

KINGSAT
Maritime Antennas

KINGSAT
www.kingsat-tech.com

Video Compression System User Guidance



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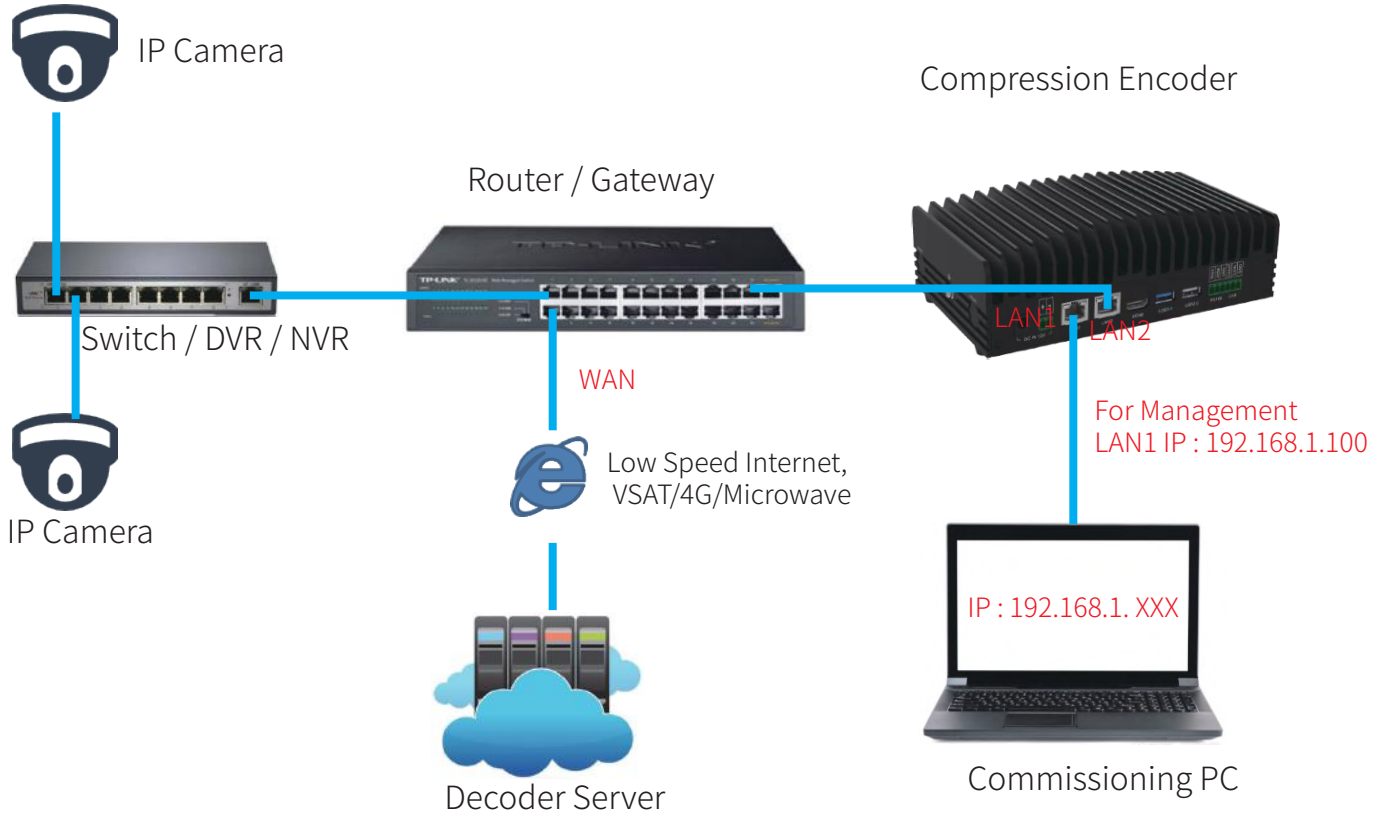
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System Diagram



Encoder Setting

Step 1 Modify Commissioning PC Local IP

Internet 协议版本 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address: 192 . 168 . 1 . 101

