



Keyboard Overview

Solution

Operation

Keyboard Overview

Overview - Appearance

LCD Display Panel



Common Area

DVR Area

PTZ Camera Area

Joystick

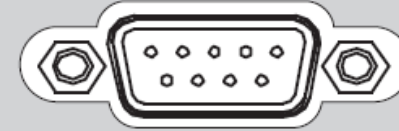
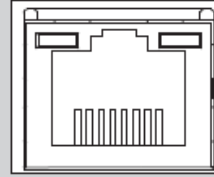
LED Indicator

Overview - Interface

NKB1000



RS422				RS 485			
R+	R-	T-	T+	A1	B1	A2	B2
2	5	2	5	2	5	2	5



RS232

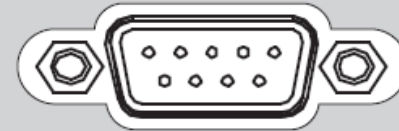


DC 12V
=Gnd

KBD1000



RS422				RS 485			
R+	R-	T-	T+	A1	B1	A2	B2
2	5	2	5	2	5	2	5



RS232



DC 12V
=Gnd

KB1000



RS422				RS 485			
R+	R-	T-	T+	A1	B1	A2	B2
2	5	2	5	2	5	2	5



DC 12V
=Gnd

Solution

Keyboard to controls PTZ cameras

