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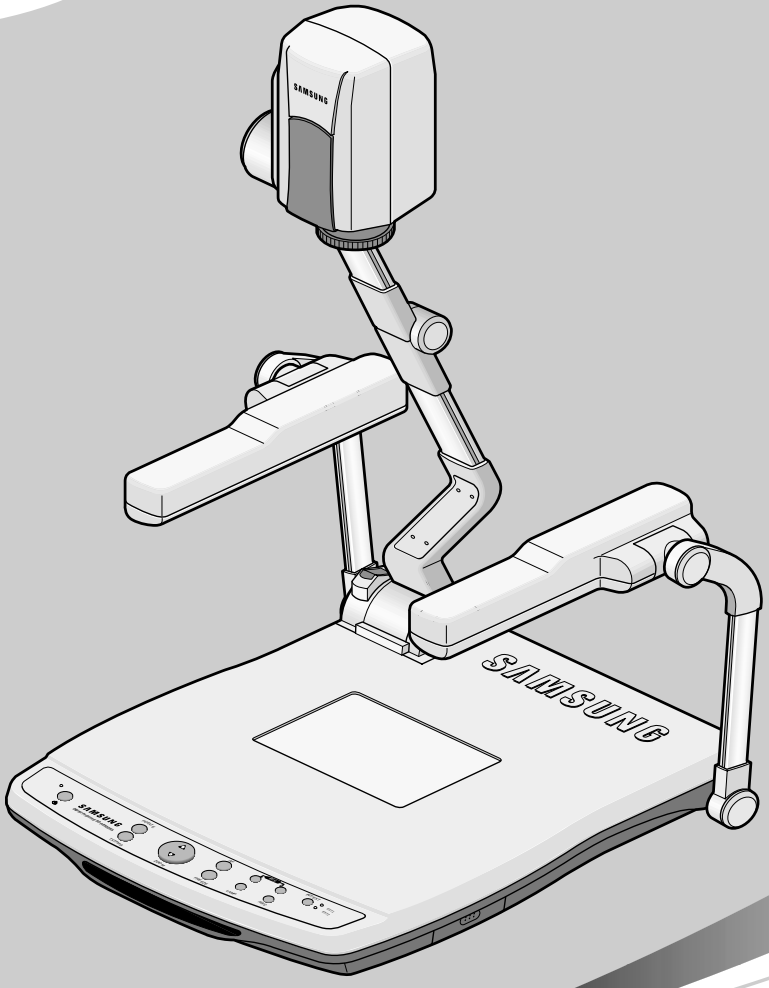
SAMSUNG



HIGH RESOLUTION DIGITAL PRESENTER

RS-232C REFERENCE

SDP Series

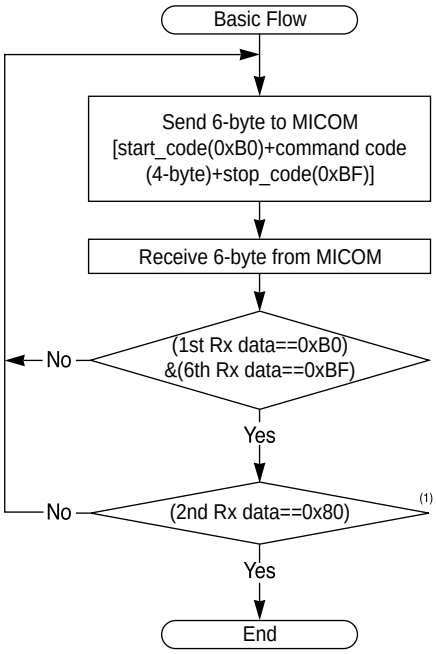
SDP900DXA
SDP950DXA/STA
SDP990DXA

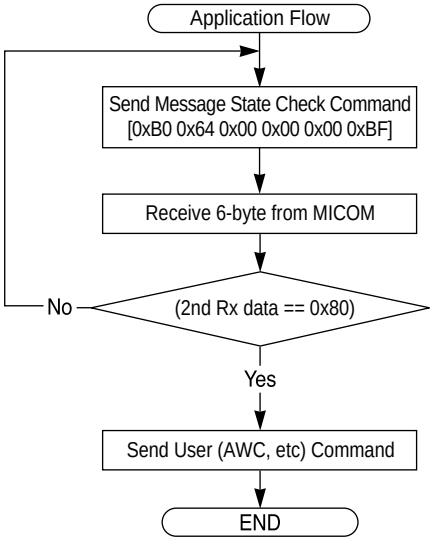
Before attempting to operate this product, Please read the instructions carefully.
www.samsungpresenter.com

