

**M0330**

**Edition 10.1**

**Issued on December 2011**

# **IP Camera User Manual**

**For**

**INC-M Series**

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## Introduction

ILDVR INC-M series megapixel IP camera integrates the traditional camera and network video technology. It adopts video and audio data collection, compression, transmission and storage together. It can be used alone with SD card record or used in a network environment. It can connect to network directly without any auxiliary device.

ILDVR IP cameras use H.264 video compression technology and G.711 audio compression technology, which maximally guarantee the audio and video quality.

### Key features:

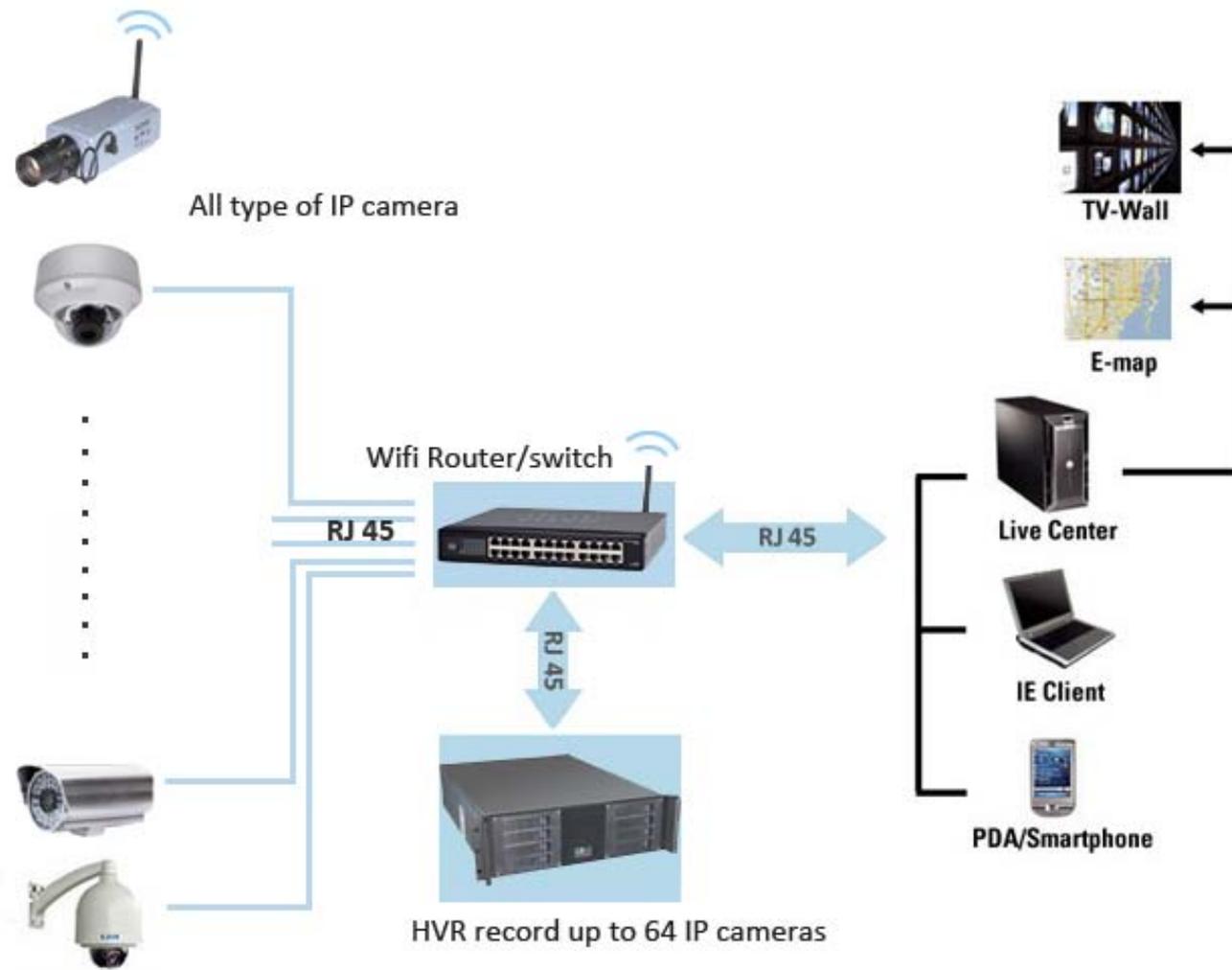
- Advanced H.264 compression with high compression ratio. Support both variable bit rate and variable frame rate.
- Real time stream full frame 1080P video 25fps@PAL/30fps@NTSC.
- Compressed video and audio are synchronous. You can select either mixed stream or only video stream.
- Support SD card local record, up to 64GB.
- Alarm Function includes sensor alarm, Motion Detection, video tampering, network offline, IP address conflict, Storage exception etc.
- Multi-level user management leads to high system safety.
- Support dynamic DNS (DDNS)
- Support Email Alarm Notification
- Remote management, maintenance and upgrade the firmware.
- Support bi-direction voice talk or one-way voice broadcast.
- Built-in web server, support IE browser preview and record.
- Multi-purpose design. Weatherproof , vandal-proof and multiple power supply: DC12V/AC24V/POE (48V)
- Wide range of product lines to meet your varied requirements.

