 61	0 x 00	0 x 00	0 x 00	0 x 61	<u>"ACK data"</u>	Status(MSB)	Status(LSB)	Bit definition of Status represents Page 6, 7, 8
Set-Status(Digital)	0 x 61	0 x 00	0 x 00	0 x 00	0 x 62	<u>"ACK data"</u>	Status(MSB)	Status(LSB)	
Message-Status	0 x 64	0 x 00	0 x 00	0 x 00	0 x 64	<u>"ACK data"</u>	0 x 00	Status	
Brightness-Status	0 x 65	0 x 00	0 x 00	0 x 00	0 x 65	<u>"ACK data"</u>	0 x 00	Status	Range:"1~120"
Red-Status	0 x 67	0 x 00	0 x 00	0 x 00	0 x 67	<u>"ACK data"</u>	0 x 00	Status	Range:"1~200"
Blue-Status	0 x 68	0 x 00	0 x 00	0 x 00	0 x 68	<u>"ACK data"</u>	0 x 00	Status	Range:"1~200"
Zoom-Status	0 x 69	0 x 00	0 x 00	0 x 00	0 x 69	<u>"ACK data"</u>	Status(MSB)	Status(LSB)	Range:"0~1667"
Focus-Status	0 x 6A	0 x 00	0 x 00	0 x 00	0 x 6A	<u>"ACK data"</u>	Status(MSB)	Status(LSB)	Range:"0~700"
<sup>(1)</sup> Focus-Status(Max)	0 x 6B	0 x 00	0 x 05	0 x 00	0 x 6B	<u>"ACK data"</u>	Status(MSB)	Status(LSB)	Range:"419~700"
<sup>(1)</sup> Focus-Status(Min)		0 x 00	0 x 0A	0 x 00		<u>"ACK data"</u>	Status(MSB)	Status(LSB)	Range:"0~399"

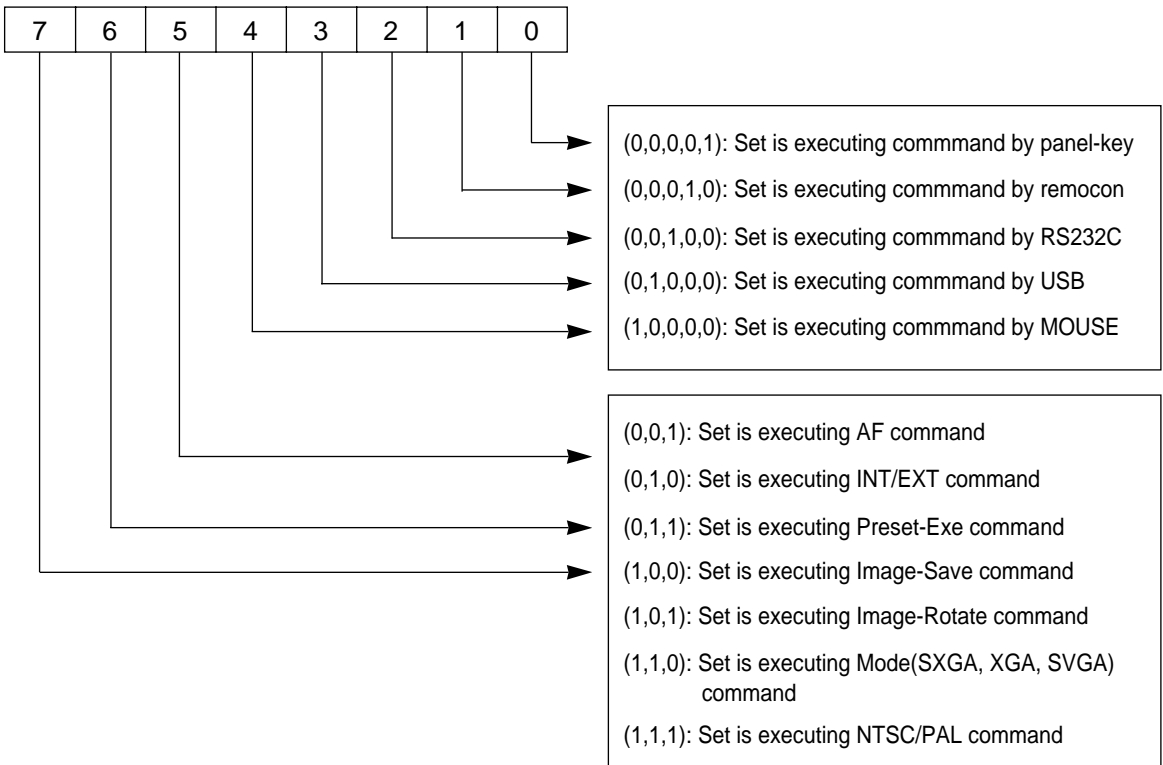
**[Note]** This command returns focus maximum/minimum data at current zoom position.

