



NETKEYBOARD NKB1000

Zhou_feng2 671513

Keyboard Overview

Solution

Operation

Keyboard Overview

Overview - Appearance

LCD Display Panel



Common Area

DVR Area

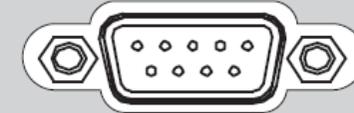
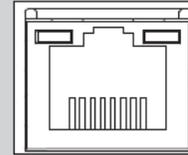
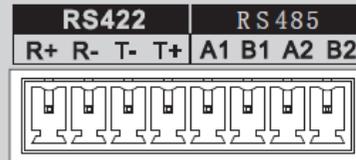
PTZ Camera Area

Joystick

LED Indicator

Overview - Interface

NKB1000

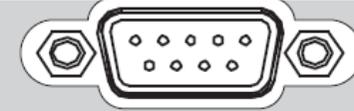
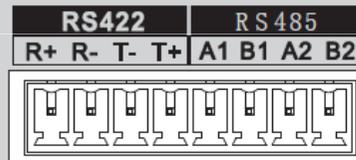


RS232



DC 12V
=G_{ND}

KBD1000

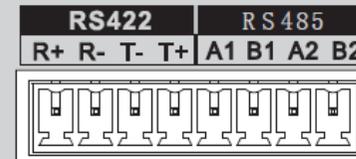


RS232



DC 12V
=G_{ND}

KB1000



DC 12V
=G_{ND}

Solution

Keyboard to controls PTZ cameras

1 keyboard controls max. **32** PTZ cameras.

RS485 Connection

All 3 models



RS 485
A1 B1 A2 B2



1 keyboard controls max. **2048** PTZ cameras.

Network Connection

NKB1000 only

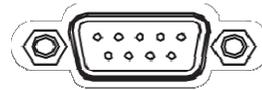


Keyboard to controls DVR/NVR

1 keyboard controls max. **1** DVR/NVR.

RS232 Connection

NKB/KBD1000 only



RS232



1 keyboard controls max. **2048** DVR/NVRs.

Network Connection

NKB1000 only

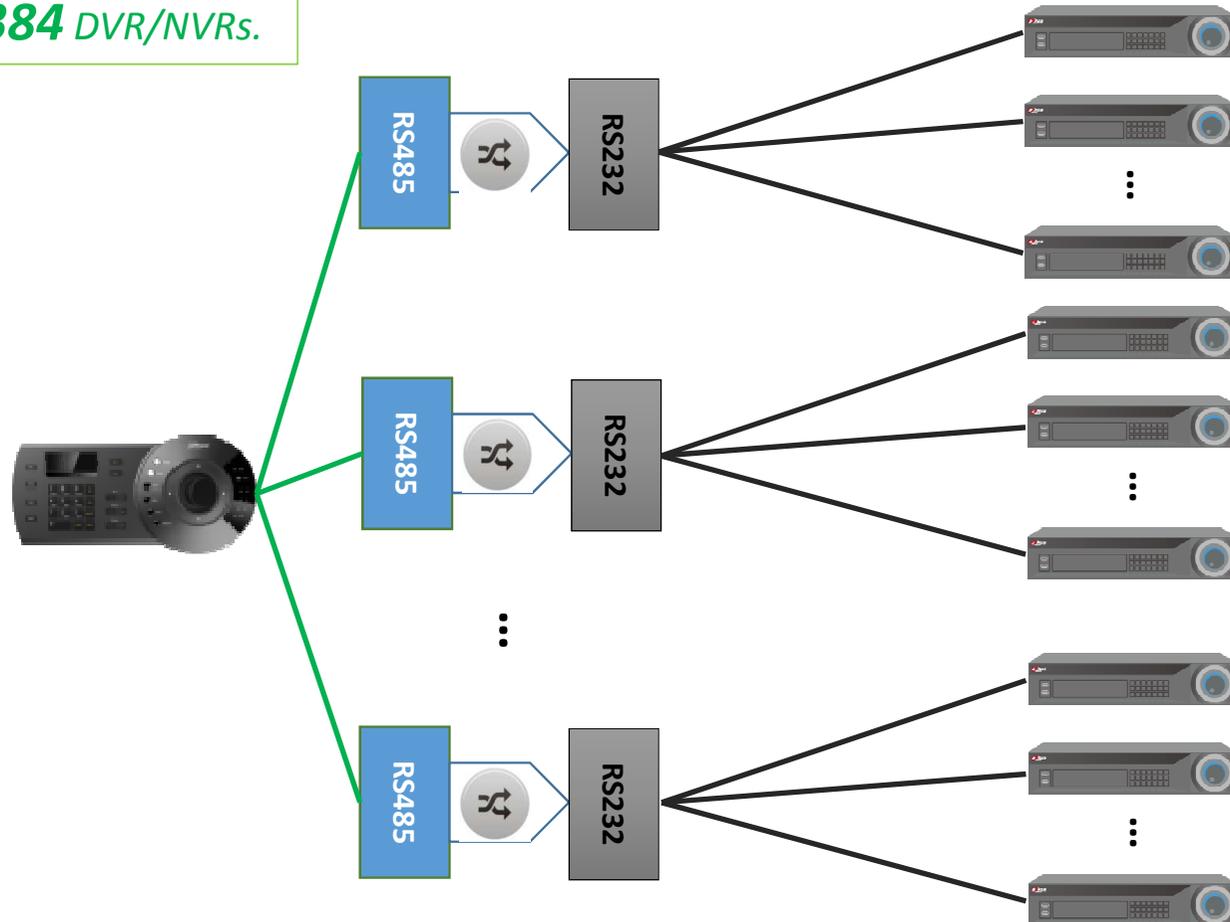


Keyboard to controls DVR/NVR

1 keyboard controls max. **384** DVR/NVRs.