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

RS485 Connection

All 3 models



RS485
A1 B1 A2 B2



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

Network Connection

NKB1000 only

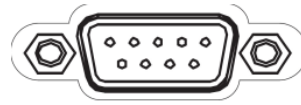


Keyboard to controls DVR/NVR

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

RS232 Connection

NKB/KBD1000 only



RS232



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

Network Connection

NKB1000 only

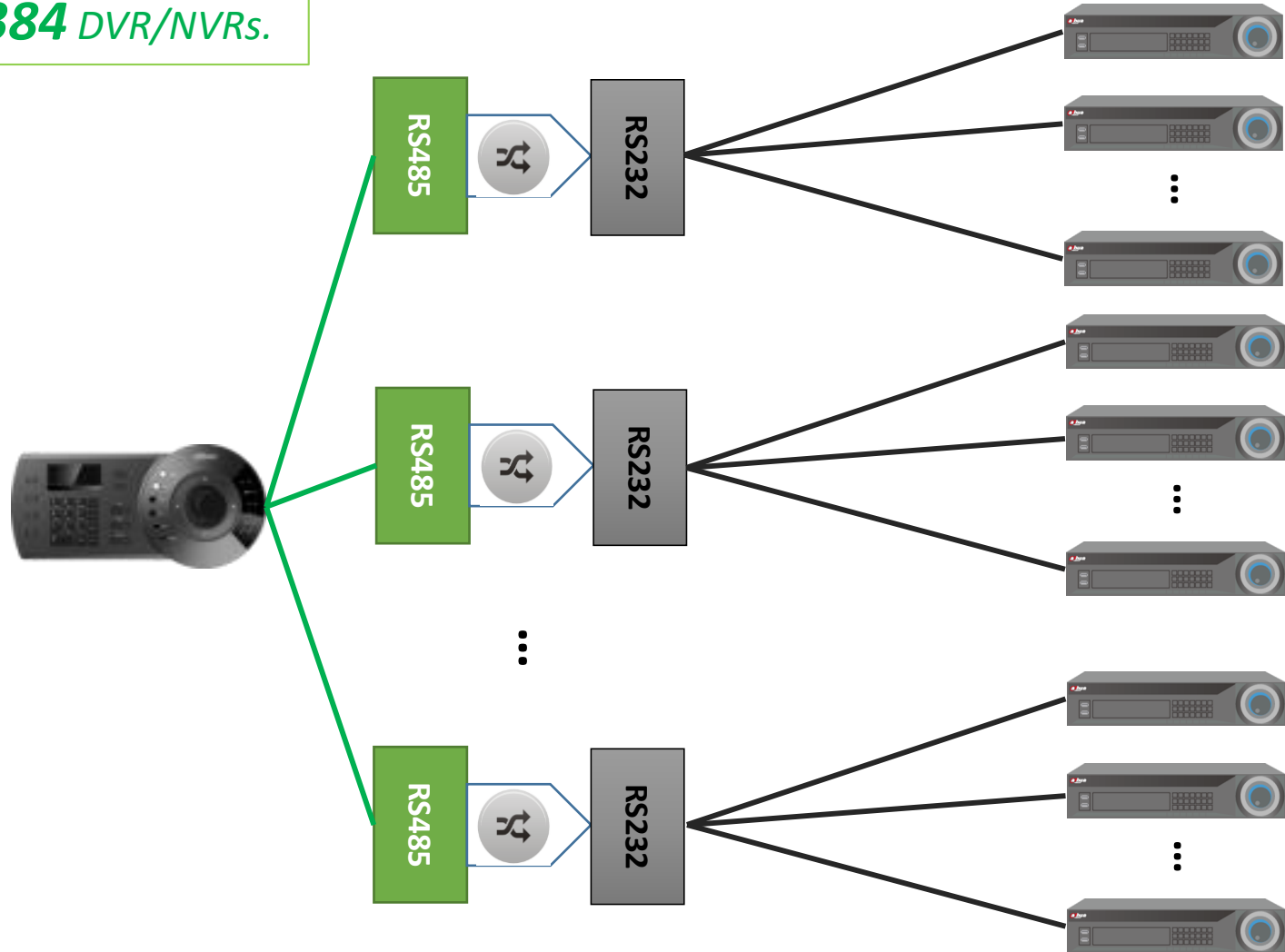


Keyboard to controls DVR/NVR

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

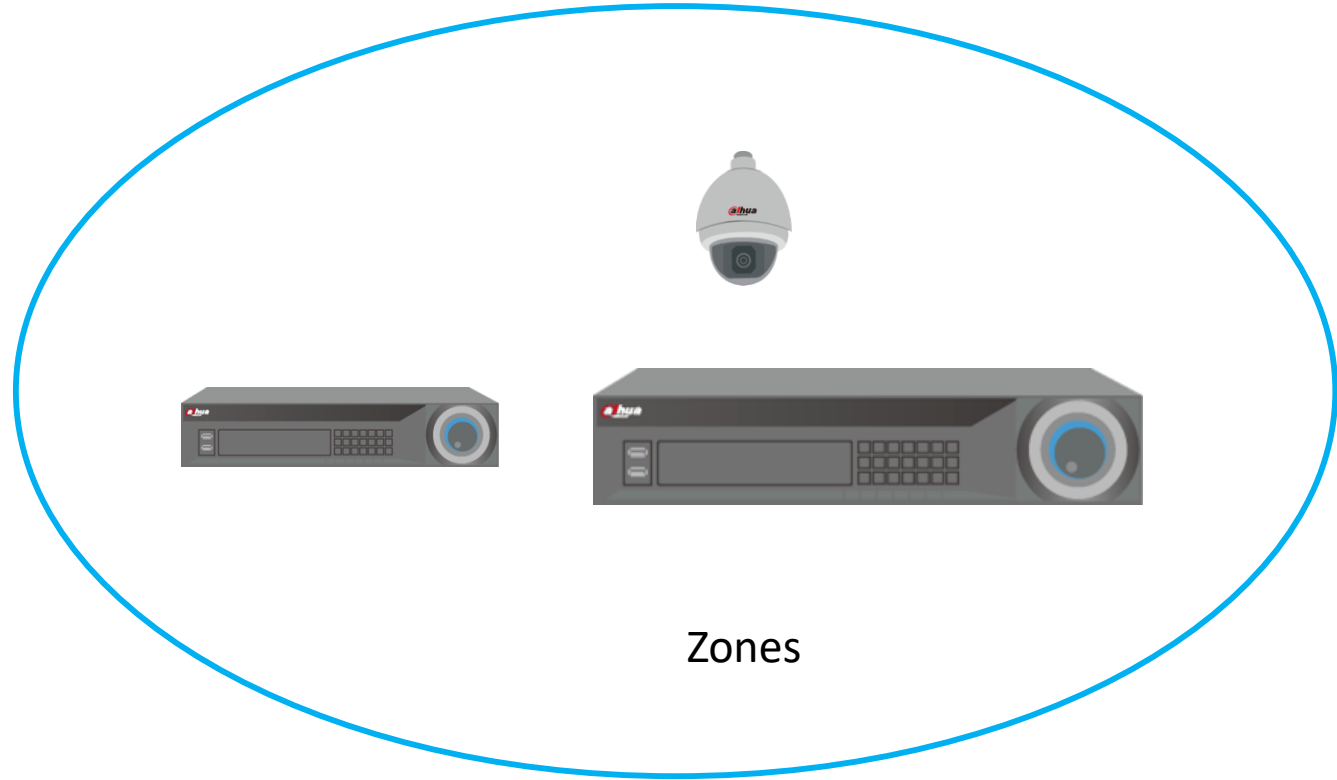
1 keyboard controls max. **1** PC.

