



Motion Detection Protocol  
for Grandstream DVS/IP Camera

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## Introduction

This document lists the commands which can be used by the client application to configure and control the motion detection on the DVS/IP camera. This document also provides the responses from the DVS/IP camera for each command sent by the client application.

## Client Application Commands and Response from DVS/IP camera

### Command Format

```
CMD:MD MCTP/1.0 XXX\n
@A@B@C@D@E@F@G@H\n
... ..\n
END\n
```

#### **NOTE:**

- A – Operation type.
  - 1 – Configure motion detection settings;
  - 2 – Get current motion detection settings;
  - 3 – Start motion detection;
  - 4 – Stop motion detection;
  - 5 – Start alarming;
  - 6 – Stop alarming
- B – Channel ID.
  - 0 – Channel 1;
  - 1 – Channel 2;
  - 2 – Channel 3;
  - 3 – Channel 4;
- C – Motion Detection Region ID.
  - C is a integer and  $0 \leq C \leq 15$
- D – Sensitivity
- E – X1 Coordinate
- F – Y1 coordinate
- G – X2 coordinate
- H – Y2 coordinate

### Commands

1. To configure motion detection settings



```
@2@B@C@D@E@F@G@H\n
END\n
```

3. To start motion detection

**Client Application Commands:**

```
CMD:MD MCTP/1.0 CS\n
@3@B@0@0@0@0@0@0\n
END\n
```

**Response from DVS/IP camera:**

```
CMD:MD MCTP/1.0 SC\n
@3@B@C@0@0@0@0@0\n
END\n
```

**NOTE:** C – Execution Result. 1 – Success; 0 – failure

4. To stop motion detection

**Client Application Commands:**

```
CMD:MD MCTP/1.0 CS\n
@4@B@0@0@0@0@0@0\n
END\n
```

**Response from DVS/IP camera:**

```
CMD:MD MCTP/1.0 SC\n
@4@B@C@0@0@0@0@0\n
END\n
```

**NOTE:** C – Execution Result. 1 – Success; 0 – failure

5. To start alarming

**Client Application Commands:**

```
CMD:MD MCTP/1.0 CS\n
@5@B@0@0@0@0@0@0\n
END\n
```

**Response from DVS/IP camera:**

CMD:MD MCTP/1.0 SC\n  
@5@B@C@X1@Y1@X2@Y2@0\n  
END\n

**NOTE:** B – Alarm type.

B=1 – Motion detection alarm events

B=2 – Alarm Input alarm events

B=3 – Live storage, USB flash drive and etc., out of memory alarm events

C – Motion Detection Region.  $0 \leq C \leq 15$

6. To stop alarming

**Client Application Commands:**

CMD:MD MCTP/1.0 CS\n  
@6@B@0@0@0@0@0@0\n  
END\n

**Response issued from DVS/IP camera:**

CMD:MD MCTP/1.0 SC\n  
@6@B@C@0@0@0@0@0\n  
END\n

**NOTE:** C – Execution Result. 1 – Success; 0 – failure

**NOTE:** Resolution of the screen is 704\*576.