RS485-RS232 Box

All 3 models



1 keyboard → 32 RS485-RS232 boxes, 1 RS485-RS232 box → 12 RS232 connections

Keyboard to controls SmartPSS

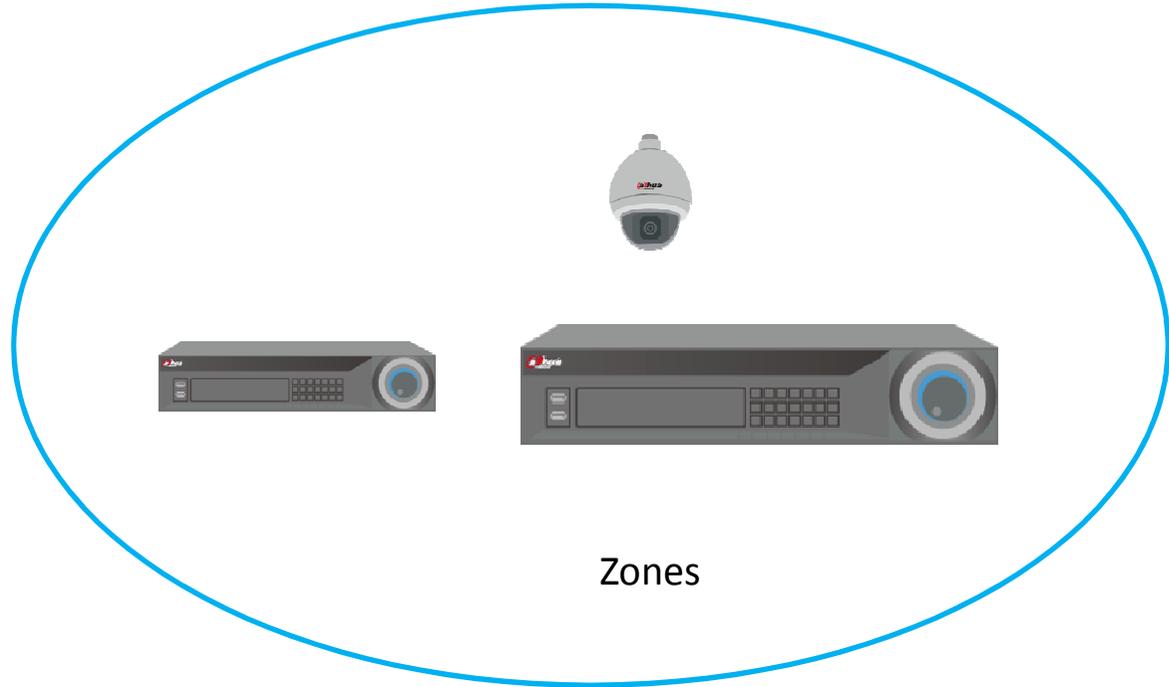
1 keyboard controls max. **1** PC.

USB to SmartPSS

NKB1000 only



Commonly Used Operations



Adding devices to keyboard
“zone” list

Tips: Every device that needs to be controlled by keyboard must be added as a **“zone”** first.

Menu of Keyboard

1 This menu is for configuring the network for the keyboard (NKB1000 only).

Zone Control

Menu Settings

Menu

Zone

Modify PW

Add User

Del User

Modify Right

Config

Import

Export

Clear Zones

Default

Version

Model

Account

3 This menu is for controlling the device after you added the device to the keyboard.

2 This menu is for adding a device (zone) to the keyboard control list.

ID

Name

IP Address

232 Address

485 Address

System

Time

Network

Address

Aux

System Upgrade

System Upgrade

Adding Zones

After you've entered the "zone" menu. You'll see the following parts:

ID: This is the id of zones, you can set any number between 0~2048.

Name: This is the name of zones, you can set any name with characters and digital numbers.

Type: This is the type, you can choose DVR, NVR, SD, etc.

Link: This is the connection type, you can choose NET, COM232, COM485.