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

Zone

Modify PW

Add User

Del User

Modify Right

Import

Export

Clear Zones

Default

Version

Model

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

Time

Network

Address

Aux

System Upgrade

System

Account

Config

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



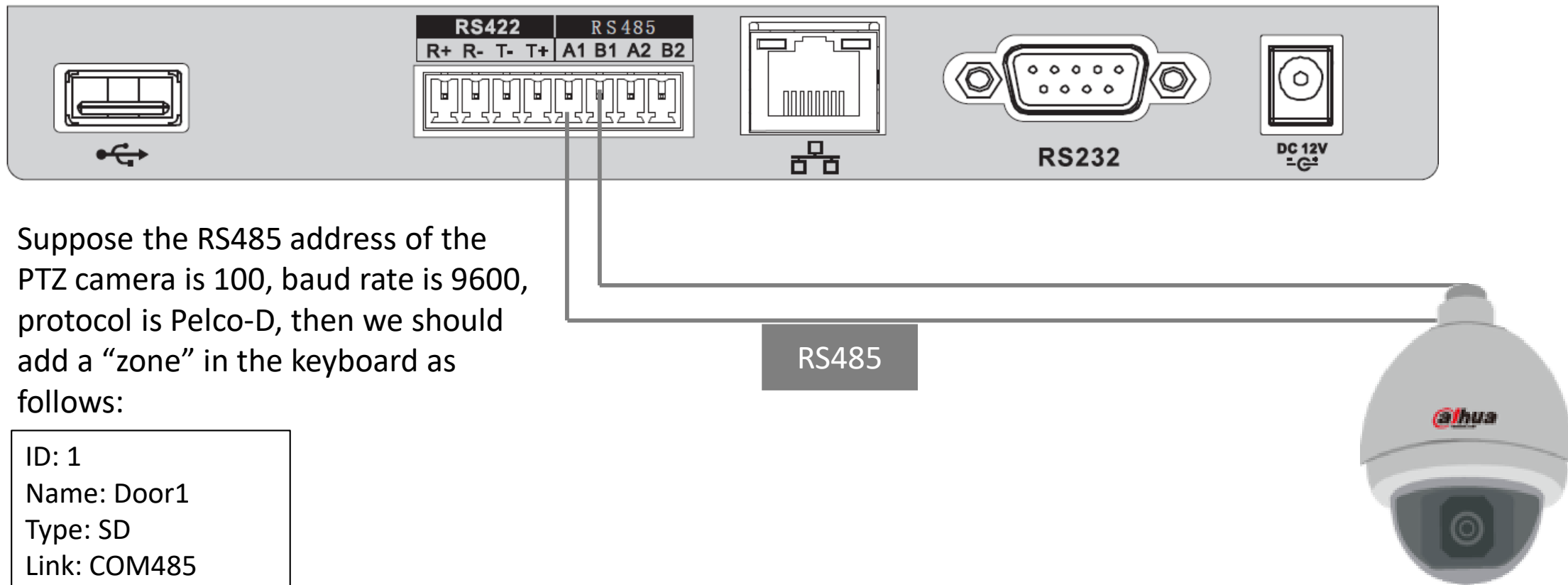
...



...



Controlling PTZ Cameras – Via RS485 - Setup

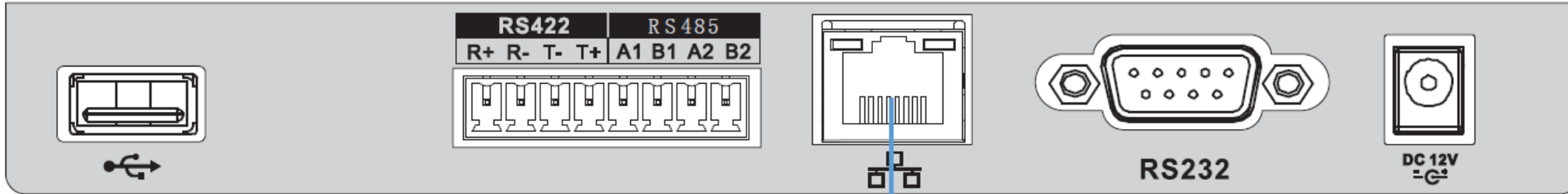


Suppose the RS485 address of the PTZ camera is 100, baud rate is 9600, protocol is Pelco-D, then we should add a “zone” in the keyboard as follows:

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

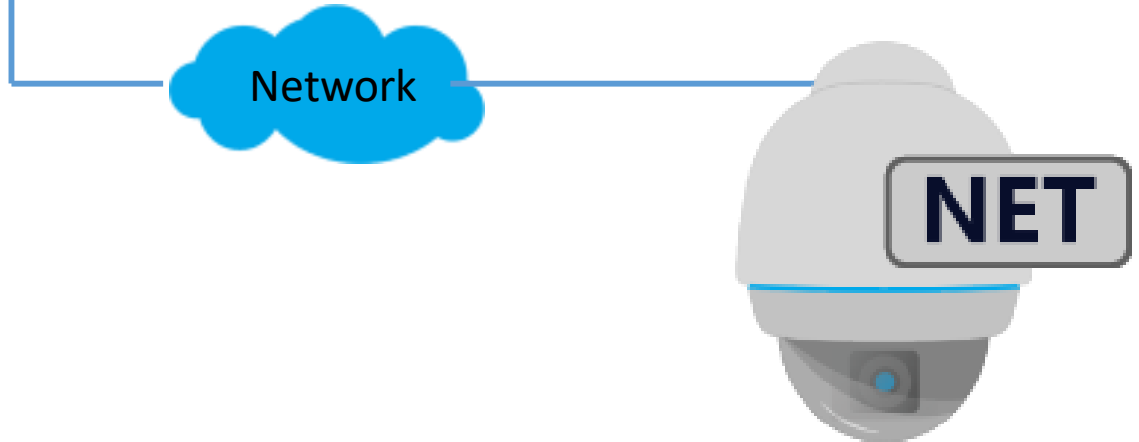
*Note: you can set any ID or Name, but should set other parts based on the actual configuration of the PTZ camera.
RS485connection is available for NKB1000/KBD1000/KB1000.*

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

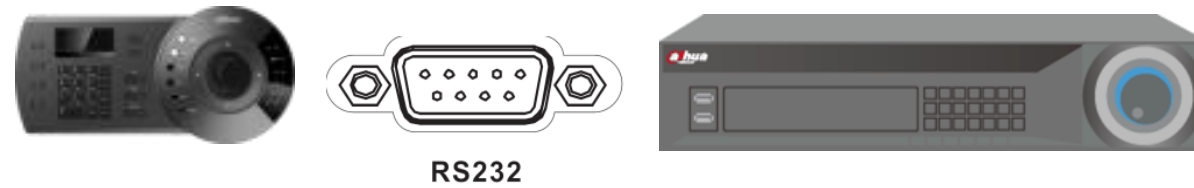


OTHER: Speed dome OSD menu
PRESET: Set/call preset
SCAN: Set/call scan
PAN: Call pan
TOUR: Set/call tour
PATTERN: Set/call pattern

Pan/Tilt/Zoom

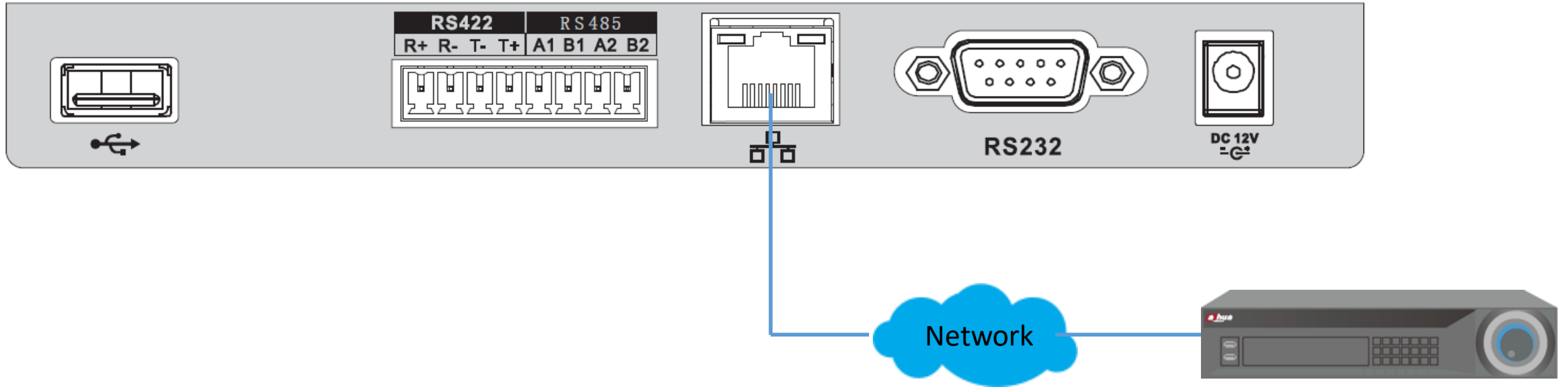
IRIS: control the aperture
FOCUS: control the focus
ZOOM: zoom in/out

