

鹽光股份有限公司

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PenMount Development Manual
PenMount Controller
DMC9000

Version 1.0

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1. LOGIC INSTRUCTIONS

The instructions here is for "Host" (your computer) to set up the working conditions You would prefer to use. Since DMC9000 processes the instructions from Host in an asynchronous way, be fixed at 19200 baud rate, the Host may send instructions at its own needs.

Once the Set-Up has been finished successfully, DMC9000 starts sending point data In accord with the settings.

2. THE WORKING CONDITIONS OF DMC9000

The packet structure of transmit data from DMC9000 controller to host is list as below:

Description	Byte/Bit	7	6	5	4	3	2	1	0
Command code	1	C ₇	C ₆	C ₅	C ₄	C ₃	C ₂	C ₁	C ₀
X- High byte	2	0	0	0	0	0	X ₉	X ₈	X ₇
X-Low byte	3	0	X ₆	X ₅	X ₄	X ₃	X ₂	X ₁	X ₀
Y-High byte	4	0	0	0	0	0	Y ₉	Y ₈	Y ₇
Y-Low byte	5	0	Y ₆	Y ₅	Y ₄	Y ₃	Y ₂	Y ₁	Y ₀

Pen Down Data

The controller will send touch reports to the host. (in Hex)

	1	2	3	4	5
PenDown	FF	00000xxx	0xxxxxxx	00000yyy	0yyyyyyy

Pen Up Data

The controller will send touch reports to the host. (in Hex)

	1	2	3	4	5
PenUp	BF	0xxxxxxx	00000xxx	0yyyyyyy	00000yyy

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3. INSTRUCTIONS TO DO SET-UP

The transmit message from host to DMC9000 controller and its returned code is list as below:

3.1 THE INSTRUCT FORMAT

The instruction sent from the Host must be in this 5-byte format.

		Length	Value
Cmd	Command	1 Byte	
OP Code	Operation Code	1 Byte	
Parameter 1	First parameter	1 Byte	Depending on the OP Code
Parameter 2	Second parameter	1 Byte	Depending on the OP Code
Parameter 3	Third parameter	1 Byte	Depending on the OP Code

3.2 THE MESSAGE FORMAT (RESPONSE FROM DMC9000)

DMC9000 returns data packets in the following 2 types:

Type 1: Message (All in 5-Byte length)

DMC9000 returns messages in 2 sub-types when a setting function is received from the Host:

VERSION CODE	Fx 00 00 00 00
RESPONSE CODE	Fx ,Parameter 1,Parameter 2,Parameter 3,Parameter 4 .

Type 2: Point Data

(Please refer to the Note under 'The working conditions of DMC9000')

3.3 THE INSTRUCTIONS SET

3.3.1 DMC9000 version

The instruction read DMC9000 version (in Hex)

	1	2	3	4	5
Host	F2	00	00	00	00
Controller	F2	d9	0a	xx	xx

3.3.2 Disable DMC9000

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The instruction set up DMC9000 can't send touch data to host. (in Hex)

	1	2	3	4	5
Host	F0	00	00	00	00
Controller	F0	00	00	00	00

3.3.3 Enable DMC9000

The instruction set up DMC9000 can send touch data to host. (in Hex)

	1	2	3	4	5
Host	F1	00	00	00	00
Controller	F1	00	00	00	00

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