PTZ Protocol
for Grandstream DVS/IP camera

Document Number: XXX
Version: XXX
Owner: Grandstream Networks, Inc.
Date: 08/20/2009

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Introduction

This document lists the commands which is used by the client application to control the DVS/IP Camera to pan, tilt, focus, speed, and change IRIS.

PTZ Protocol

General

Commands are transported by TCP. Client application sends command lines to host, and the host responds with OK. The client is allowed to send next commands after receiving ACK from the host.

Command Format

CMD:PTZ MCTP/1.0\n
@A@B@C\n
END\n

NOTE: The whole command string includes 3 lines.

The first line is header.

The second line defines parameters A, B and C, which begin with @ and end with \n.

A – Channel.   0,1,2,3 corresponds with channel 1,2,3,4

B – Command.   For more information, please refer to the ***ptz.h*** section below

C– Parameter.   C would usually need to be set to current speed; If B is GOTO_PRESET, C should be the preset value.

The third line ends the command.

ptz.h

```
#ifndef __CMD_PTZ_H__
#define __CMD_PTZ_H__


#define PTZ_STOP        0   /*    Stop PTZ*/


#define TILT_UP         1   /* Tilt up the device with input speed*/
#define TILT_DOWN       2   /* Tilt down the device with input speed */
#define PAN_LEFT        3   /* Pan the device toward left with input speed */
#define PAN_RIGHT       4   /* Pan the device toward right with input speed */
```

```
#define PT_LEFT_UP        5    /* Pan/Tilt the device toward up-left with input speed */
#define PT_LEFT_UP        6    /* Pan/Tilt the device toward up-right with input speed */
#define PT_RIGHT_DOWN       7    /* Pan/Tilt the device toward up-right with input speed */
#define PT_RIGHT_DOWN       8    /* Pan/Tilt the device toward down-right with input speed */

#define Z_ZOOM_IN     9    /* zoom in with input speed */
#define Z_ZOOM_OUT       10  /* zoom out with input speed */
#define FOCUS_NEAR      11  /* focus near with input speed */
#define FOCUS_FAR       12  /* focus far with input speed */
#define IRIS_OPEN     13  /* open iris with input speed */
#define IRIS_CLOSE     14  /* close iris with input speed */

#define GOTO_PRESET      15  /* configure preset */
#define CLE_PRESET      16  /* delete preset */
#define SET_PRESET      17  /* move to preset */

#define PAN_AUTO     18  /* auto pan with input speed */
#define PAN_AUTO_STOP       19  /* stop auto pan */

#define SPEED_UP     30  /*speed up, the Db speed not change*/
#define SPEED_DOWN       31  /*speed down, the Db speed not change */

#define UPDATE_DB     32  /*update the Db, the server read date from Db again*/
#endif
```