### Default settings

Default IP address is 192.168.1.200, subnet mask 255.255.255.0, gateway 192.168.1.1

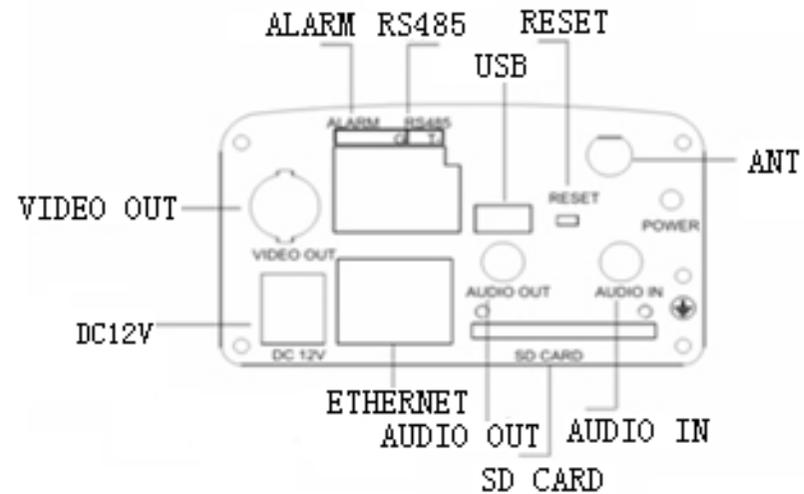
User ID is “admin”, password is “admin”, video port is “5000” and web port is “80”

### Typical network connection diagram:



## 1 Physical Interface Description

### 1.1 Box Camera



Camera interface description for **INC-M2010/M2010P/M2010W**

- DC12V:** Power input, DC12V/1A
- ETHERNET:** Ethernet port
- AUDIO OUT:** Audio Output
- AUDIO IN:** Audio Input
- SD CARD:** SD card slot
- VIDEO OUT:** Video Output
- ALARM:** Alarm input and output, 1A and 1B connect to alarm output, IN connects to alarm input, G connects to signal ground
- RS485:** RS485 Control interface, left side connects to RS485 -, right side connects to RS485 +
- USB:** USB interface
- RESET:** Reset button, restore to factory settings, and please use this button with caution
- ANT:** Wireless antenna interface
- POWER:** Power Indicator Light
- DC AUTO IRIS:** Auto Iris Lens interface, supports DC lens