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 under the 'NETWORK' menu. The 'Mode' is set to 'STATIC'. The IP Address is 10.15.6.108, Subnet Mask is 255.255.0.0, and Default Gateway is 10.15.0.1. The right screenshot displays the 'Connection' configuration page, showing various ports and connection settings.

Parameter	Value	Range
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)

2

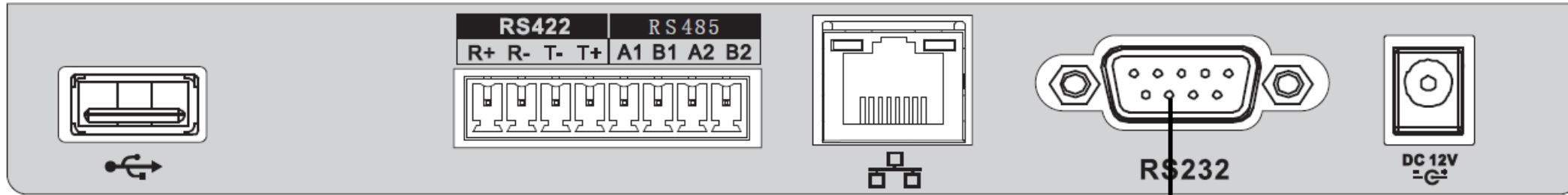
Check the IP address and the port number of the DVR/NVR.

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 shows a web interface for configuring a DVR/NVR. On the left is a navigation menu with categories: CAMERA, NETWORK, EVENT, STORAGE, and SYSTEM. Under SYSTEM, the following options are listed: GENERAL (highlighted in orange), DISPLAY, PTZ, ATM/POS, ACCOUNT, AUTO MAINTAIN, IMP/EXP, DEFAULT, and UPGRADE. The main content area is titled 'General' and contains the following settings:

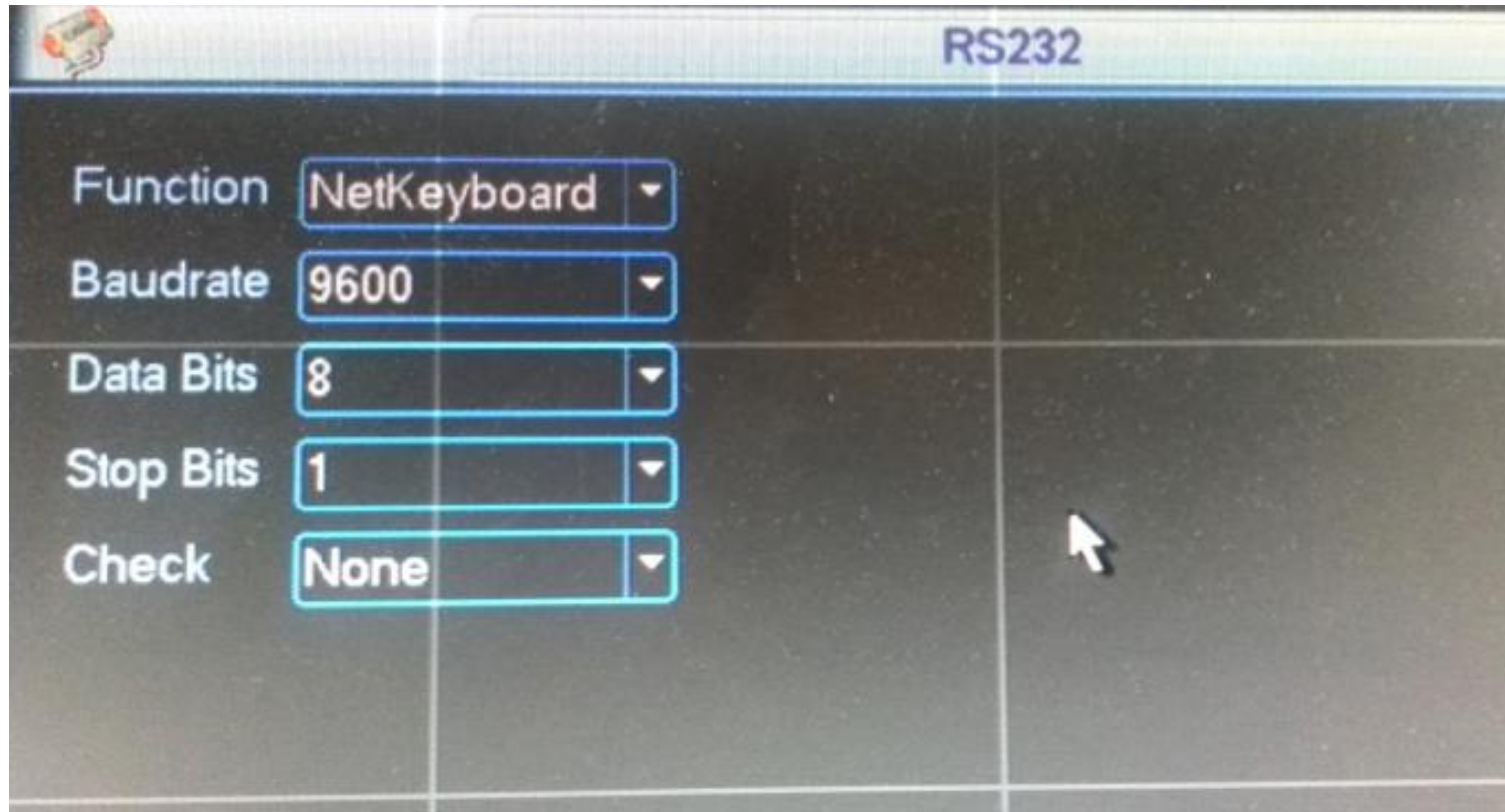
Field	Value
Device ID	HCVR
Device No.	8
Language	ENGLISH
Video Standard	PAL
HDD Full	Overwrite
Pack Duration	60 Minute
Auto Logout	1 Minute (0-60)
Startup Wizard	<input checked="" type="checkbox"/>
Navigation Bar	<input checked="" type="checkbox"/>

At the bottom of the settings 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 split.