## RS232C COMMAND CODE (SDP-6500)

### ■ Bit Definition of "ACK data"



### ■ Status Bit Definition by Message-Status Command

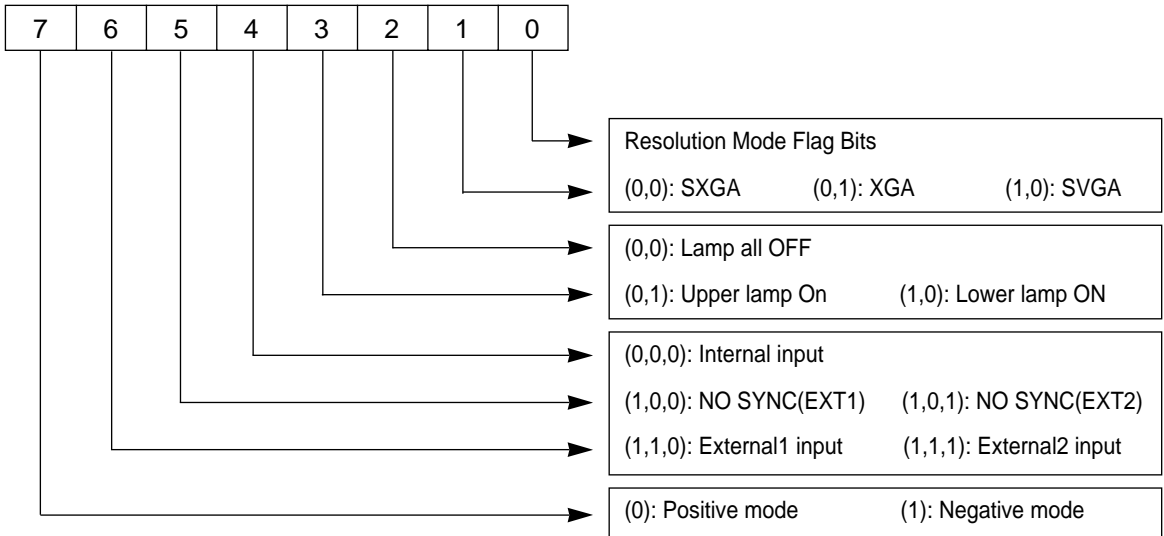




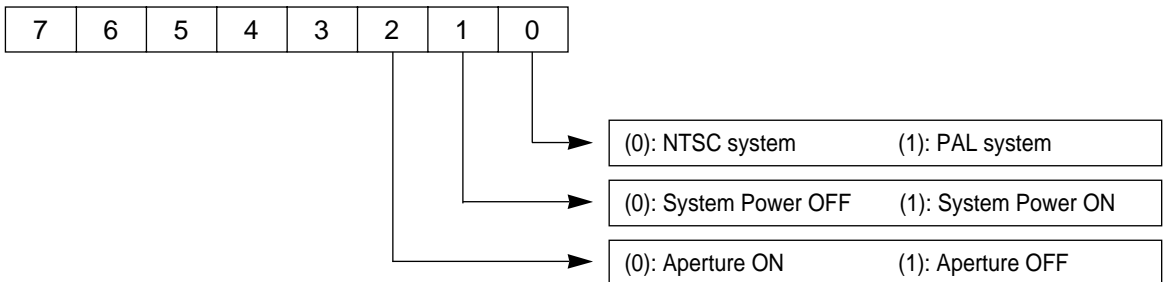
## RS232C COMMAND CODE (SDP-6500)