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

Validate settings upon exit

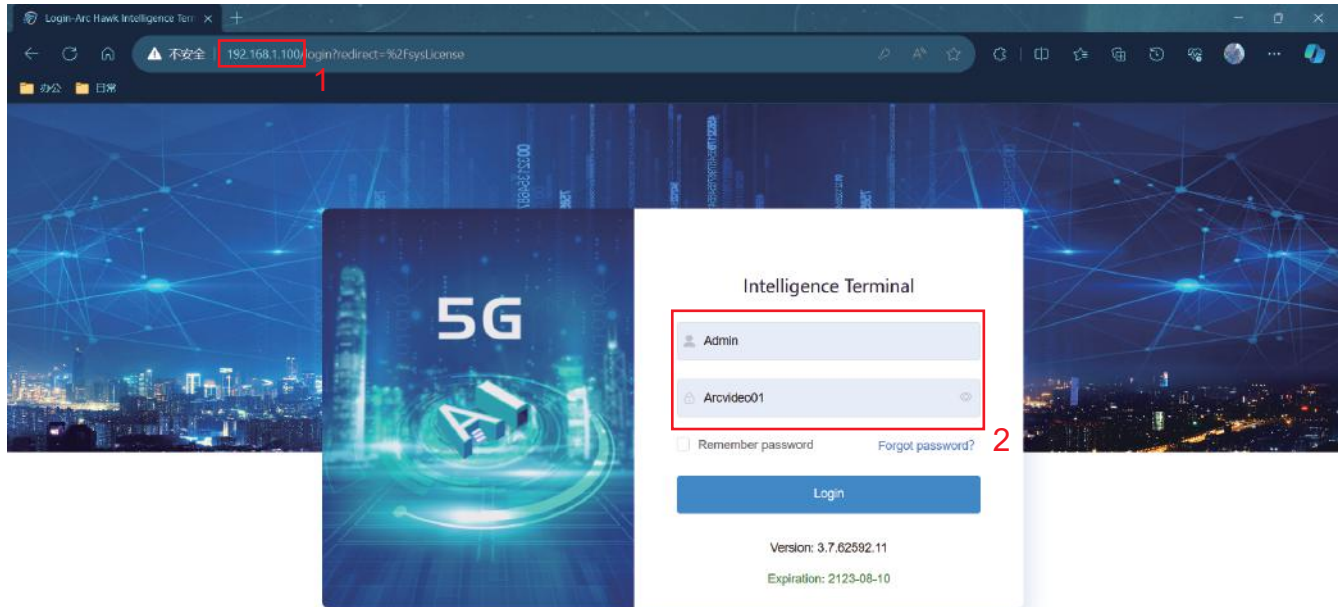
Advanced...

OK Cancel

IP Address : **192.168.1.101**
Subnet Mask: **255.255.255.0**

Encoder Setting

Step 2 Login Encoder Management Platform



- 1) Encoder Management IP : **192.168.1.100**
- 2) Account: **Admin** Password: **Arcvideo01**

Encoder Setting

Step 3 Change Encoder Name

Intelligence Terminal | Version: 3.7.62592.11 | Expiration: 2123-08-10 | Thu, November 23, 2023 at 9:35:35 AM

Basic Config

Device ID: BOX_AECNV23130051 [Copy](#) **Record this Device ID**

Modem: IMEC 1001-F3

Version: 3.7.62592.11

* Name: KINGSAT 7/32

Description:

Time: Thu, November 23, 2023 at 9:35:35 AM

[Save](#)

Basic Config → Name

Encoder Setting

Step 4 Record IP Address Obtained from LAN2

The screenshot shows the 'Intelligence Terminal' interface with the 'Network Config' menu item highlighted by a red box and a red arrow labeled '1'. The main content area displays the configuration for two LANs. The LAN2 configuration is highlighted with a red box, and a red arrow labeled '2' points to the IP address, subnet mask, and gateway fields. The LAN2 configuration shows 'Obtaining: Auto', 'IP Address: 192.168.10.103', 'Subnet mask: 255.255.255.0', and 'Gateway: 192.168.10.1'. A tooltip indicates that the IP address is a virtual IP that cannot be used when using DHCP. Below the configuration is a routing table with the following data:

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Net Interface	Operations
0.0.0.0	192.168.10.1	0.0.0.0	UG	100	0	0	LAN2	Delete
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	LAN1	Delete
192.168.10.0	0.0.0.0	255.255.255.0	U	100	0	0	LAN2	Delete

2. Record the IP, subnet mask and gateway obtained by the encoder LAN2

For Example:

(1) IP Address : **192.168.10.103** (2) Subnet Mask : **255.255.255.0** (3) Gateway : **192.168.10.1**

Encoder Setting

Step 5 Connect to Server Setting

Intelligence Terminal | Version: 3.7.62682.11 | Expiration: 2123-08-10

Basic Config | Network Config | **Connection Config** | Input Config | Output Config | Channel Config

Output To Platform | Output To NVR

Output Type: Arlink

Enable:

* Aggregation Platform IP: 8.217.215.94

* Platform Port: 15060

* Local Net Interface: LAN1 LAN2

* IP: 192.168.10.103 * Port: 5060

Platform Password: Input the password

Save Successfully Registered

Connection Config



Output Config



Output To Platform

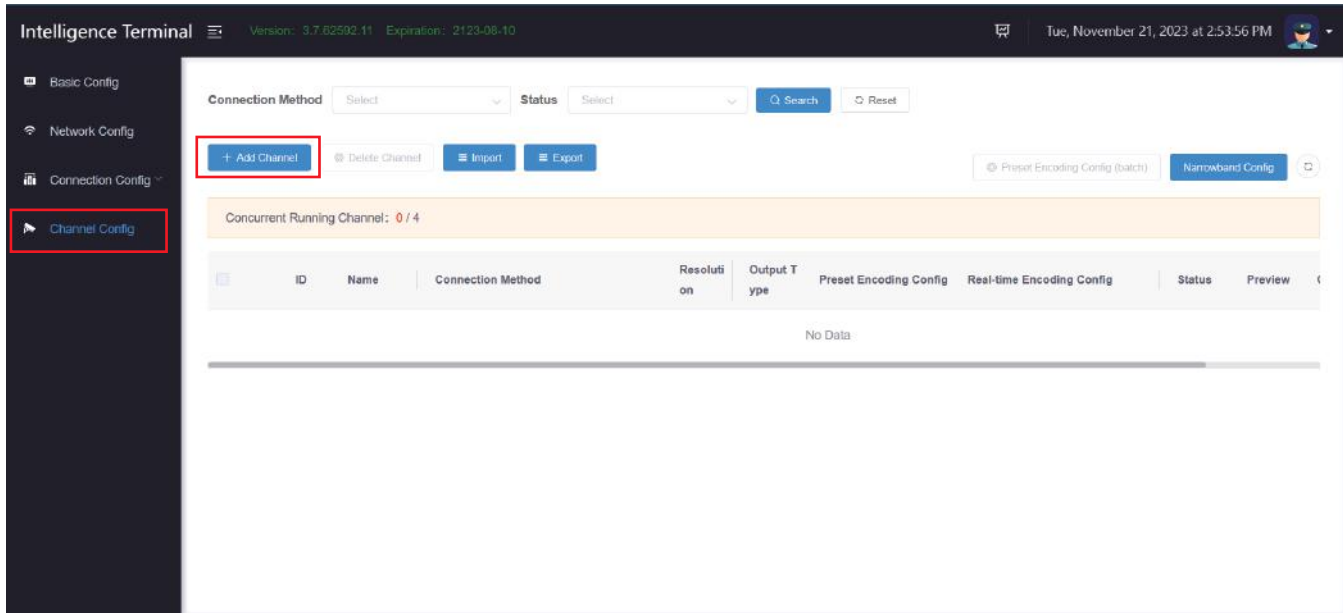
- Output Type: Arlink
- Aggregation Platform IP: 8.217.215.94
- Platform Port: 15060