RS232C PC-side FlowChart

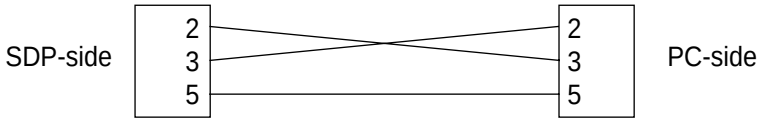
- BaudRate: 9600bps
- Parity Bit: No Parity
- Stop Bit Length: 1-bit
- Character Length: 8-bit
- Start Code: 0xB0
- Stop Code: 0xBF
- Command Code: 4-byte

(Note1 2nd Rx data == 0x80)
What the 2nd-Rx-data ("ACK data") is not 0x80 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)





RS232C Cable Connection



RS232C Command Code

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	"ACK data"	0 x 05	0 x 00	
AF	0 x 02	0 x 00	0 x 05	0 x 00	0 x 02	"ACK data"	0 x 05	0 x 00	
Upper Lamp	0 x 03	0 x 00	0 x 05	0 x 00	0 x 03	"ACK data"	0 x 05	0 x 00	
Lower Lamp		0 x 00	0 x 08	0 x 00		"ACK data"	0 x 08	0 x 00	
Lamp OFF		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Internal	0 x 04	0 x 00	0 x 05	0 x 00	0 x 04	"ACK data"	0 x 05	0 x 00	
External 1		0 x 00	0 x 08	0 x 00		"ACK data"	0 x 08	0 x 00	
External 2		0 x 00	0 x 0A	0 x 00		"ACK data"		0 x 00	
Positive	0 x 05	0 x 00	0 x 05	0 x 00	0 x 05	"ACK data"	0 x 05	0 x 00	
Negative		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
NTSC	0 x 08	0 x 00	0 x 05	0 x 00	0 x 08	"ACK data"	0 x 05	0 x 00	
PAL		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
Aperture ON	0 x 09	0 x 00	0 x 05	0 x 00	0 x 09	"ACK data"	0 x 05	0 x 00	
Aperture OFF		0 x 00	0 x 0A	0 x 00		"ACK data"	0 x 0A	0 x 00	
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 360°		0 x 00	0 x 0D	0 x 00		"ACK data"	0 x 0D	0 x 00	

RS232C Command Code

Command	PC Transmit Data to MICOM				PC Receive Data from MICOM				Remark
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
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"
[1)]Image Divide	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	
Recall, divide, 3x3 multi-screen Cancel	0 x1F	0 x 00	0 x 05	0 x 00	0 x 1F	"ACK data"	0 x 05	0 x 00	
Iris Up	0 x 21	0 x 00	0 x 05	0 x 00	0 x 21	"ACK data"	0 x 05	0 x 00	
Iris 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	

[Note 1] Transmitting number "9" in image divide command, the system executes 3X3 multi-screen mode.

RS232C Command Code

Command	PC Transmit Data to MICOM				PC Receive Data from MICOM				Remark
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
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	
Iris Target	0 x 41	0 x 00	0 x 00	"data"	0 x 41	"ACK data"	0 x 00	"data"	Range: "1~120"
Red Target	0 x 43	0 x 00	0 x 00	"data"	0 x 43	"ACK data"	0 x 00	"data"	Range: "1~200"
Blue Target	0 x 44	0 x 00	0 x 00	"data"	0 x 44	"ACK data"	0 x 00	"data"	Range: "1~200"
Focus Target	0 x 45	0 x 00	"MSB data"	"LSB data"	0 x 45	"ACK data"	"MSB data"	"LSB data"	(1)Range: "0~2225"
Zoom Target	0 x 46	0 x 00	"MSB data"	"LSB data"	0 x 46	"ACK data"	"MSB data"	"LSB data"	Range: "0~1812"
Focus/Zoom	0 x 47	0 x 05	"zoom MSB"	"zoom LSB"	0 x 47	"ACK data"	"zoom MSB"	"zoom LSB"	(1)Focus: "0~2225"
concurrent Target		0 x 0A	"focus MSB"	"focus LSB"		"ACK data"	"focus MSB"	"focus LSB"	Zoom: "0~1812"
(2)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 1] Depending of the zoom amount, the range of focus data will be changed. You can figure it out to see page 4. ("Focus-Status[Max]", "Focus-Status[Min]")

[Note 2] Above 10 Command (Iris up/down ,Red up/down, Blue up/down, Focus far/near, Zoom tele/wide) will go to all the way once you execute it.
"Drive Stop" can stop those command in certain point that you want.