## 1.2 Bullet Camera



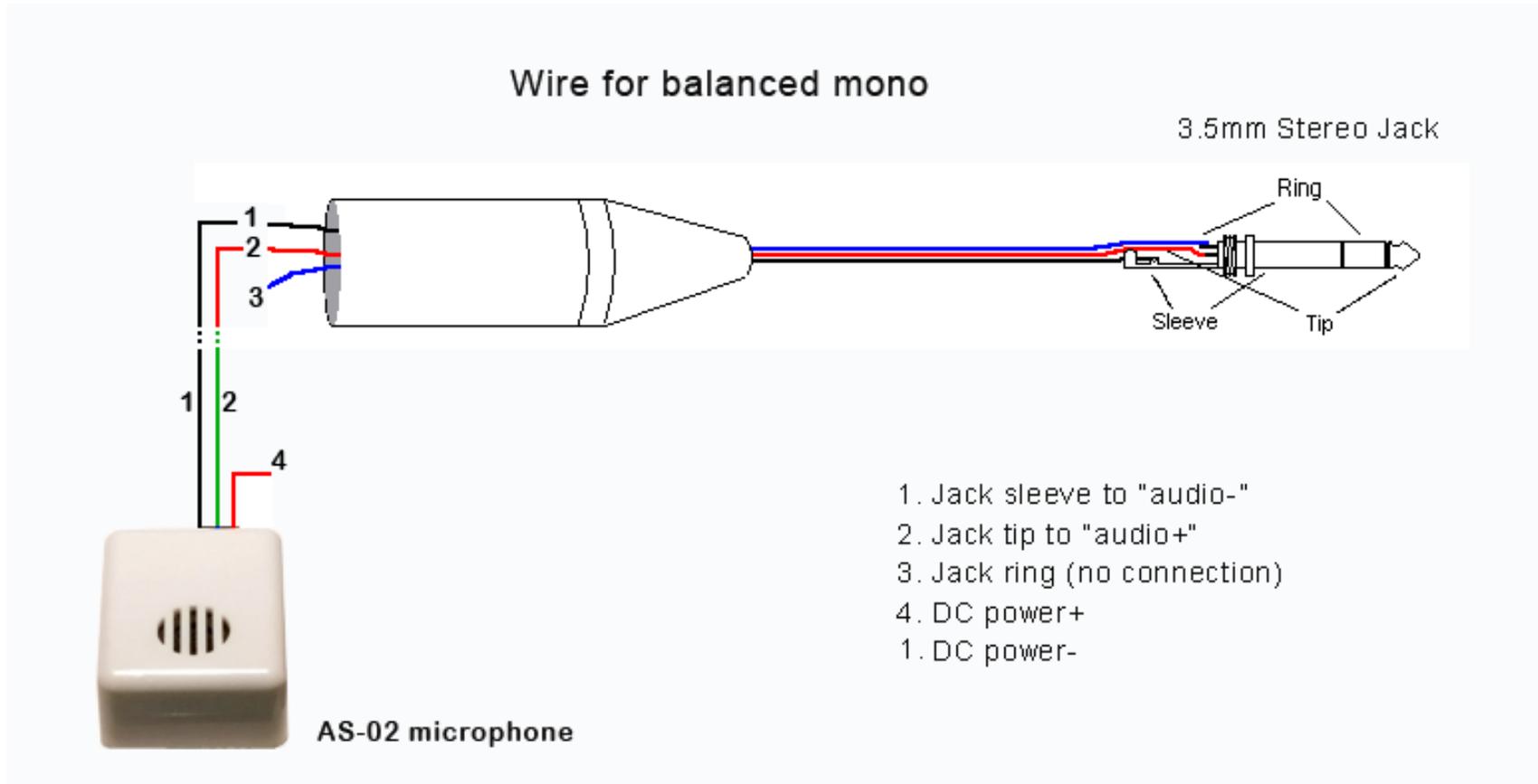
Camera interface description for **INC-M2030/M2030W**

<b>DC 12V:</b>	Power input, DC12V/3A
<b>LAN:</b>	Ethernet port;
<b>Audio in:</b>	Audio Input
<b>Audio out:</b>	Audio Output
<b>RESET:</b> (Yellow)	Reset button, restore to factory settings, please use this button with caution;
<b>ALARM IN:</b> (Red)	on/off alarm input
<b>ALARM OUTA:</b> (Orange)	on/off alarm output A
<b>ALARM OUTB:</b> (Purple)	on/off alarm output B
<b>RS485 +:</b> (Green)	RS485 control interface +
<b>RS485 -:</b> (Blue)	RS485 control interface -