Based on the link type, you'll have 3 different configurations as follows:

Link type: NET

IP Addr: IP of the device

Port: Port of the device

Rule: Control protocol "DH-2"

PW: Password for admin account of the device

Link type: COM232

232 Addr: RS232 address of device

Rule: Control protocol

Baud Rate:

Databit:

Parity:

Stop Bit:

Link type: COM485

485 Addr:

Rule:

Baud Rate:

Databit:

Parity:

Stopbit:

Commonly Used Operations

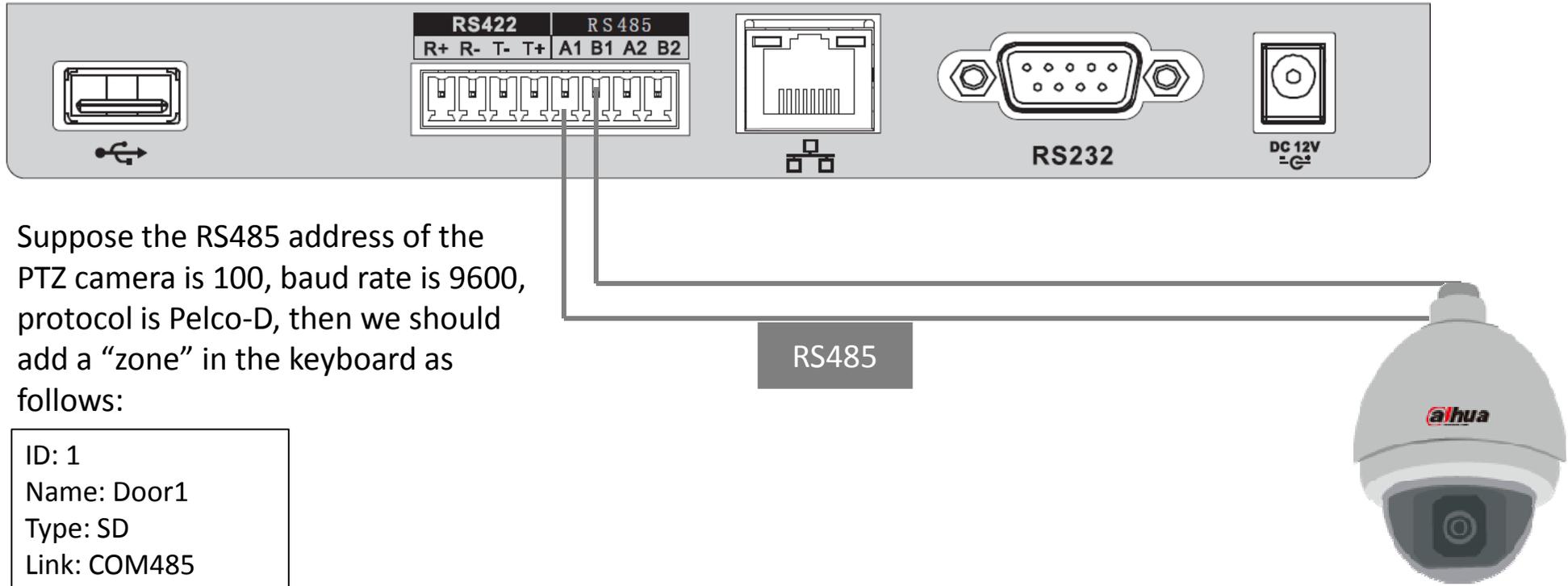
Control PTZ Camera
(HDCVI/Analog/IP)



RS 485
A1 B1 A2 B2



Controlling PTZ Cameras – Via RS485 - Setup

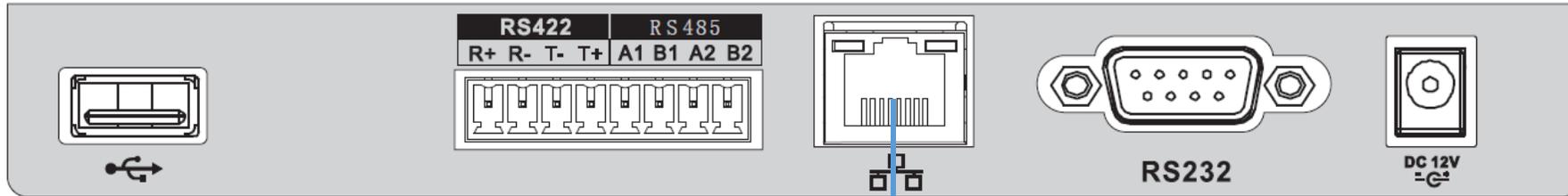


Suppose the RS485 address of the PTZ camera is 100, baud rate is 9600, protocol is Pelco-D, then we should add a “zone” in the keyboard as follows:

ID: 1
Name: Door1
Type: SD
Link: COM485
485Addr: 100
Rule: PELCOD
BaudRate: 9600
DataBit: 8
Parity: None
StopBit: 1

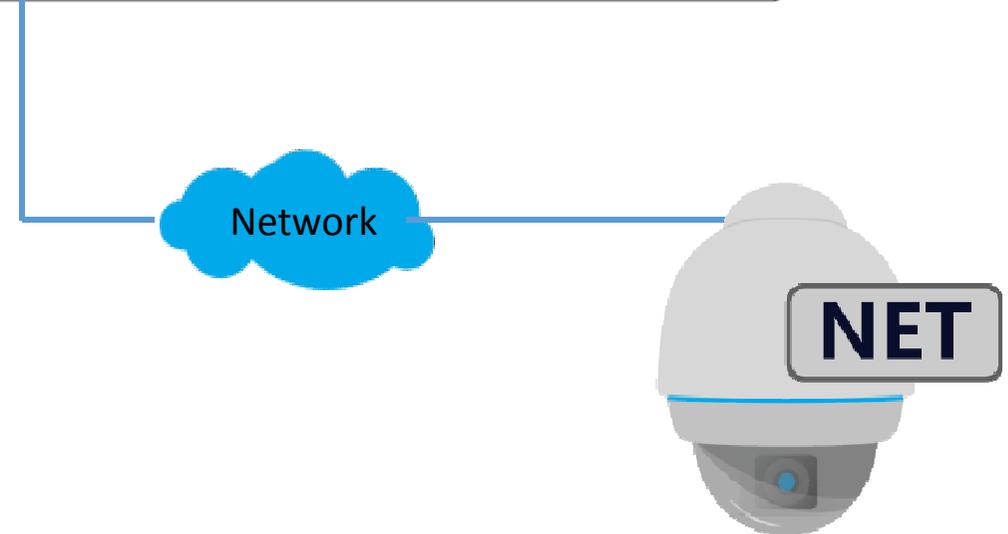
*Note: you can set any ID or Name, but should set other parts based on the actual configuration of the PTZ camera.
RS485connection is available for NKB1000/KBD1000/KB1000.*