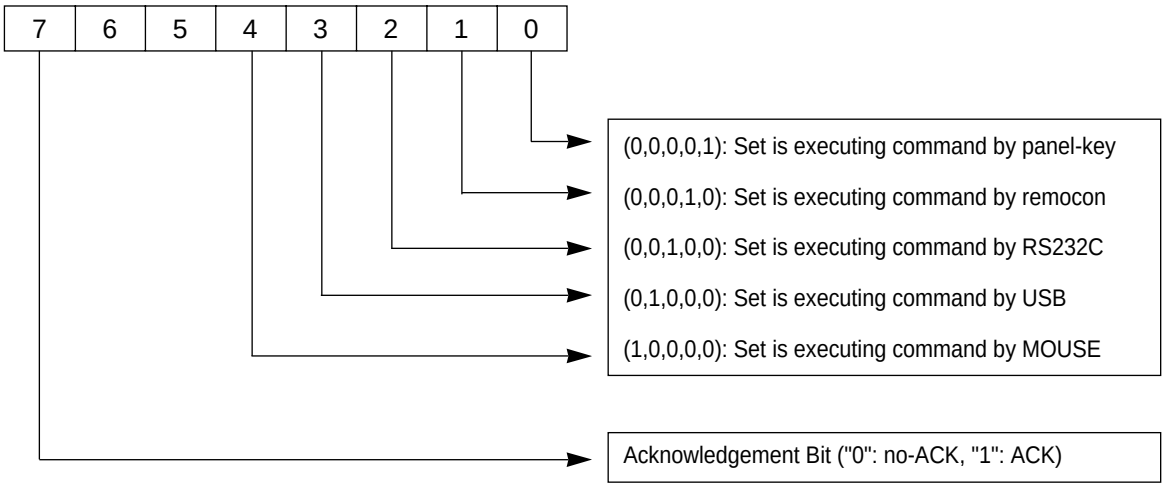
RS232C Command Code

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	"ACK data"	Status(MSB)	Status(LSB)	Bit definition of Status represents Page 5, 6, 7
Set-Status(Digital)	0 x 62	0 x 00	0 x 00	0 x 00	0 x 62	"ACK data"	Status(MSB)	Status(LSB)	
Message-Status	0 x 64	0 x 00	0 x 00	0 x 00	0 x 64	"ACK data"	Status(MSB)	Status(LSB)	
Iris-Status	0 x 65	0 x 00	0 x 00	0 x 00	0 x 65	"ACK data"	0 x 00	Status	Range:"1~120"
Red-Status	0 x 67	0 x 00	0 x 00	0 x 00	0 x 67	"ACK data"	0 x 00	Status	Range:"1~200"
Blue-Status	0 x 68	0 x 00	0 x 00	0 x 00	0 x 68	"ACK data"	0 x 00	Status	Range:"1~200"
Zoom-Status	0 x 69	0 x 00	0 x 00	0 x 00	0 x 69	"ACK data"	Status(MSB)	Status(LSB)	Range:"0~1904"
Focus-Status	0 x 6A	0 x 00	0 x 00	0 x 00	0 x 6A	"ACK data"	Status(MSB)	Status(LSB)	Range:"0~2225"
(1)Focus-Status(Max)	0 x 6B	0 x 00	0 x 05	0 x 00	0 x 6B	"ACK data"	Status(MSB)	Status(LSB)	Range:"648~2225"
(1)Focus-Status(Min)		0 x 00	0 x 0A	0 x 00		"ACK data"	Status(MSB)	Status(LSB)	Range:"0~1383"

