

HIKVISION DS-1003KI DVR/PTZ KEYBOARD CONTROLLER USER GUIDE

Hikvision DS-1003KI is a combined DVR and PTZ controller capable of managing up to 31 Hikvision DVR/NVR units and up to 254 PTZ fully functional cameras.

Please follow the below guide which will explain how to successfully connect and control your DVR and PTZ cameras.

1. Connecting DVR and PTZ to the rear of DS-1003KI controller

The DS-1003KI is equipped with a 10 port terminal connector on the rear of the unit which is used for connecting your DVR and PTZ devices, it is also used for connecting (when applicable) secondary DS-1003KI controllers. Please see below image of rear terminal block:



Please see below chart which shows pin configuration of rear terminal block for device connections:

| | | | | | | | | | | |
|-------|-----|-----|-----|-----|--------|--------|-----|-----|-----|-----|
| RS485 | PTZ | CON | PTZ | AUX | Ground | Ground | DVR | AUX | DVR | CON |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| | Ta | Tb | Ra | Rb | G | G | Ra | Rb | Ta | Tb |

The connecting of Hikvision DVR/NVR is done using terminals 1 and 2 as below:

Terminal 1 (Tb) connects to the Keyboard (-) connection on the rear of DVR/NVR.

Terminal 2 (Ta) connects to the Keyboard (+) connection on the rear of DVR/NVR.

The connecting of Auxiliary DS-1003KI controllers for DVR control is done using terminals 3 and 4, this is useful if you wish to control the connected DVRs from several locations using several DS-1003KI controllers (up to 15 auxiliary controllers can be connected to the main DS-1003KI)

Terminal 3 (Rb) connects to Terminal 1 (Tb) of auxiliary Keyboard.

Terminal 4 (Ra) connects to Terminal 2 (Ta) of auxiliary Keyboard.

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The connecting of PTZ cameras is done using terminals 9 and 10 as below:

Terminal 9 (Tb) connects to RS485 (-) of PTZ camera.

Terminal 10 (Ta) connects to RS485 (+) of PTZ camera.

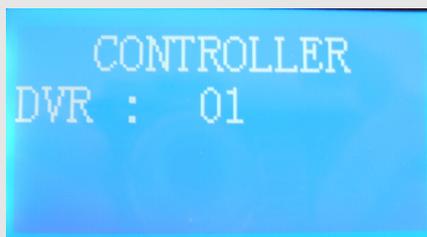
The connecting of Auxiliary DS-1003KI controllers for PTZ control is done using terminals 7 and 8, this is useful if you wish to control the connected PTZs from several locations using several DS-1003KI controllers (up to 15 auxiliary controllers can be connected to the main DS-1003KI)

Terminal 7 (Rb) connects to Terminal 1 (Tb) of auxiliary Keyboard.

Terminal 8 (Ra) connects to Terminal 2 (Ta) of auxiliary Keyboard.

2. Configuring DS-1003KI for use with DVR and PTZ camera

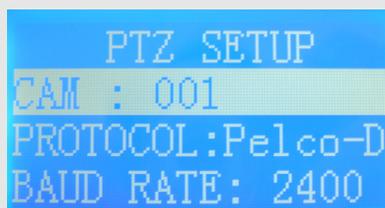
On initial powering up of the DS-1003KI you will see the LCD display as below:



At this point it is possible to enter the setup screens of the DS-1003KI by pressing the **SETUP** button for 3 seconds then enter the default login password **8888** followed by the **ENTER** button where you will now see the LCD screen display as below:



Press the **ENTER** button on PTZ SETUP to enter the PTZ setup screen as below:



Tap the joystick to select the PTZ ID number you wish to setup from 1 to 254 then press the **ENTER** button to move down to the **PROTOCOL** and **BAUD RATE** options.

The **PROTOCOL** can be set by tapping the joystick left or right and you can choose from the below options:

HIKVISION, SAMSUNG, RULE, ALEC, YAAN, B01, NCS850, CS850, PELCO P, PELCO D

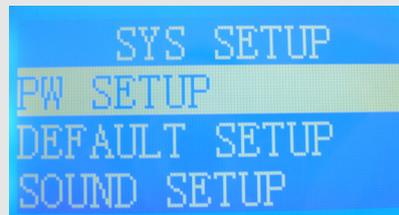
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Once the protocol is set tap the joystick down to move to the BAUDRATE option then tap the joystick left or right to choose from the below options:

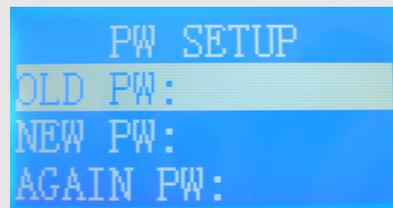
1200 bps, 2400 bps, 4800 bps, 9600 bps, 19200 bps

Once your selections have been made you can press **ESC** button to move back up to the ID option where a new ID number for setup can be selected and the procedure repeated or to exit the PTZ setup screen altogether simply press the ESC again to return to the main menu.