### ■ Status Bit Definition by Set-Status(Normal) Command

#### - LSB 8bit



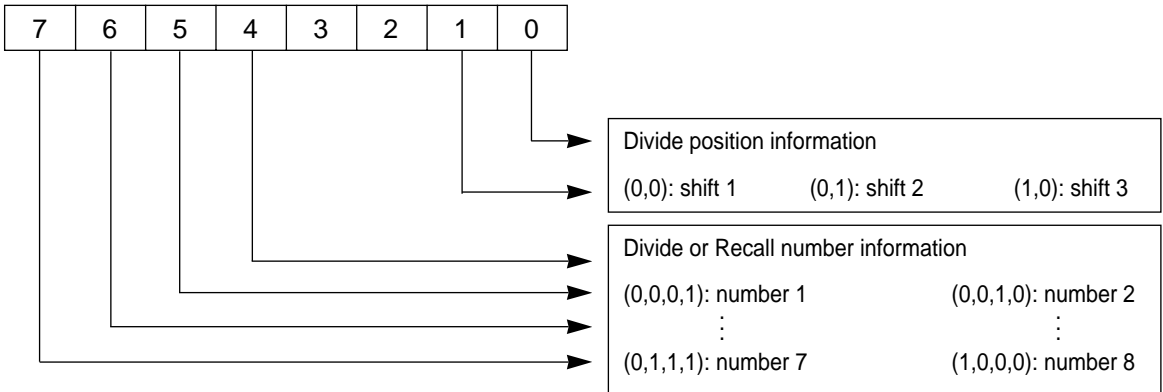
#### - MSB 8bit



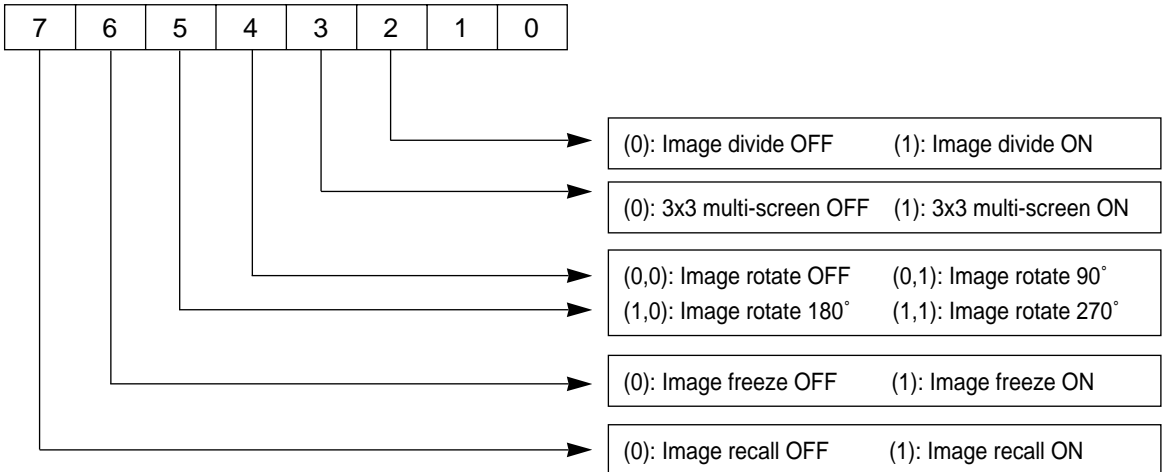
# RS232C COMMAND CODE (SDP-6500)

## ■ Status Bit Definition by Set-Status(Digital) Command

### - LSB 8bit



### - MSB 8bit



MEMO



## SALES NETWORK

---

**HEAD OFFICE : SAMSUNG TECHWIN CO., LTD**  
145-3 Sangdaewon 1-Dong, jungwon-Gu, Sungnam,  
Kyungki-Do, Korea 462-121  
TEL : 82-31-740-8137~8141  
FAX : 82-31-740-8145

**U.S.A OFFICE : SAMSUNG OPTO-ELECTRONICS AMERICA, INC.**  
40 Seaview Drive, Secaucus N.J.07094-1807, U.S.A  
TEL : 201-902-0347  
FAX : 201-902-9342

<http://www.samsungtechwin.com>  
<http://www.samsungpresenter.com>  
<http://www.samsungcctv.com>

P/No.: 6809-0017-01A