Controlling PTZ Cameras – Via Network - Setup



Suppose the IP address of the PTZ camera is 10.15.7.3, port is 37777, password of admin is “qwerty”. Then we should add a “zone” in the keyboard as follows:

ID: 1
Name: Door1
Type: SD
Link: NET
IPAddr: 10.15.7.3
Port: 37777
Rule: DH-2
PW: qwerty



*Note: you can set any ID or Name, but should set other parts based on the actual settings of the PTZ camera.
Network connection is only available for NKB1000.*

Controlling PTZ Cameras

After you've added the PTZ camera to the "zone" list of the keyboard. Enter the "Zone Control" menu, input the ID of the PTZ camera, click "ENTER", the keyboard will connect to the PTZ camera and show the following interface.

You can also choose other ways to connect: name, address, etc.



Controlling PTZ Cameras - Operation

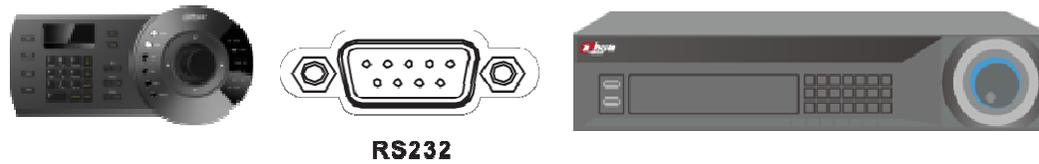


OTHER: Speed dome OSD menu
PRESET: Set/call preset
SCAN: Set/call scan
PAN: Call pan
TOUR: Set/call tour
PATTERN: Set/call pattern

Pan/Tilt/Zoom

IRIS: control the aperture
FOCUS: control the focus
ZOOM: zoom in/out

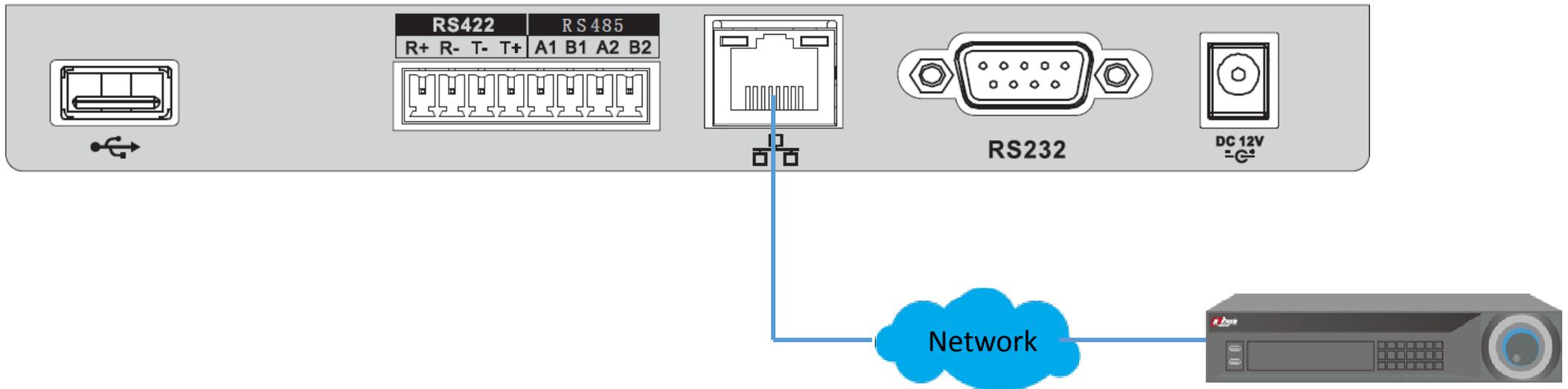
Commonly Used Operations



Control DVR/NVRs



Controlling DVR/NVRs – Via Network - Setup



1 Connect the keyboard and the DVR/NVR to the same network.

Controlling DVR/NVRs – Via Network - Setup

The image shows two screenshots of a DVR/NVR web interface. The left screenshot displays the 'TCP/IP' configuration page. The right screenshot displays the 'Connection' configuration page.