Save

IP Camera Setting

Step 1 Add IP Camera

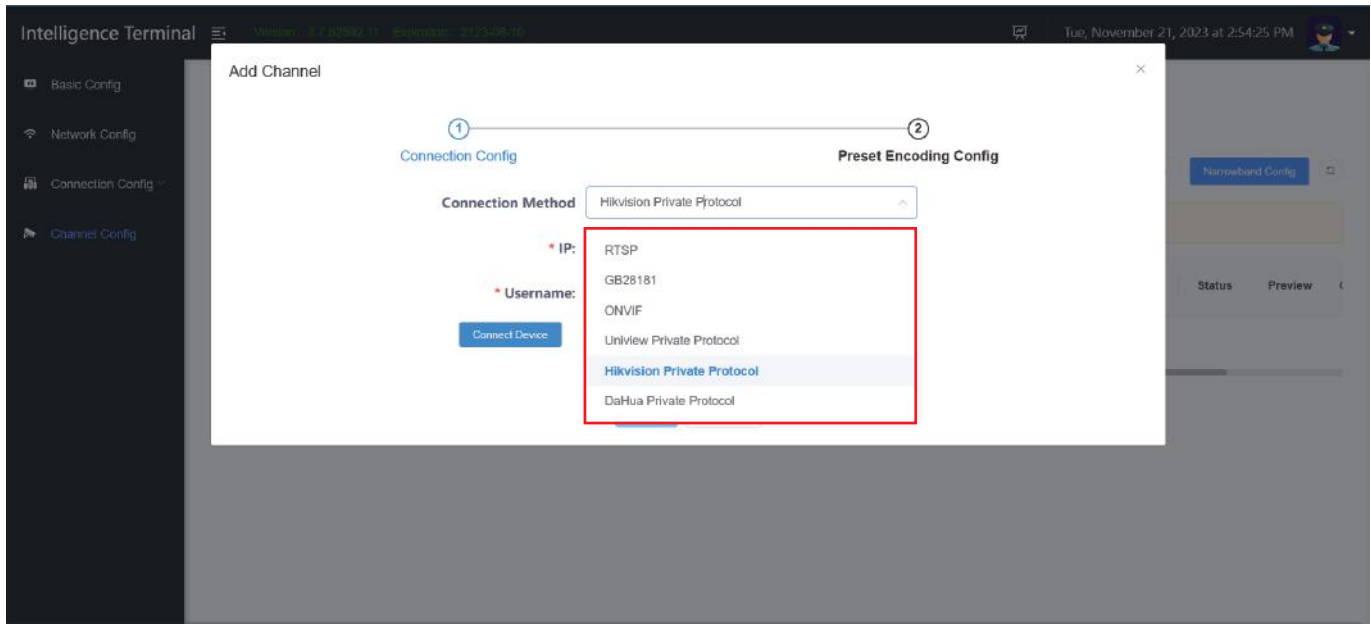


Channel Config → + Add Channel

IP Camera Setting

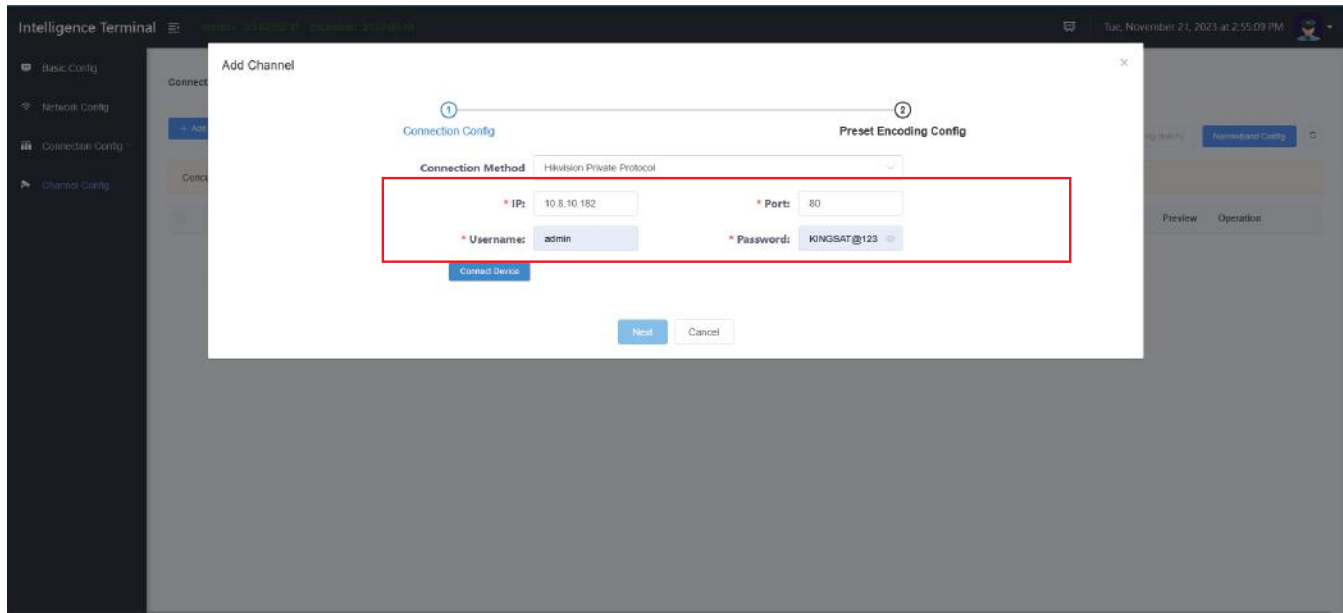
Step 2 Select Connection Method

Select connection method according to match specific IP Camera



IP Camera Setting

Step 3 Modify IP Camera IP / Port / User Name / Password



IP Camera Setting

Step 4 Select IP Camera Channel

The screenshot displays the 'IP Camera Setting' interface. It is divided into two main sections: 'Connection Config' and 'Preset Encoding Config'. The 'Connection Config' section includes a dropdown for 'Connection Method' set to 'Hikvision Private Protocol', and input fields for IP (10.8.10.182), Port (80), Username (admin), and Password (KINGSAT@123). A blue 'Connect Device' button is highlighted with a red box and labeled '1'. Below this, a table shows the connection status: 'Device Status: Successfully connected', 'Device Type: IPC', and 'Channel Number: 1'. The table has columns for 'No.', 'Channel Name', 'Channel Address', and 'Port'. A checkbox in the first row is highlighted with a red box and labeled '2'. Below the table, a 'Custom Name' input field contains 'HGKF_182' and is highlighted with a red box and labeled '3'. At the bottom, there are 'Next' and 'Cancel' buttons.

