

# KB-10 Keyboard

## User Manual

# Precautions

Do not squeeze the LCD panel or leave keyboard under the sun for long hours.

Joystick must be properly packaged before shipment for repair.

Keyboard must be operate base on recommended temperature and humidity range.

Strictly follow the manual's wiring connections.

Device Packing List			
Item	Quantity	Unit	Remarks
DC-12V Power	1	Pcs	Input: AC100V-240V 50Hz~60Hz
5PIN Adapter	2	Pcs	
User Manual	1	Set	
Certification	1	Pcs	
Warranty Card	1	Pcs	

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## 1. Introduction

KB-10 Keyboard is used to control NVR and front-end devices.

### 1.1 Control

Network Video Recorders are able to completely replace all the functions of remote control operations.

All operations are displayed on the LCD screen instructions.

A keyboard can simultaneously control multiple NVRs.

Control of front-end equipment: front-end equipment by NVR device control

### 1.2 Main and Sub-control function

Control NVR Support cascade control sub-control functions that can be cascaded with 15auxiliary keyboard.

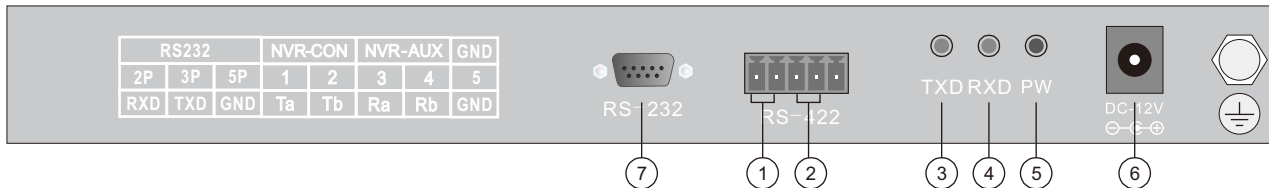
Keyboard ID: 0 ~ 15

### 1.3 Features

Settings can be complete with operation on the LCD screen. This is to eliminate re-checking the manual to change the protocol.

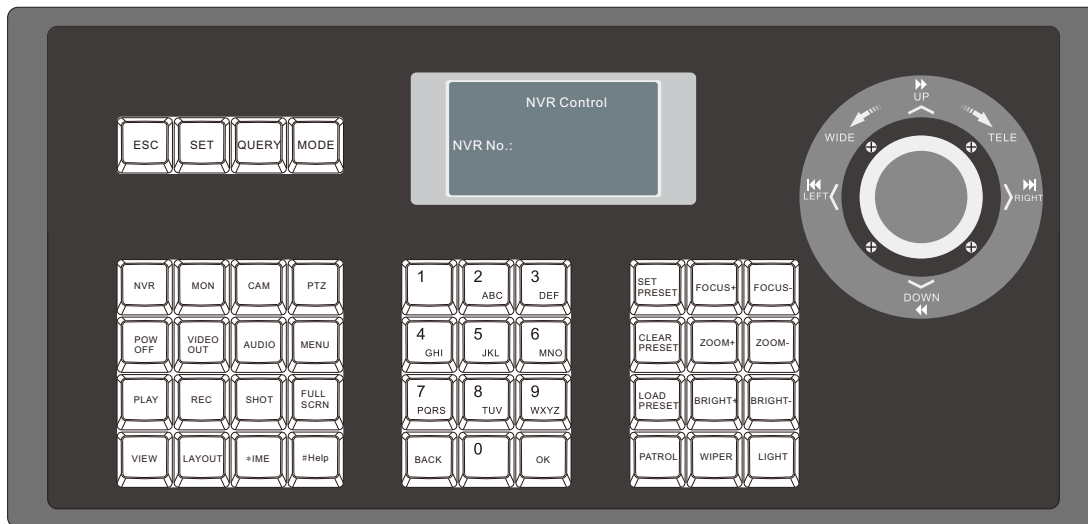
## 2. Installation Instructions

### 2.1 Interface Instructions



NO.	Physical Interface	Connection
1	NVR Keyboard Input (NVR-CON)	Ta,TbConnect NVR Serial Portto AB Port
2	NVR Sub Keyboard Input (NVR-AUX)	Ra,RbConnect sub keyboard Ta, Tb
3	TXD Control Indicator	When connected to NVR or TV wall, indicator light will blink
4	RXD Control Indicator	When cascading of keyboard, indicator light will blink
5	Power Indicator (PW)	When keyboard is in use, red indicator light will be on
6	Power Adaptor	Connect DC 12V power.
7	RS-232	232 to 485 interface, connect NVR serial port AB port