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

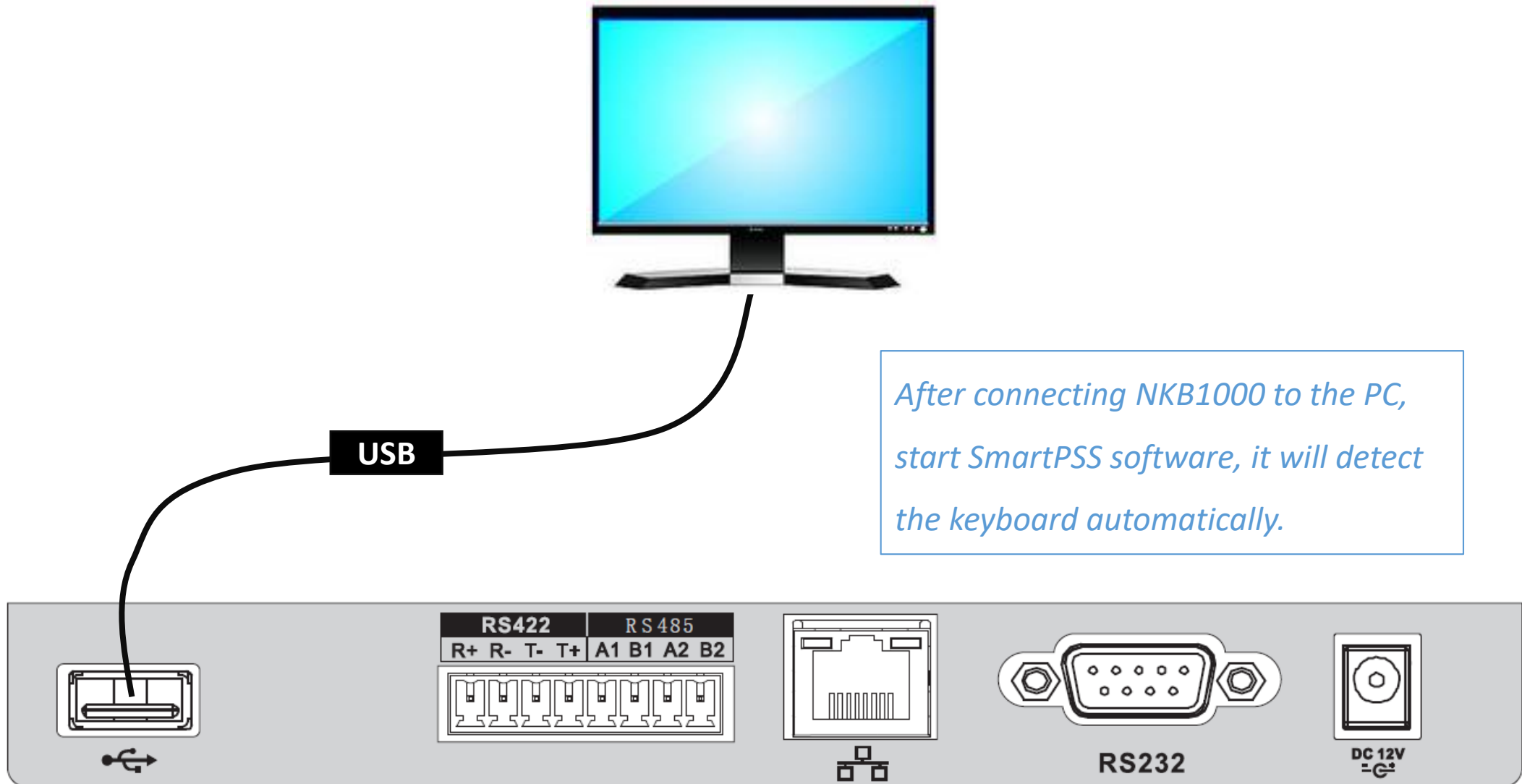
For more specific operations on DVR/NVR, please refer to the user's manual of NKB1000/KBD1000/KB1000.

Commonly Used Operations

Control SmartPSS



Controlling SmartPSS via USB



Controlling SmartPSS via USB

The image displays the SmartPSS Professional Surveillance System interface. At the top, there are navigation tabs: HOME PAGE, DEVICES, and ADD. The main area shows a list of online devices and two pop-up windows for configuration.

Online Devices:

All	IP	Type	
<input type="checkbox"/>	1	10.15.6.129	DVR
<input type="checkbox"/>	2	10.15.6.248	DVR
<input type="checkbox"/>	3	10.15.6.86	IPC-HDE

Modify Device (Step 1):

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: •••••

Device Details:

- Device SN: YZA4MZ015WE4J26
- Video Input: 8
- Video Output: 1
- Alarm Input: 0
- Alarm Output: 0

Device Channel Number Setting (Step 2):

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

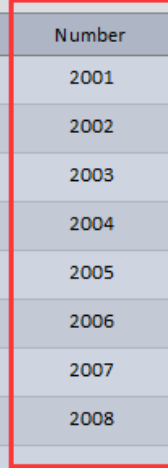
The channel number can be edited, when you click the column.

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.