No.	Channel Name	Channel Address	Port
1	IP CAMERA	10.8.10.182	80

Click Connect Device



Click Select All

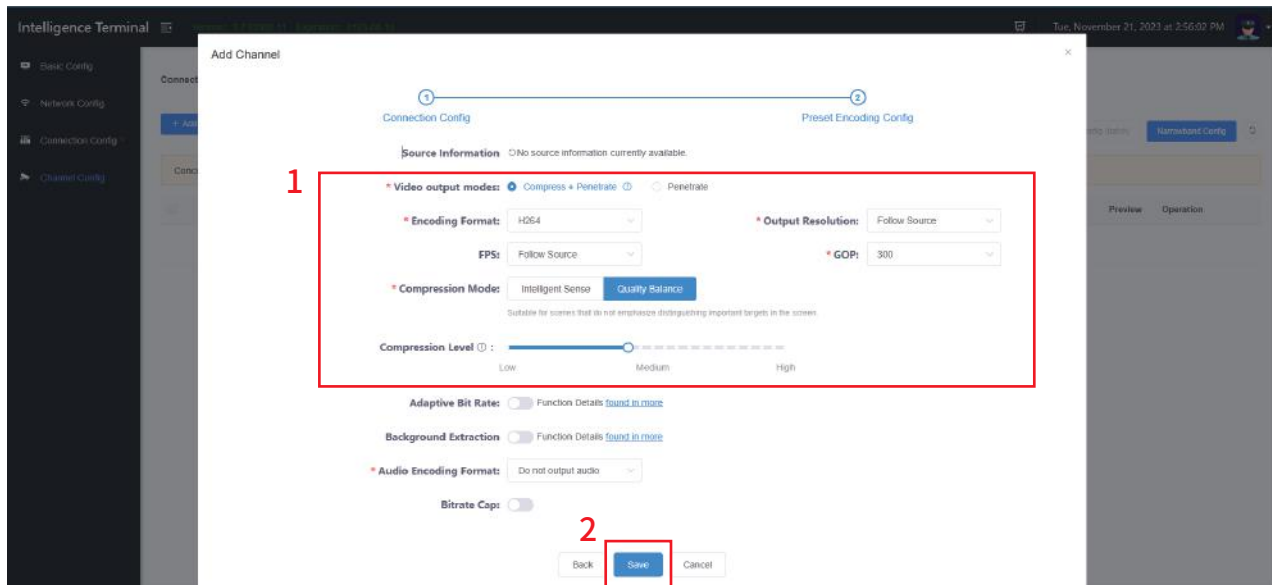


Modify Custom Name

IP Camera Setting

Step 5 Select Compression Parameters

- Support 360P (640*360), D1 (704*576), QHD (960*540), 720P (1280*720), 1080P (1920*1080), 2K (2560*1440), 4K (3840*2160) and other resolutions
- Different compression mode Intelligent Sense/Quality Balance
- Flexible compression Level



IP Camera Setting

Step 6 Enable IP Camera

The screenshot shows the 'Intelligence Terminal' web interface for configuring IP cameras. A modal dialog box titled 'Channel operation strategy:' is open, showing the following options:

- Operational Strategy: On demand operation, Force
- Forced Action: Force Running, Force Disable

Red boxes and arrows highlight the following elements:

- 1**: The 'Operation' column header in the table below.
- 2**: The 'Force' radio button under 'Operational Strategy'.
- 3**: The 'Force Running' radio button under 'Forced Action'.
- 4**: The 'OK' button in the dialog box.

The background interface includes a sidebar with 'Channel Config' selected, a table of channels, and a 'Channel Config' form. The table has the following data:

ID	Name	Connective Method	Resolution	Output Type	Preset Encoding Config	Real-time Encoding Config	Status	Preview	Operation
10063	HKRF_182	Hikvision Private Protocol, 10.8.10.162	1920x1080	Video	Quality Balance		Ready		