## 2. Hardware Installation

### 2.1 Prepare Audio Connector

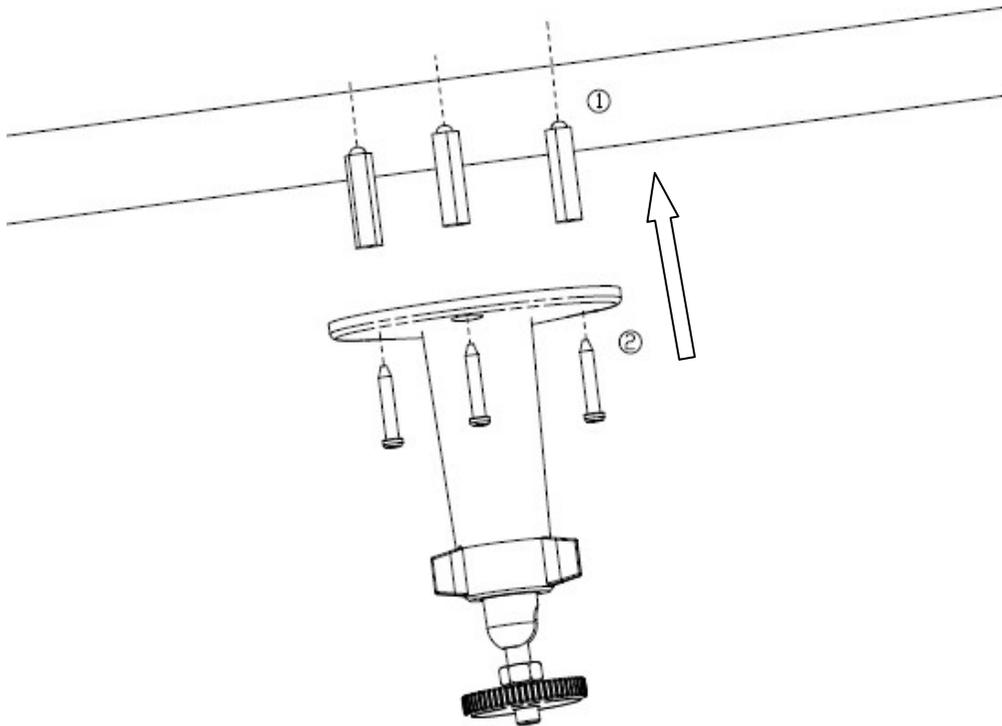
The IP cameras use standard 3.5mm Stereo Jack connector but the audio type is mono audio, please refer to the right picture to make your audio connector.



## 2.2 Box Camera Installation

Box camera can be fixed in both wall and ceiling, customers can choose different ways to install the camera according to their specific needs. The following section introduces the ceiling mounting, and the wall mounting follows the same way

**Step 1:** Fix the mounting bracket to the ceiling.



**Note:**

If it is wall, you need to fix the expand bolt (note: the mounting hole of the expand bolt should align with the bracket) before fixing the bracket, as step 1 in Figure 2.2.1. If the wall surface is wooden, the step 1 in Figure 2.2.1 can be ignored and you can use the self-tapping screw to fix the bracket directly. Please note that the wall on which the camera is fixed should be able to bear at least three times the weight of the bracket and the camera.

Figure 2.2.1 Fix camer mounting bracket

**Step 2:** Screw the camera's mounting holes to the mounting bracket, and then adjust the camera to the desired monitoring location and finally tighten the knob on bracket to secure the camera to the ceiling.