Left Screenshot: TCP/IP Configuration

- Mode: STATIC DHCP
- MAC Address: 90 : 02 : a9 : da : 46 : 06
- MTU: 1500
- IP Version: IPv4
- IP Address: 10 . 15 . 6 . 108
- Subnet Mask: 255 . 255 . 0 . 0
- Default Gateway: 10 . 15 . 0 . 1
- Preferred DNS: 8 . 8 . 8 . 8
- Alternate DNS: 8 . 8 . 4 . 4
- LAN Download
- Buttons: Save, Refresh, Default

Right Screenshot: Connection Configuration

- Max Connection: 128 (0~128)
- TCP Port: 37777 (1025~65535)
- UDP Port: 37778 (1025~65535)
- HTTP Port: 80 (1~65535)
- HTTPS Port: 443 (1~65535)
- RTSP Port: 554 (1~65535)
- RTSP Format: rtsp://<User Name>:<Password>@<IP Address>:<Port>/channel: Channel 1-8; subtype: Code-Stream Type

2

Check the IP address and the port number of the DVR/NVR.

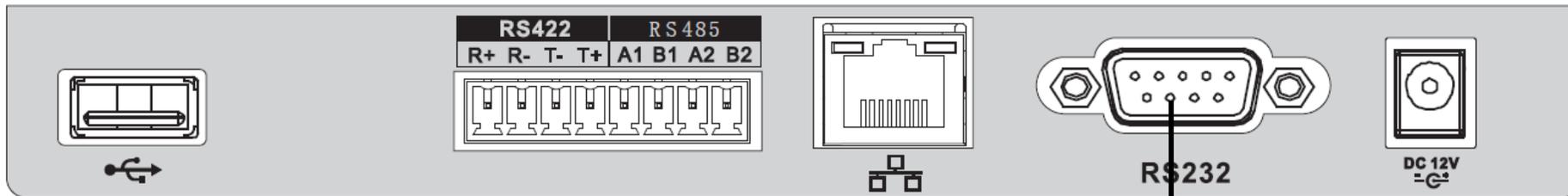
Controlling DVR/NVRs – Via Network - Setup

3

Add the DVR/NVR as a “zone” in the keyboard.

ID: 1
Name: MyDVR
Type: NVR
Link: NET
IPAddr: 10.15.6.108
Port: 37777
Rule: DH-2
PW: admin

Controlling DVR/NVRs – Via RS232 - Setup



1 Connect RS232 cable directly from keyboard to DVR/NVR.



Controlling DVR/NVRs – Via RS232 - Setup

The screenshot displays a configuration menu for a DVR/NVR. On the left is a vertical navigation pane with categories: CAMERA, NETWORK, EVENT, STORAGE, SYSTEM, GENERAL (highlighted), DISPLAY, PTZ, ATM/POS, ACCOUNT, AUTO MAINTAIN, IMP/EXP, DEFAULT, and UPGRADE. The main area shows the 'General' tab with the following settings:

Field	Value
Device ID	HCVR
Device No.	8
Language	ENGLISH
Video Standard	PAL
HDD Full	Overwrite
Pack Duration	60 Minute
Auto Logout	1 Minute (0-60)
Startup Wizard	<input checked="" type="checkbox"/>
Navigation Bar	<input checked="" type="checkbox"/>

At the bottom of the configuration area are three buttons: Save, Refresh, and Default.

2

Check the address of the DVR/NVR in its menu.

Controlling DVR/NVRs – Via RS232 - Setup



3

Check the RS232 configuration of the DVR/NVR.

4

Add the DVR/NVR as a “zone” in the keyboard.

ID: 1
Name: MyDVR
Type: DVR
Link: COM232
232Addr: 8
Rule: DH-2
BaudRate: 9600
DataBit: 8
Parity: None
StopBit: 1

Connecting DVR/NVR

After you've added the DVR/NVR to the "zone" list of the keyboard.
Enter the "Zone Control" menu, input the ID of the DVR/NVR, click "ENTER", the keyboard will connect to the DVR/NVR.

Operation



Joystick up/down: switch among different display layout, such as 1/4/6/8/9/16/25 split, etc.

Operation



Joystick left/right: switch cameras under current display spit.

e.g. : When it's display 1-4 channels in 4-split, move the joystick right direction will display 5-8 channels in 4-split.

Operation



NUM + MULT: change different split.
e.g. : 8+MULT will change the DVR/NVR to 8 split.

Operation



NUM + CAM: choose specific channel to display in full-screen mode.

e.g. : 1+CAM will put channel 1 in full-screen.

Operation



NUM + PTZ: control PTZ for specific channel.

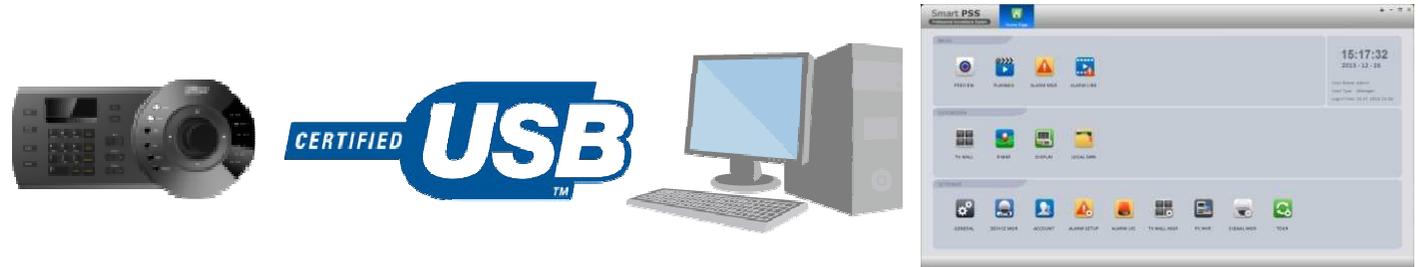
e.g. : suppose channel 5 of DVR/NVR is connected to a PTZ camera, then 5+PTZ will put the camera in full-screen mode and you can use the joystick to control PTZ operations, also to see the OSD menu, set preset, tour and etc.

