TECHNICAL BULLETIN

HIKVISION

Title:	Hikvision USA Keyboard Characteristics	Version:	v1.0	Date:	04/12/16
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Action Required:	None, Information Only				

Introduction

This document explains Hikvision USA keyboard characteristics.

- **Hikvision USA Keyboard Models**
- **Compatibility Issues**
- **Identifying DS-1100KI Keyboard Generation**
- **Restoring Keyboard Password**
- **Keyboard Update Files**
- **Keyboard Functions Chart**

Hikvision USA Keyboard Models

There are three models of Hikvision USA keyboards — An analog keyboard (DS-1003KI), a USB keyboard (DS-1005KI), and a network keyboard (DS-1100KI). "Table A: Keyboard Functions Chart" explains the keyboards' main functions and differences.

Compatibility Issues

The latest DS-1100KI firmware, v2.4.0, is not compatible with the latest DS-6400HDI-T Series decoder firmware, v3.5. To make the keyboard compatible with the latest DS-6400HDI-T Series decoder firmware, the DS-1100KI keyboard firmware must be customized.

Identifying DS-1100KI Keyboard Generation

There is a corresponding relationship between the DS-1100KI firmware version and panel version. Due to the different joystick types, DS-1100KI comes in three generations and the panel version varies with the joystick. The first generation keyboard's joystick is quite different from the second and the third generations, so the first generation's panel version is not compatible with the second and the third generation joysticks. The second and third generation joysticks support the same panel version. Hikvision no longer provides upgrade service for first generation keyboards, and the final firmware version is v2.3.1 and the panel version is v1.0. If a second or third generation keyboard needs to upgrade to firmware version v2.4.0, the panel version must be upgraded to v1.1 at the same time.

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The joystick difference between a first generation keyboard and a second and third generation keyboard is displayed in the following two figures:

Figure 1: First Generation DS-1100KI Keyboard

Figure 2: Second and Third Generation DS-1100KI Keyboard

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Restoring Keyboard Password

- *For Keyboard Firmware Prior to v2.31* — The only way to restore the keyboard password is by using a serial command via Telnet service or a direct connection through the serial port.

- *For Keyboard Firmware v2.3.1* — The Telnet service and serial command have been prohibited, so this firmware needs the help of special software. If customer demands the password restoration service, having the job done by our engineer is strongly suggested. Please ***do not*** disclose authentication password and serial command to the customer, since doing so will compromise product security.

- *For Keyboard Firmware v.2.4.0 or Later* — The firmware supports Hikvision's latest password restoration strategy.

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Table A: Keyboard Functions Chart

Model	Control Interface	Working Mode	Connection	Main Functions	Supported Devices
DS-1003KI	RS-485 Bus (supports 15 auxiliary keyboards)	PTZ	Connect PTZ-CON (Ta,Tb) to PTZ or decoder RS-485 port	• Preview screen switch, PTZ control, set and call of preset, patrol, and pattern • Connect up to 128 PTZs • Controls PTZ via decoder's transparent channel	Keyboard supports a DVR/NVR only if it has a direction pad on the front panel (i.e., there is no keyboard support for 76xx Series NVRs). **NOTE:** The function of an analog keyboard is to send control commands. If an end device does not support keyboard control, in most cases it needs the end device to make the adjustments.
		DVR/NVR	Connect DVR-CON (Ta,Tb) to DVR/NVR KB interface	• Record and replay, PTZ control, call preset (set preset, patrol, and pattern not supported) • Connect up to 31 DVRs/NVRs	
DS-1005KI	USB 2.0	Keyboard	Connect USB plug into PC USB port	• Control iVMS-4200 Preview Interface: preview screen switch, picture capture, record, PTZ control, etc. • Video Wall: Display video channel on video wall, PTZ control (device driver must be installed on PC)	**NVRs** -E Series (v3.2.0 and later) Netra Series (v3.2.0 and later) -I Series **TVI DVRs** N/A
		Joystick	Connect USB plug into PC or DVR/NVR	• PC: Control iVMS-4200 • Preview Interface: preview screen switch, picture capture, record, PTZ control, preset, patrol, and pattern, etc. (video wall interface not supported). • DVR/NVR: Preview screen switch, live view, record, PTZ control, etc. (requires Joystick mode)	
DS-1100KI	RJ-45 (7" TFT touch screen, 1-ch 1080p decoding ability)	Joystick	RJ-45	• Local live view, replay, picture capture • PTZ control, set and call of preset, patrol, and pattern • Automatically obtains DS-6400HDI-T Series video output (multi-screen and roaming window) parameters, which are configured by video client, and displays video channel on those video output interfaces • Automatically obtains DS-6400HDI-S video output parameters (video all and roaming window), which are configured by video client, and displays video channel on video output interfaces	**Devices** DVR NVR IPC PTZ Decoder

NOTE: Not all keyboard functions are listed in this table. Please refer to each keyboard's user manual for details.