From the main menu tap the joystick down to the **SYS SETUP** option and press the ENTER button where the below screen will be displayed:



To change the password press the ENTER button on PW SETUP to display the below screen:



Enter the current password at OLD PW then press the ENTER button to move down to NEW PW where you should enter the new password followed by the ENTER button, now enter the new password again next to AGAIN PW and press ENTER to confirm PW change and exit PW SETUP screen.

NOTE: your chosen password must be 4 digits long.

There are two remaining options on the SYS SETUP screen:

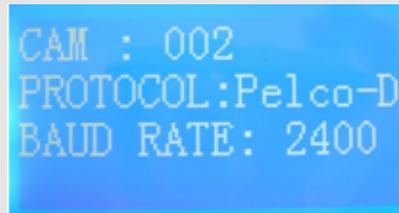
DEFAULT SETUP press the **ENTER** button twice on this option to default all OSD options

SOUND SETUP press the **ENTER** button then tap joystick left or right to turn key sound ON or OFF, press enter again to confirm selection.

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3. PTZ controls and operation

As mentioned earlier the DS-1003KI is capable of controlling Hikvision DVR or PTZ camera and you can switch between each mode by pressing the SHIFT button, when the PTZ mode is selected you will see the LCD screen similar to below:



The current ID and its chosen PROTOCOL and BAUDRATE are displayed, if you wish to change to another camera ID you can do this by pressing the below keys

Addr > new ID number > ENTER button.

Basic control and manoeuvrability of the PTZ is done using the attached joystick and keypad as below:



The above joystick keypad allows full pan, tilt and zoom as well as further functions such as iris, focus, wiper and light control.

The below key combinations can be used for further PTZ functionality:

Entering the PTZ OSD menu:

PRESET > 9 > 5 > ENTER

Storing a pre set position:

PRESET > pre set position > ENTER

Moving to a pre set position

SHOT > pre set number > ENTER

Deleting a pre set position

DEL > pre set number > ENTER

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The DS-1003KI is also equipped with three F buttons which can be used for additional functionality:

F2 button: This can be used to run an already stored surveillance PATTERN which can be programmed from the OSD menu of the PTZ, to run the pattern simply press F2 once

F3 button: This can be used to store a Tour (patrol) surveillance pattern, press F3 and you will see the below options

TOUR NO: Enter the Tour number and press ENTER

TOUR PRESET: Enter the preset number for the first position in the Tour (patrol)

TOUR TIME: Enter the Dwell time for the above position in seconds 1 - 255

TOUR SPEED: Enter the movement speed to the above position from 1 - 255

Press ENTER and repeat the above for all subsequent positions in the Tour and then press ESC when finished.

F4 button: This button is used to run a TOUR, to do this press F4 then enter TOUR number and press ENTER.

4. DVR control and operation

As mentioned earlier the DS-1003KI is capable of controlling Hikvision DVR/NVR through embedded protocol and is capable of connecting to a maximum of 31 units which does through the unique ID address of the DVR/NVR.

To switch the DS-1003KI into DVR mode simply press the **SHIFT** button until you see the LCD screen display as below:



The above screen shows that the controller is set to communicate with a connected DVR/NVR set to ID 1, if you wish to switch the controller to another ID number press the below key sequence:

Addr > ID number > ENTER

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The below keys and key combinations can be used for various DVR control functions:

Press the **MENU** button to enter DVR/NVR OSD menu.

Use **JOYSTICK** to navigate OSD options and **ENTER** button to select them.

Press the **PREV** button to switch between supported split screen modes.

Press the **SHUTDOWN** button to safely power down the DVR/NVR.

Press the **MON** button to switch between main and auxiliary monitor.

Press the **PLAY** button to enter playback screen.

Play **REC** to enter OSD record sub menu.

Press the **PTZ** button to enable ptz control of selected full screen image.

Press any channel number to bring chosen camera up full screen.