Operation

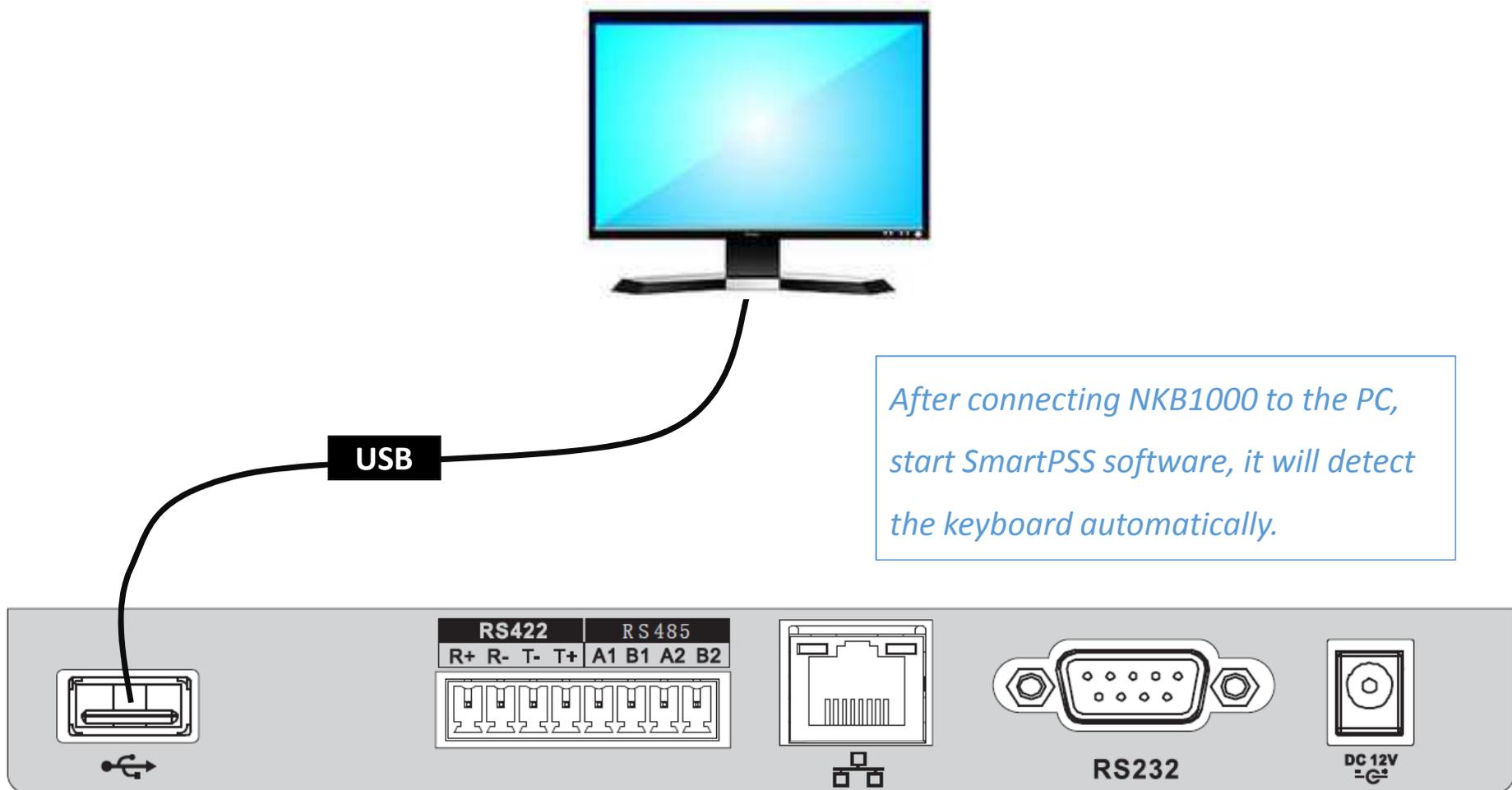
For more specific operations on DVR/NVR, please refer to the user's manual of NKB1000/KBD1000/KB1000.

Commonly Used Operations

Control SmartPSS



Controlling SmartPSS via USB



Controlling SmartPSS via USB

The screenshot displays the SmartPSS Professional Surveillance System interface. The main window shows a list of online devices. Two modal windows are open: 'Modify Device' and 'Device Channel Number Setting'.

Modify Device Window:

- Input Info:** Device Name: 10.15.6.108, Register Mode: IP/Domain, IP/Domain Name: 10.15.6.108, Port: 37777, Type: DVR, Group Name: Default Group, User Name: admin, Password: [masked].
- Device Details:** Device SN: YZA4MZ015WE4J26, Video Input: 8, Video Output: 1, Alarm Input: 0, Alarm Output: 0.