## 2. 2 Control Key Description









### Keyboard Button Description

Description	Functions
ESC	Back to previous Menu
SET	Long press 3 sec. enter into keyboard configure status (Default password: 8888)
QUERY	Keyboard parameters: device number, model number, serial number
MODE	Switch NVR or TV wall control mode, number of NVR 0-99, monitor device number, press NVR for different access control
NVR	Configure NVR number
MON	TV wall mode to set TV number
CAM	TV wall mode to set camera number
PTZ	NVR mode, enter PTZ status

POW OFF	Off / Reboot NVR
VIDEO OUT	Switch NVR output: PAL, NTSC, VGA
AUDIO	Configure NVR audio output
MENU	Enter PTZ mode under NVR mode.
PLAY	Enter NVR main function menu
REC	In NVR control mode, enter NVR single video playback menu; in NVR control mode, enter NVR recording control menu
SHOT	Use NVR to enter Snapshot status
FULL SCRN	Full Screen
VIEW	Select monitoring video on Loop switch NVR
LAYOUT	Select monitoring video layout on Loop switch NVR
*IME	Switch IME
#HELP	Tips on shortcut, region selection, keyboard space
BACK	Clear input
OK	Confirm
SET PRESET	Preset high speed dome position
CLEAR PRESET	Clear preset of high speed dome position
LOAD PRESET	Load preset position
PATROL	Load auto patrol
FOCUS+	Focus In
FOCUS-	Focus Out
ZOOM+	Zoom In
ZOOM-	Zoom Out
BRIGHT+	Open aperture
BRIGHT-	Close aperture
WIPER	On / Off Wiper
LIGHT	On / Off Light

### 2.3 Joystick Description

Joystick	Operation	Description	
		PTZ Control Mode	NVR Control Mode
	Up	Tilt up	Control video files quick
	Down	Tilt down	Control video slow motion
	Left	Pan left	Control video rewind
	Right	Pan right	Control video forward
	Turn Clockwise	Zoom in	
	Turn Anticlockwise	Zoom out	



## 2.4 LCD Display

All operation buttons will be display on the LCD screen. LCD screen will display if it does not receive any input, the power-saving mode will automatically turn on after 30 seconds(brightness is reduced to a minimum).


## 3. Keyboard settings and queries

Settings and queries can be configured using joystick and buttons on keyboard as follows:

### 3.1 Keyboard Setting

Press  for 3 seconds to enter the keyboard configuration menu ( Default password : 8888).

### 3.2 Keyboard Queries

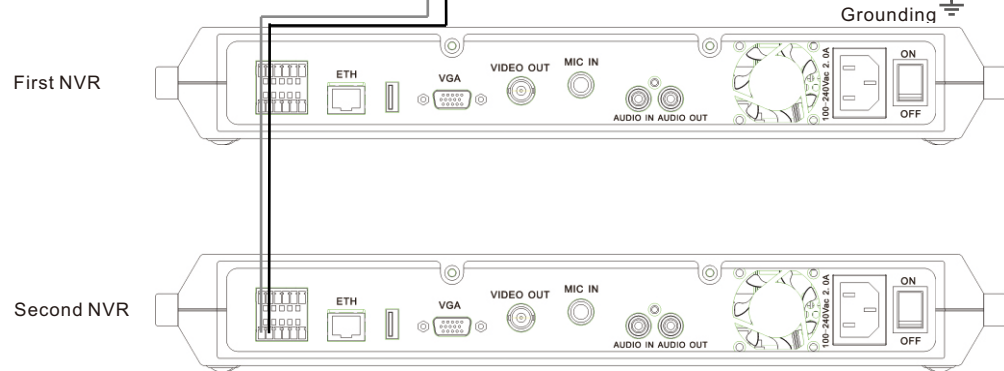
Press  to query on keyboard address, model number and serial number.