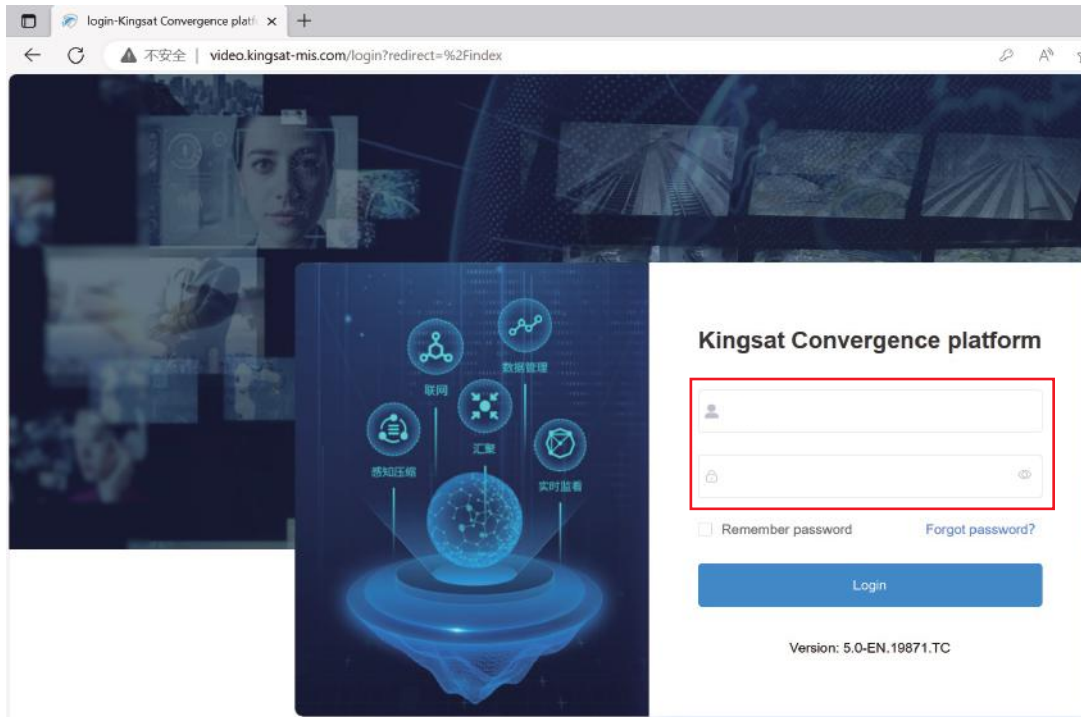
IP Camera Setting

Step 7 Preview IP Camera Status

The screenshot displays the 'Intelligence Terminal' web interface. On the left, a sidebar contains navigation options: Basic Config, Network Config, Connection Config, and Channel Config. The main area is divided into a configuration panel on the left and a video preview window on the right. The configuration panel shows 'Connection Method' set to 'Default', 'Add Channel' and 'Input' buttons, and a table for 'Concurrent Running Channel: 1 / 4'. The table has columns for ID, Name, and Connection Method, with one entry: ID 10064, Name HKZF_186, and Connection Method Hikvision Private. The video preview window shows a live feed of a warehouse with a timestamp '2023年11月21日 星期二 15:21:06' and a camera ID 'HKZF_186'. Below the video are controls for 'Realtime', 'History', 'Original Video', 'Compress Video', and 'Compression Comparison'. On the right side of the interface, there is a 'Preview' column in a table with a red box around the 'Preview' icon, and a 'Total 1' / '43page' pagination control.

Server Setting

Step 1 Login to Cloud Server



Cloud Server IP: video.kingsat-mis.com

For account and password , please contact KINGSAT team.

Server Setting

Step 2 Add Encoder to Cloud Server

The image displays two screenshots of the Kingsat Convergence platform interface. The top screenshot shows the 'Application management' section with four main cards: 'Real time preview' (highlighted with a red box), 'Video playback', 'Event center', and 'View center'. Below this is the 'Connection configuration' section with an 'Equipment list' card. The bottom screenshot shows the 'Equipment list' page in detail. The left sidebar has 'Equipment list' selected (marked with a red box and '1'). The main content area has a search bar and a '+ Add' button (marked with a red box and '2'). Below the '+ Add' button are buttons for 'Edit', 'Delete', 'Upgrade', 'Forensic configuration', 'Authentic', and 'Modify Password'. At the bottom, there is a table header with columns: Name, Status, Versions, Region, and De Operation.

Server Setting

Step 2 Add Encoder to Cloud Server

Add Device

group: Domestic 1

* Device type: Intelligent front-end 2

* Link mode: Arlink 3

* Version Selection: Old version (F1/F2/F3) New version (F5) 4

BOX Info:

<input checked="" type="checkbox"/> 5	serial number	Name	Device Model	Device ID	IP	Registration Time
<input checked="" type="checkbox"/>	1	microwave	Arcvideo IMEC 15 01-F3	ARCBOX_AECNV23130051	58.61.251.76	2023-09-17 16:31:30