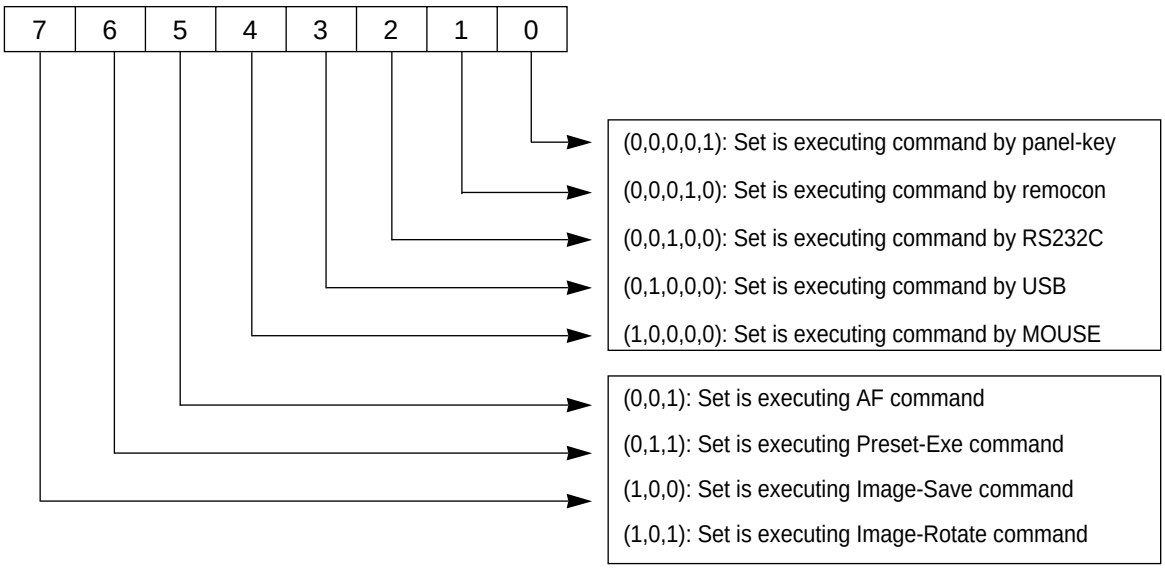
[Note 1] This command returns focus maximum/minimum data at current zoom position.

RS232C COMMAND CODE

■ Bit Definition of "ACK data"