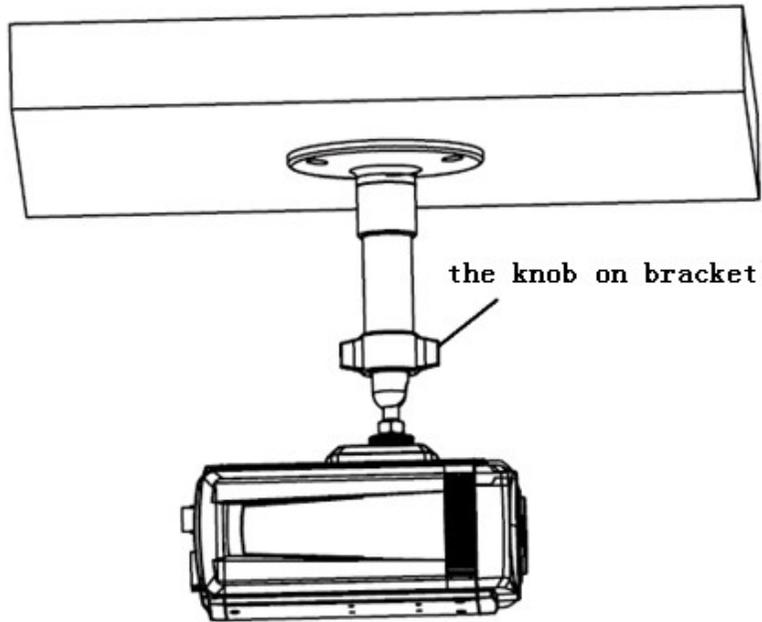


Figure 2.2.2 Fix the Camera

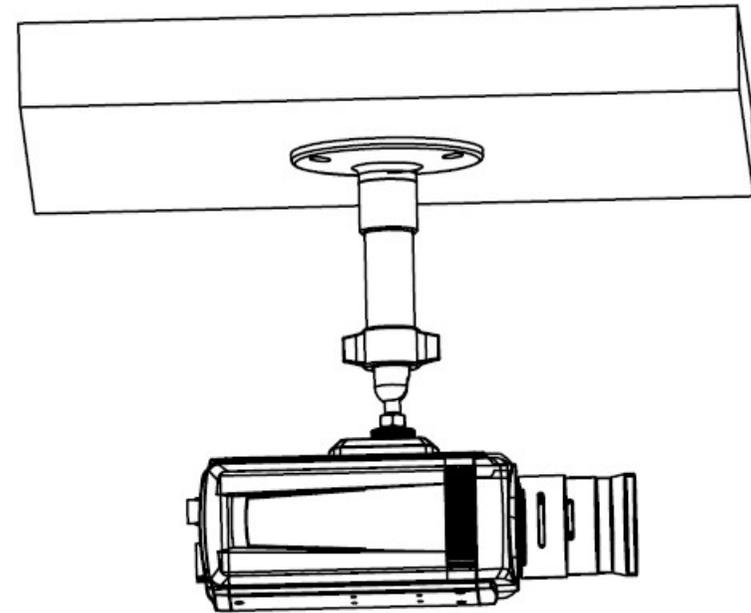


Figure 2.2.3 Mount and adjust Lens

**Step 3:** Mount the camera lens: connect the VIDEO OUT interface of the camera to the debugging monitor, and adjust lens focus until you have obtained the clearest video images on the monitor, and then lock the lens. If required, loosen the knob on the mounting bracket and adjust the camera lens to the desired monitoring scene, and finally tighten the knob on bracket.

### 2.3 Bullet Camera Installation

Please choose heavy-duty metal bracket such as ILDVR B02 bracket for bullet camera installation. You can easy adjust the B02 bracket to adapt varied installation environments. See the picture in next page.



Ceiling pendant point



Wall mount

### **3. Software Installation**

#### **3.1 Search and Modify IP Address**

Before using IP camera, please make sure whether the default IP address of the camera fit your local network environment. If not, please click the “Search INC-M series IP” in HVR Server or Live Center program folder. You can see an interface is shown as below. In this interface, you can view device IP address, port number, subnet mask, MAC address and serial number, etc. Please input admin user name and password to modify IP address and port number. Please connect the IP camera and the PC in same network segment.