Select the corresponding Device ID on the encoder to add

6 OK Cancel

Server Setting

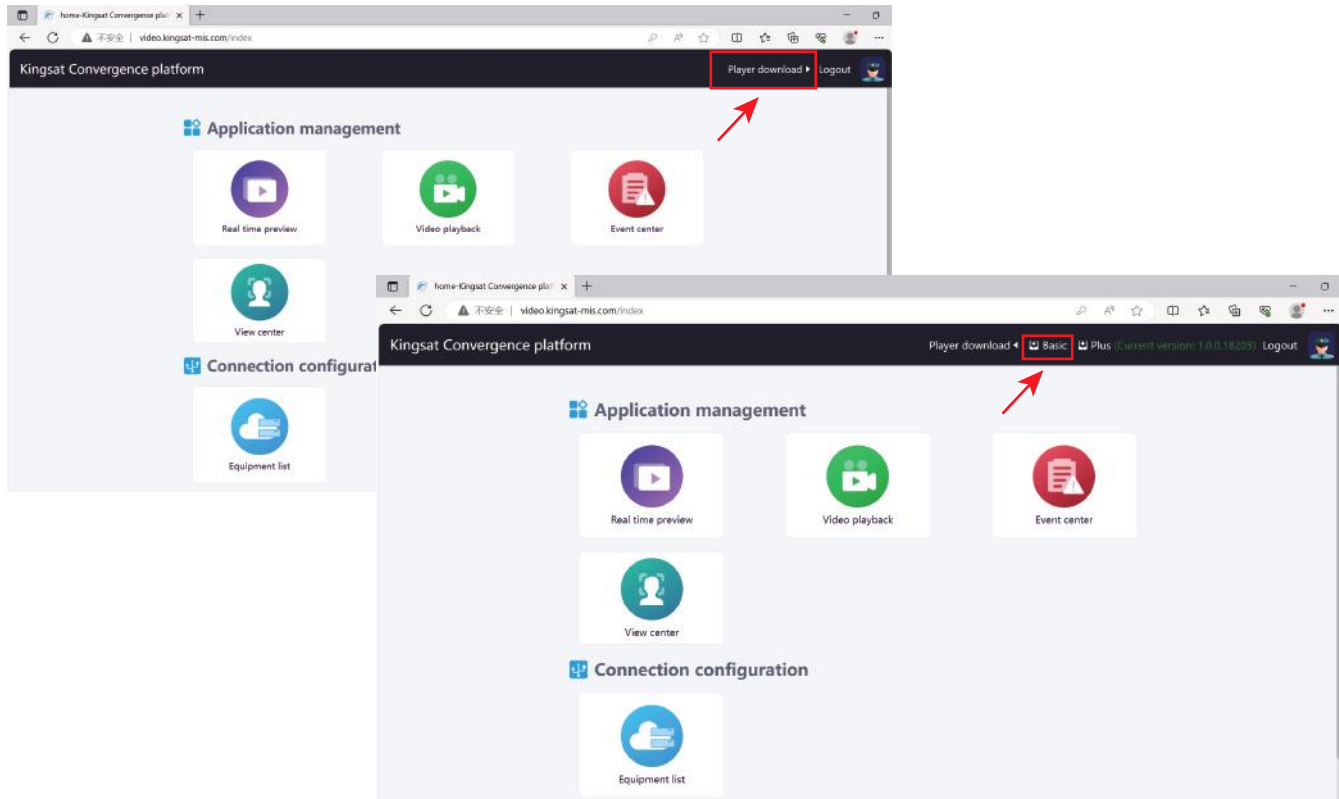
Step 2 Add Encoder to Cloud Server

The screenshot shows the 'Equipment list' page in the Kingsat Convergence platform. The interface includes a search bar, filter tabs (Home, Equipment list, Real time preview), and a sidebar with navigation options (all, Global, Domestic). The main area contains form fields for Name, IP, Device type, Access protocol, Device number, and Status. Below these are 'Versions' and 'Search' buttons. A row of action buttons includes '+ Add', 'Edit', 'Delete', 'Upgrade', 'Forensic configuration', 'Authorize', and 'Modify Password'. A table displays the equipment list with columns: Name, Status, Versions, Region, Device type, Access, and Operation. The first row is highlighted with a red box and contains the following data: Name: KINGSAT, Status: online, Versions: 3.7.62592.11, Region: TEST_TEAM, Device type: Intelligent fro... The 'online' status is also pointed to by a red arrow. The table footer shows 'Total 11' items, '10/page', and pagination controls.