Step 1



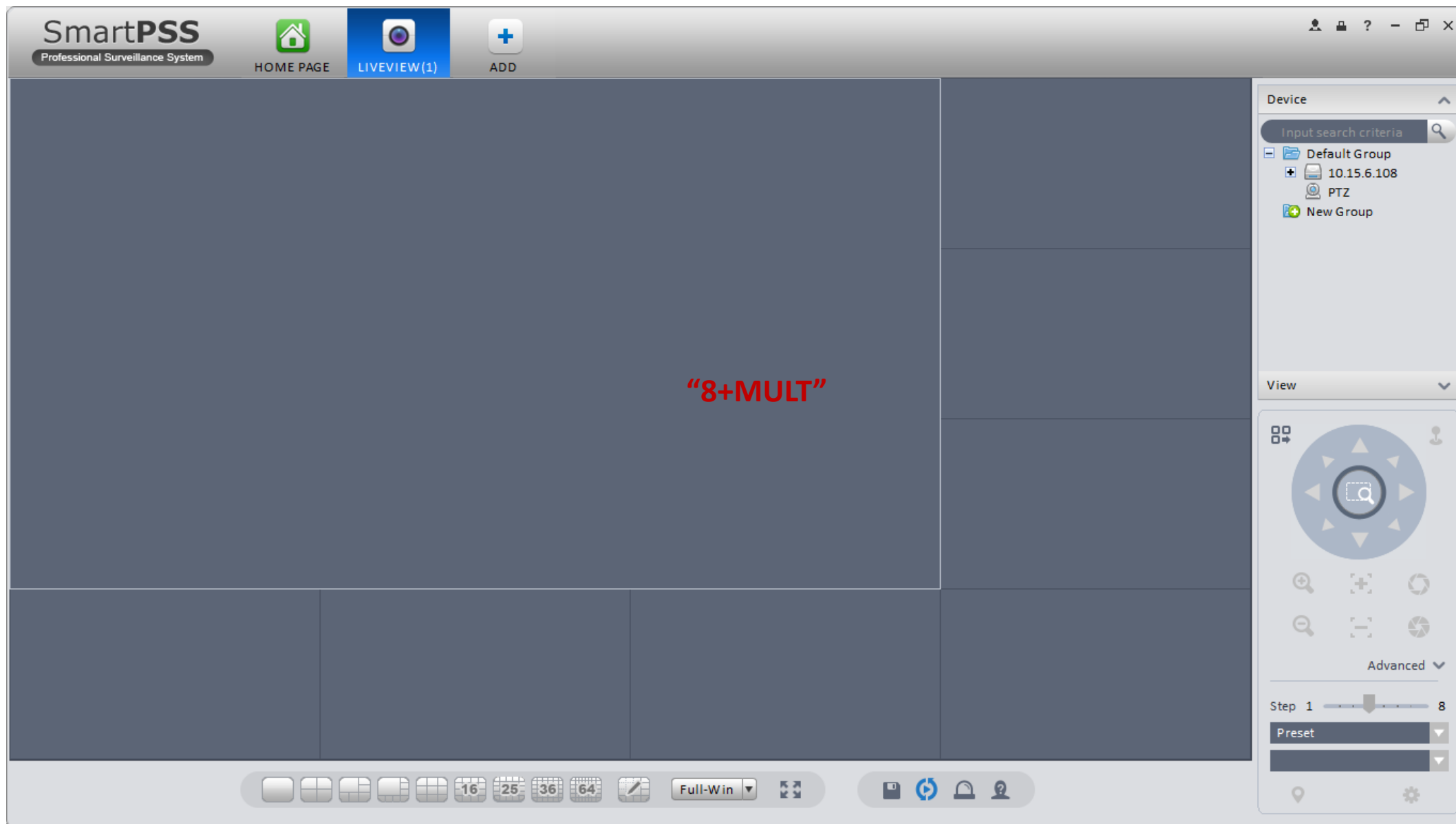
Step 2

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

The image displays the SmartPSS Professional Surveillance System interface. The top navigation bar includes the SmartPSS logo, a 'HOME PAGE' button, a 'LIVEVIEW(1)' button (which is highlighted), and an 'ADD' button. The main content area is a large dark blue rectangle with the text "3+ID" centered in red. On the right side, there is a 'Device' panel with a search bar and a list of devices: 'Default Group', '10.15.6.108', 'PTZ', and 'New Group'. The bottom status bar contains various icons for window management, a 'Full-Win' dropdown menu, and other system controls.

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. At the top left, the logo "SmartPSS Professional Surveillance System" is visible. The navigation bar includes "HOME PAGE", "LIVEVIEW(1)", and "ADD". The main video feed shows a red box with a cartoon character and the text "Channel 5". The timestamp "2015-01-13 12:22:55 Tue" is displayed in the upper right of the video area. A red text overlay in the center of the video feed reads "Click 'ENTER' again". On the right side, there is a "Device" panel with a search bar and a list of cameras (CAM 1 to CAM 8) and a PTZ camera. Below the device list is a "View" section with a directional pad and other controls. At the bottom, there is a status bar with various icons and a "Full-Win" button.

SmartPSS
Professional Surveillance System

HOME PAGE LIVEVIEW(1) ADD

2015-01-13 12:22:55 Tue

Channel 5

Click "ENTER" again

Device

Input search criteria

- Default Group
 - 10.15.6.108
 - CAM 1
 - CAM 2
 - CAM 3
 - CAM 4
 - CAM 5
 - CAM 6
 - CAM 7
 - CAM 8
 - PTZ
 - New Group

View

Advanced

Step 1 8

Preset

2

Full-Win

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
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



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