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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 | C7 | C6 | C5 | C4 | C3 | C2 | C1 | C0 |
| X- High byte | 2 | 0 | 0 | 0 | 0 | 0 | X9 | X8 | X7 |
| X-Low byte | 3 | 0 | X6 | X5 | X4 | X3 | X2 | X1 | X0 |
| Y-High byte | 4 | 0 | 0 | 0 | 0 | 0 | Y9 | Y8 | Y7 |
| Y-Low byte | 5 | 0 | Y6 | Y5 | Y4 | Y3 | Y2 | Y1 | Y0 |

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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