## 4. Typical Wiring Diagram

Slave Keyboard



Master Keyboard



## 5. Using Keyboard

A keyboard can control multiple NVRs, operate surveillance operation for all functions.

The keyboard has two modes of operation:


NVR Control: The keyboard can operate NVR.

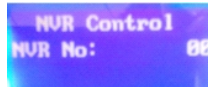
TV Wall Control: Set the correspondence buttons between the video source and video wall.


Keyboard mode switching: keyboard will go into default NVR control mode when power on.

### 5.1.Video Queries and Playback

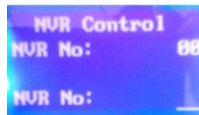
1) Check the keyboard display panel, confirm the keyboard is under the NVR control mode, as shown in the following picture.

If not, press  to switch to NVR control mode.




2) During use multiple NVRs. on NVR control mode. press  button, shown in the following picture.

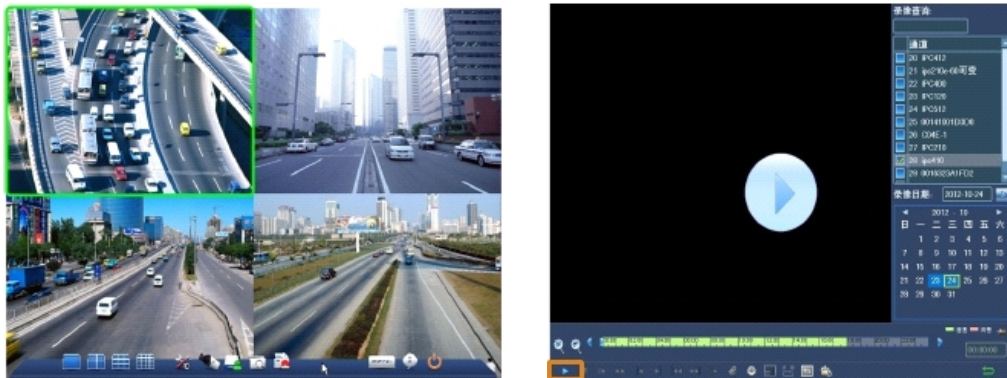
Enter NVR device number and press  to complete the action.



3) Rotate the joystick to scroll the menu, press  button, playback will pop up on the menu.


Playback: Rotate the joystick and select video then press  to start video playback, as shown in the picture.

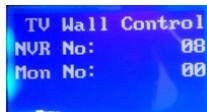
Record Queries: Rotate the joystick to select playback video source press  to start video playback.





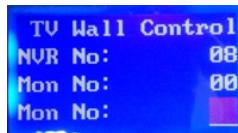
## 5.2 TV Wall Control



Import the TV wall scheme layout and decoder channel for TVWall control usage.

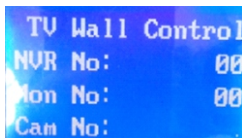
1) Ensure the keyboard display is on TV wall mode as shown on figure below. If there is no TV wall mode, please press  to switch to TV Wall control mode.



2) Press  button and enter monitor device number, press  to confirm.



3) Press  button and enter camera number, press  to confirm.



4) Users can control the camera operation by using the joystick or right keyboard region. Refer to 5.3.

### 5.3 Camera Control

On NVR control mode, press  to operate on camera PTZ. On TV wall mode, select the camera and then operate the PTZ control.

- 1) Rotate the joystick to move the PTZ, the harder the movement, the faster the PTZ control will move
- 2) Adjust vision through joystick
- 3) Use left keyboard region to control button, focus, aperture, zoom and preset operation.

## 6. Technical Parameters

<b>Index</b>	<b>Description</b>
Control NVR	Multiple NVR
Control Joystick	Joystick
Com Port	RS-422 half duplex Baud Rate: 9600
LCD Display	LCD: 128X64
Com Wiring	Max 1200m
Operation Environment	-10~+50℃
Power	DC-12V $\pm$ 10% 50Hz
Power Consumption	Max 10W
Dimension	360(L)X196(W)X110(H)
Weight	2.9kg