Name	Status	Versions	Region	Device type	Access	Operation
KINGSAT	online	3.7.62592.11	TEST_TEAM	Intelligent fro...		Ar Channel List Edit Delete More

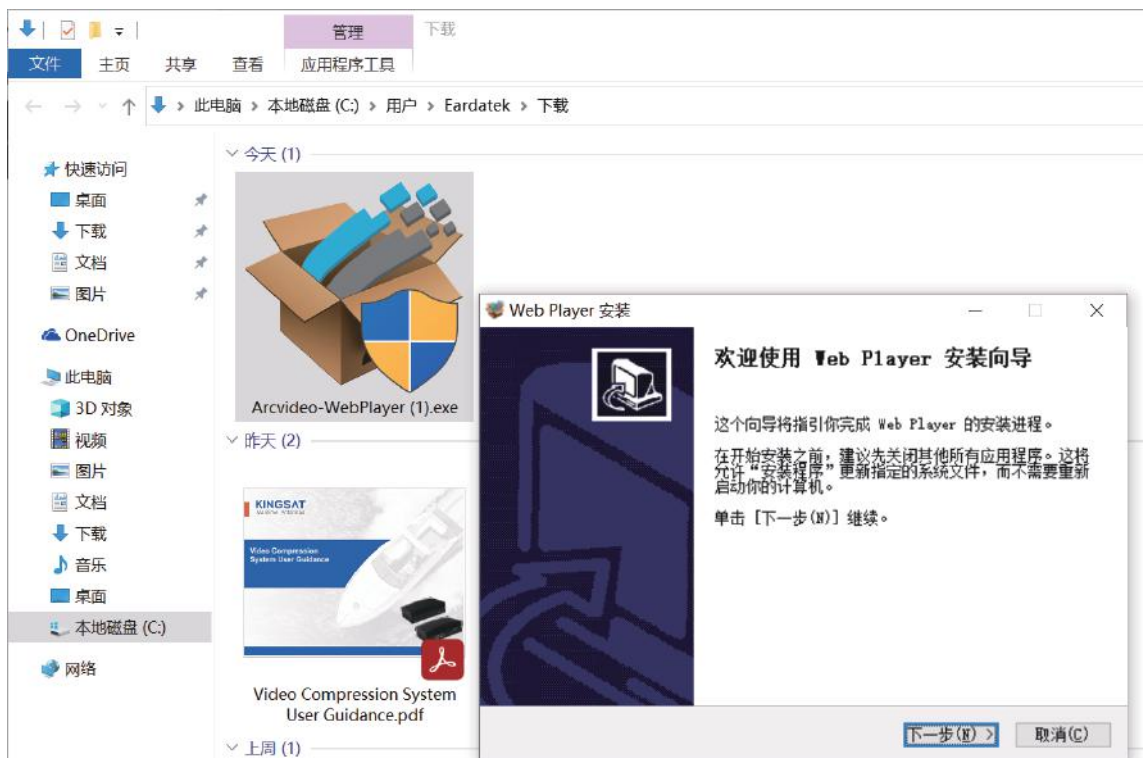
Server Setting

Step 3 Download Player Firmware



Server Setting

Step 4 Finish Installing Player Firmware



Server Setting

Step 5 Video Browsing

The image displays two browser windows from the Kingsat Convergence platform. The top window shows the 'Application management' page with a red box highlighting the 'Real time preview' icon. The bottom window shows the 'Real time preview-Kingsat Cam...' page, which features a video browser interface. On the left side of this interface, a red box highlights the 'Connection configurat' icon in the sidebar and a list of video streams. The main area of the browser shows a 2x2 grid of live video feeds from various camera locations within a facility, including areas with satellite dishes and equipment.

Application management

- Real time preview
- View center

Connection configurat

- Equipment list

Real time preview-Kingsat Cam...

Kingsat Convergence platform

Home | Equipment list

Monitoring Carousel Video

View

- 4窗口
- 演示

Resources

Please enter a tag

- Global (2/24)
- Domestic (8/10)
- KINGSAT (7/9)
- TEST_TEAM (7/7)
- KINGSAT (7/7)
 - Y5R_195_VIDEO
 - HK6F_182_VIDEO
 - HK6F_197_VIDEO
 - HK6F_196_VIDEO
 - CH_195_VIDEO
 - CL_195_VIDEO
 - HK_3E_186_VIDEO
- Brooko-Box (0/2)
- microwave (1/1)

PTZ: Preset Capture
Camera point Path

Appendix

Specification-Video Compression Box(External Box)



Processor: ARM	Video Resolution: 1080P、2K、4K, etc
Memory: 4GB / 8GB	Video Parsing Format: H.264、 H.265, etc
Storage: 32GB / 64G EMMC, Maximum SD card support 128GB	Video Access Format: RTSP、 GB28181、 Onvif
Network: RJ45 * 2, Suitable for all telecom operator	Interface: HDMI * 1, USB 3.0 *1 / USB 2.0 *1
Video Performance: Supports up to 16 channels of 1080P video compression +8 channels of AI running simultaneously	
Algorithm: Face, area intrusion detection, fireworks identification alarm, etc	
Operating System: Linux	Size: 190mm×114mm×65mm
Power Supply: DC 12V/5A	Storage Temperature: -20°C~85°C
Operating Temperature: -20°C~60°C	Operating Humidity: 5%~85% non-condensing

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