Device Channel Number Setting Window:

No.	Channel Name	Number
1	CAM 1	2001
2	CAM 2	2002
3	CAM 3	2003
4	CAM 4	2004
5	CAM 5	2005
6	CAM 6	2006
7	CAM 7	2007
8	CAM 8	2008

The 'Number' column in the table is highlighted with a red box. Below the table, it states: 'The channel number can be edited, when you click the column.'

Annotations:

- Step 1:** A red box highlights the keyboard icon in the 'Video Input' field of the 'Modify Device' window.
- Step 2:** A red box highlights the 'Number' column in the 'Device Channel Number Setting' window.

Text Overlay:

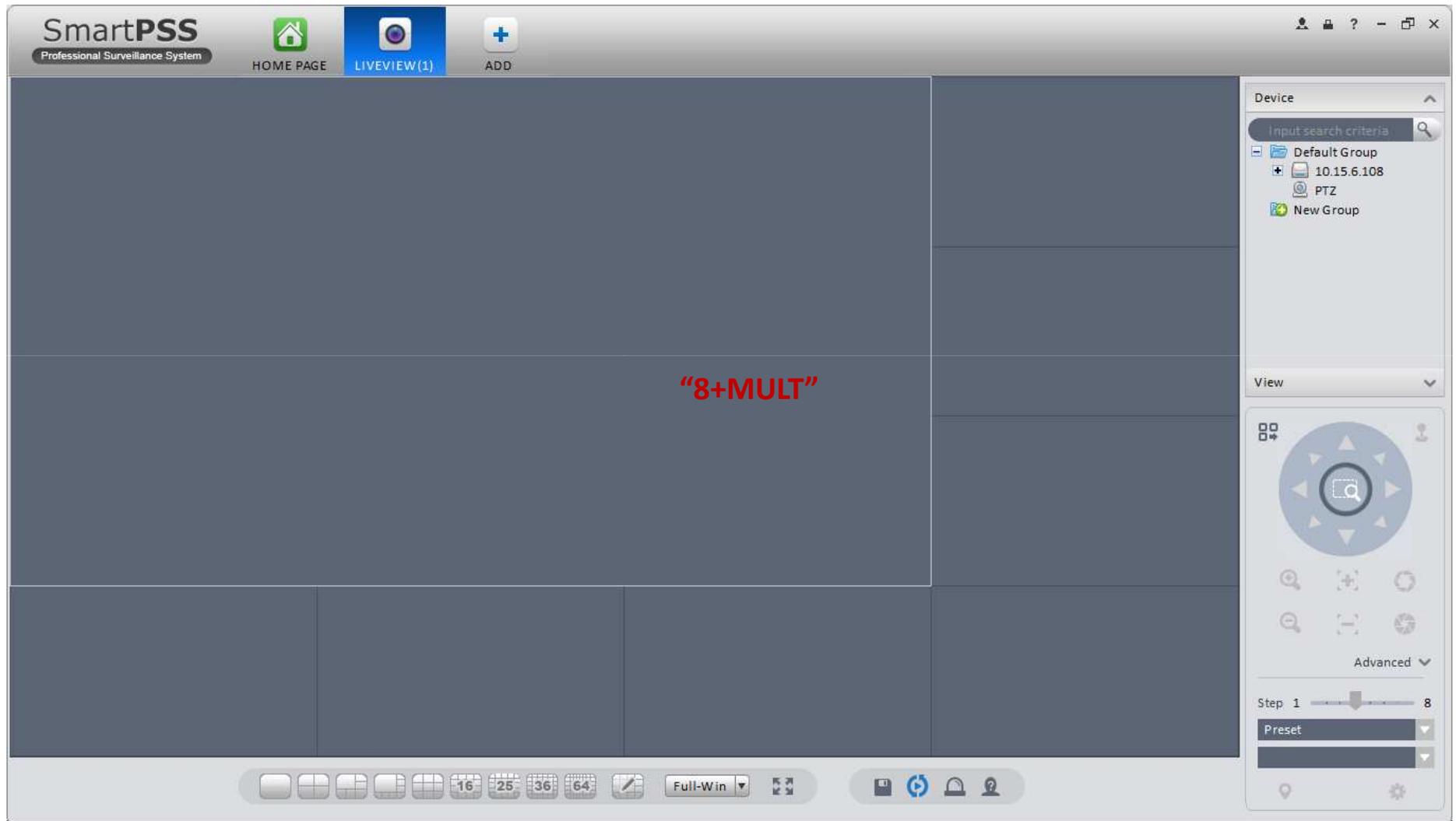
When adding devices in SmartPSS, click the keyboard icon, you can edit the number of all channels. You can use this number to quickly switch between different cameras.

Controlling SmartPSS via USB - Preview



NUM + MULT: choose specific screen layout, e.g., 8 + MULT choose 8 split display.

