

Title:	Hikvision USA Keyboard Characteristics	Version:	v1.0	Date:	01/03/16
Product:	Hikvision USA Keyboards			Page:	1 of 4
Action Required:	Upgrade keyboard firmware				

Introduction

This document explains Hikvision USA keyboard characteristics:

- Hikvision USA Keyboard Models
- Compatibility Issues
- Identifying DS-1100KI Keyboard Generations
- Restoring Keyboard Password
- Keyboard Functions

Hikvision USA Keyboard Models

- **Analog Keyboard (DS-1003KI)**
- **USB Keyboard (DS-1005KI)**
- **DS-1100KI Network Keyboard**
 - **First Generation (see Figure 1)**
 Panel not compatible with second/third generation joystick
 Hikvision no longer provides upgrade for first generation keyboards
 Final joystick firmware is v2.3.1
 Final panel firmware is v1.0
 - **Second Generation (see Figure 2)**
 Second and third generation panels are identical
 Recommend joystick firmware upgrade to v2.4.0 (panel must be upgraded to v1.1 at same time)
 - **Third Generation (see Figure 2)**
 Second and third generation panels are identical
 Recommend joystick firmware upgrade to v2.4.0 (panel must be upgraded to v1.1 at same time)

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.

Title:	Hikvision USA Keyboard Characteristics	Version:	v1.0	Date:	01/03/16
Product:	Hikvision USA Keyboards	Page:	2 of 4		
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Identifying DS-1100KI Keyboard Generations

Note difference between first generation joystick and second/third generation joystick.



Figure 1: First Generation DS-1100KI Keyboard



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

Restoring Keyboard Password

- *Keyboard Firmware Prior to v2.31* — Requires using a serial command via Telnet service or a direct connection through the serial port
- *Generation 1 Keyboard with Firmware v2.3.1* — Consult tech support
- *Generation 2 Keyboard* — Recommend firmware upgrade to v2.4.0 or later, which supports the Secure Activation process
- *Generation 3 Keyboard* — Recommend firmware upgrade to v2.4.0 or later, which supports the Secure Activation process

Title:	Hikvision USA Keyboard Characteristics	Version:	v1.0	Date:	01/03/16
Product:	Hikvision USA Keyboards	Page:	3 of 4		
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Keyboard Functions

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	<ul style="list-style-type: none"> 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 	DS-1004KI is an updated DS-1003KI. Keyboard supports DVR/NVR only if the KB interface and support appear in the panel control 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 v3.3.1 and later versions
		Joystick	Connect USB plug into PC or DVR/NVR	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 MVC Others
		MVC	RJ-45	<ul style="list-style-type: none"> Local live view, preview screen switch, multi-screen configuration, background picture configuration, etc. Displays video on normal output interface Displays video on multi-screen (supports local configuration) Displays video on video wall and roaming window (configured on video wall client) 	Devices C10S B10 B20 Others
		Analog Matrix Switch	Connect RS-232 serial port to analog matrix switch RS-232 port	<ul style="list-style-type: none"> Input a certain camera (or camera group) to a selected screen (screen group) Supports PTZ control and setting and calling of PTZ preset, patrol, and pattern 	Analog matrix switch

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