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## Specifications

Rev. 1.1 11/2002

# PS/2 Command Summary

Code (hex)	Command (mouse)	Answer (mouse)	(keyboard)
FF 1-1111 1111	Reset	FA AA 00	Reset
FE 0-1111 1110	Resend	last packet (no FA)	Resend
FD 0-1111 1101		(FE, FC)	Set Key Type: Make
FC 1-1111 1100		(FE, FC)(Error)	Set Key Type: Make/Break
FB 0-1111 1011		(FE, FC)	Set Key Type: Typematic
FA 1-1111 1010		(FE, FC)(Ack.)	Set All Keys: Typematic/Make/Break
F9 1-1111 1001		(FE, FC)	Set All Keys: Make
F8 0-1111 1000		(FE, FC)	Set All Keys: Make/Break
F7 0-1111 0111		(FE, FC)	Set All Keys: Typematic
F6 1-1111 0110	Set Default	FA	Set Default
F5 1-1111 0101	Disable	FA	Disable
F4 0-1111 0100	Enable	FA	Enable
F3 1-1111 0011	Set Sampling Rate (+s3)	FA (FA)	Set Typematic Rate/Delay
F2 0-1111 0010	Read Device Type	FA 00	Read ID
F1 0-1111 0001		(FE, FC)	Invalid Command
F0 1-1111 0000	Set Remote Mode	FA	Select Alternate Scan Codes
EF 0-1110 1111		(FE, FC)	Invalid Command

EE 1-1110 1110	Set Wrap Mode (echo)	FA	Echo
ED 1-1110 1101		(FE, FC)	Set/Reset Status Indicators
EC 0-1110 1100	Reset Wrap Mode	FA	
EB 1-1110 1011	Read Data	FA zz xx yy	
EA 0-1110 1010	Set Stream Mode	FA	
E9 0-1110 1001	Status Request	FA s1 s2 s3	
E8 1-1110 1000	Set Resolution (+s2)	FA (FA)	
E7 1-1110 0111	Set Scaling 2:1	FA	
E6 0-1110 0110	Reset Scaling (1:1)	FA	
E2 1-1110 0010	IBM Stick Command (+...)	FA (FA...)	
E1 1-1110 0001	Read Sec. Aux. Dev. ID	FA il ih	
DF 0-1101 1111	Vendor Unique command	(FE, FC) or FA	
To			
D1 1-1101 0001	Vendor Unique command	(FE, FC) or FA	
D0 0-1101 0000	Read Extended ID (PnP)	(FE, FC) or FA aa bb ... zz (< 256 bytes)	

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**Mouse report (Stream Mode): zz xx yy**

Byte	7	6	5	4	3	2	1	0	Description (default underlined)
zz	Yovf	Xovf	Ysgn	Xsgn	1	Mbut	Rbut	Lbut	Overflow, sign (1=neg) and button status (1=pressed)
xx	MSB	.	.	.	.	.	.	LSB	X Data (2's complements if negative)
yy	MSB	.	.	.	.	.	.	LSB	Y Data (2's complements if negative)
s1	0	Remote	Enable	Scaling	0	Lbut	Mbut	Rbut	<u>Stream</u> (0)/Remote(1), <u>Disabled</u> (0)/Enabled(1), <u>Scaling1:1</u> (0)/2:1(1)
s2	0	0	0	0	0	0	r1	r2	Resolution Setting (possible val.: 00, 01, <u>02</u> , 03)
s3	MSB	.	.	.	.	.	.	LSB	Sampling Rate (possible val.: 0A, 14, 28, 3C, 50, <u>64</u> , C8) [Values in decimal: 10, 20, 40, 60, 80, <u>100</u> , 200]

Note: The Overflow bits are not checked in our driver and this also the case for other mouse drivers (i.e. MS). In case of Overflow, sending the maximal signed displacement is good enough.

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**Email: [info@dgcs.com](mailto:info@dgcs.com)**

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