Controlling SmartPSS via USB - Preview

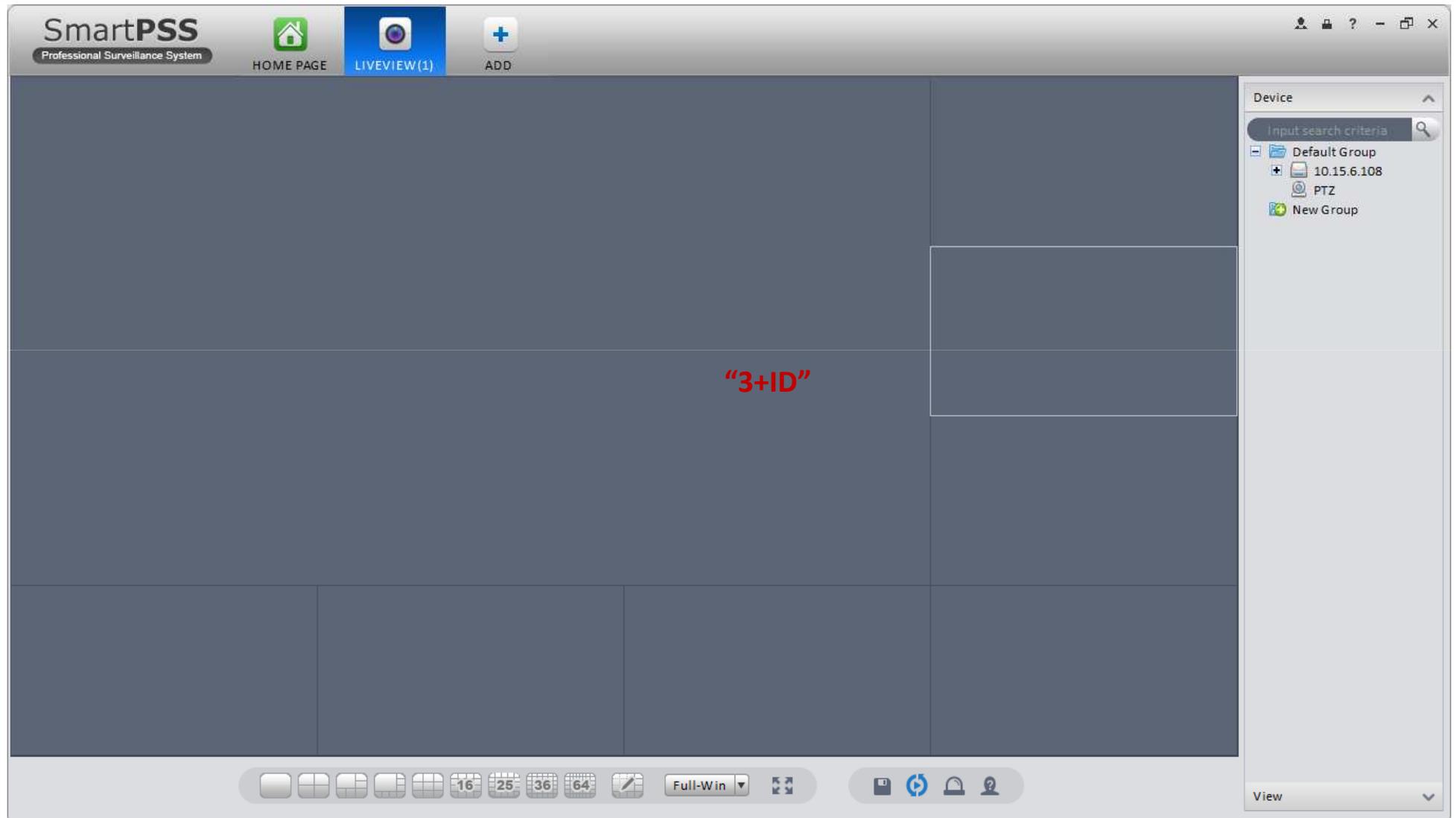


Controlling SmartPSS via USB - Preview



NUM + ID: choose specific window, e.g., 3 + ID choose the 3rd window. You can also use the joystick to choose a window.

Controlling SmartPSS via USB - Preview



Controlling SmartPSS via USB - Preview



NUM + CAM: choose specific camera to display in current selected window.
ENTER: switch current window between full screen and current display mode.

Controlling SmartPSS via USB - Preview

The screenshot displays the SmartPSS Professional Surveillance System interface. The top navigation bar includes the SmartPSS logo, a 'HOME PAGE' button, a 'LIVEVIEW(1)' button, and an 'ADD' button. The main display area is split into two sections: a live video feed on the left and a greyed-out area on the right. The video feed shows a close-up of a red surface with a cartoon character and the text 'Channel 5'. The timestamp '2015-01-13 12:22:55 Tue' is visible in the top right of the video area. A red text overlay 'Click "ENTER" again' is positioned in the center of the greyed-out area. On the right side, there is a 'Device' panel with a search bar and a tree view showing a 'Default Group' containing eight cameras (CAM 1 to CAM 8) and a 'PTZ' camera. Below this is a 'View' panel with a circular navigation pad and various control icons. At the bottom, there is a 'Full-Win' button and a row of icons for different camera views (16, 25, 36, 64).

Controlling SmartPSS via USB - Preview



PTZ: if current window is displaying video from a PTZ camera, use this key to enter PTZ control for it.

Controlling SmartPSS via USB - Preview



OTHER: Speed dome OSD menu
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Pan/Tilt/Zoom

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