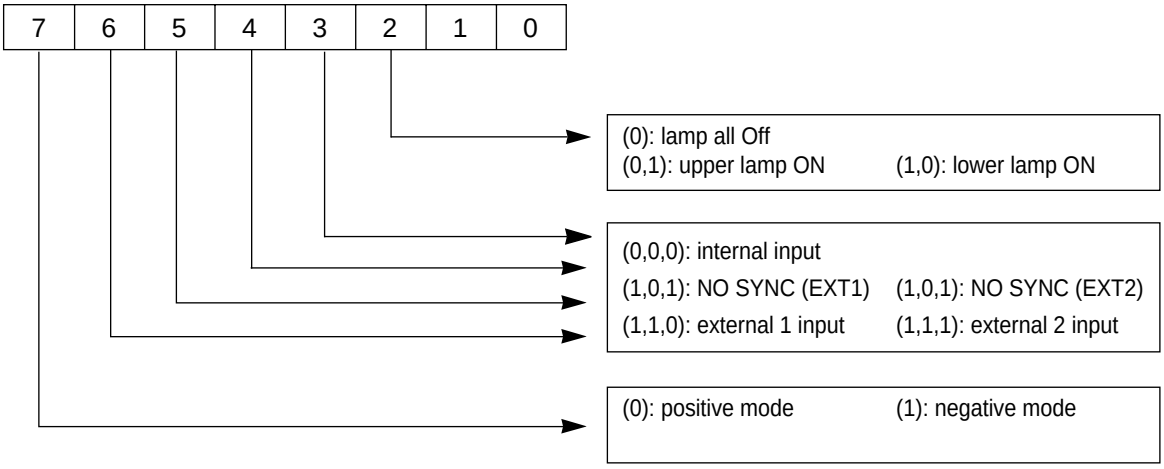


■ Status Bit Definition by Message-Status Command

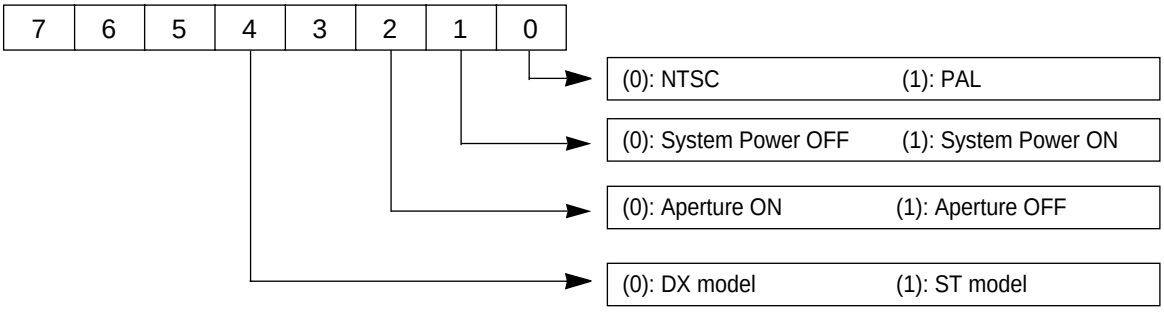


■ Status Bit Definition by Set-Status Command

- LSB 8bit



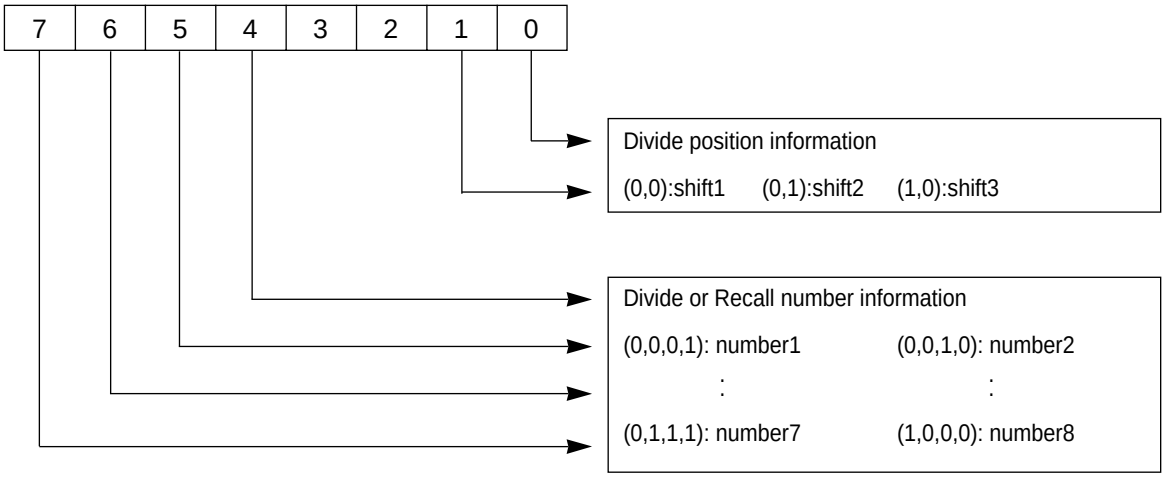
- MSB 8bit



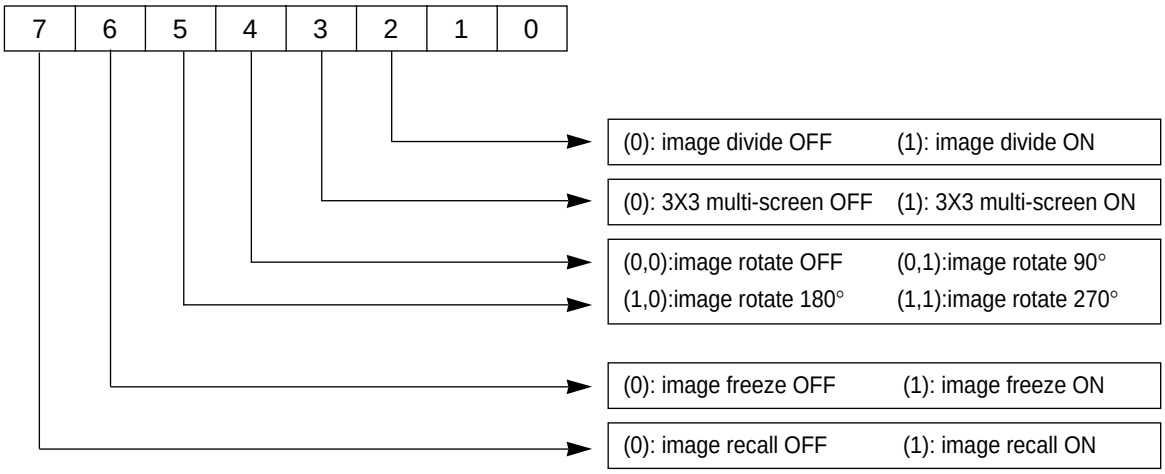
RS232C COMMAND CODE

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

- LSB 8bit



- MSB 8bit



MEMO

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