All IP cameras must be registered in the software then it could be recorded. If you couldn't record video, please update the license file IPEncrypt.dat for HVR Server and Live Center software. You can find the update license file in software CD or download from ILDVR web site

**3**  
Select INC-M series for Device Type.

**2**

**1**

Server Name	IP Address	Port	Camera NO.	Connect Status	Registered?
INC-TE288	192.168.1.201	8001	8	connect ok	Yes
INC-MP20	192.168.1.204	8004	9	connect ok	Yes
INC-MP13CD	192.168.1.207	8007	10	connect ok	Yes
INC-TE288NI	192.168.1.209	8009	11	connect ok	Yes
OutdoorPTZ	74.0.113.59	8009	12	connect ok	Yes
MP20V	74.0.113.60	8000	13	connect ok	Yes
inc-m2010	192.168.1.210	5000	14	connect ok	Yes
inc-md30	74.0.113.58	37777	15	connect ok	Yes

### 3.3 Camera System Configuration

The following operations need admin user rights to login IP camera. Please refer to above step. Right click IP Camera window to pop up right-click menu. Choose "IPcam\_NetDVR\_Setup" to bring up "IP Camera Setup" interface. In Live Center, entrance is "Remote Setup" then choose Server alias  
In "Server" page, you change IP address, port number and reset the password of admin ID etc. If you install SD card in the camera, please format it in IE web

client page, otherwise it cannot be used. The device serial number is necessary for register license.

Field	Value
Server Name	inc-m2010
Device Name	INC-M2010P
Channel Num	1
Serial Number	1050070
Soft Version	2.3.0.8
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
DNS	192 . 168 . 1 . 1
DDNS IP	0 . 0 . 0 . 0
DDNS Port	30000
IP	192 . 168 . 1 . 210
Data Port	5000
Web Port	80
User	admin
Password	*****
PPPoE IP	0 . 0 . 0 . 0
PPPoE User	
PPPoE Pass	
Center URL	192.168.1.4
Center Port	6000

In “Channel” page you can modify video parameters and OSD information. If you need mask privacy area, please check-on the Privacy then draw a rectangle area on the image. That is the mask area. If you have SD card to record, please check-on “Enable Rec” then setup recording schedule.

ServerChannelPTZMotion

IP Device Setup

Channel NO CH 1

Main Stream  
 Sub Stream

Encode Type h.264

Resolution 1600\*1200

I Frame Interval 25

Frame Rate 25

Channel Name INC-M2010P

Bitrate VBR

Bitrate 4096

Quality Best



Mask  Flip

DC Iris  Mirror

Title  Bit Rate

Date  Week

Time

IE SetupRestartTime AdjustSaveExit

### 3.4 Continuous Record Setup

Continuous Record means always record the video, the operation is simple. You get video connection, get video record. You just enter Camera Setup page→ Group Setup, choose camera group and cameras, click the icon “Continuous Record” then slide the mouse to set time table. The operation in Live Center is similar.

The screenshot shows the 'Group Setup' interface. At the top, there is a dropdown for 'Select Camera Group' set to 'Group01' and another dropdown for 'Record Sub-stream' set to 'Disable'. Below these are two camera selection buttons labeled '1' and '2'. Further down, there are dropdowns for 'Pre-alarm Record' (5 Sec), 'Post-alarm Record' (5 Sec), and 'Stream Type' (Video). A row of six recording mode icons is displayed: 'Continuous Record' (red), 'Motion Record' (blue), 'Alarm in Record' (orange), 'Motion or Alarm in Rec' (green), 'Continuous & Motion Rec' (red/blue), and 'No Record' (grey). Below the icons is a 24-hour time table with columns numbered 0 to 23 and rows for days of the week (SUN, MON, TUE, WED, THU, FRI, SAT). The 'SUN' row is highlighted in red, indicating that continuous recording is active for the entire day.

### 3.5 Motion Detect Alarm Record Setup

Motion Detect Record is a little bit complicated than Continuous Record because HVR system need additional signal to analyze the video stream type. So you must configure 2 places. One place is Motion Record setup in HVR system “Camera Setup” page, similar to Continuous Record setup. Another place is Motion page as below,

#### For your attention

Unlike other series IP camera, INC-M series IP camera don't have “Upload to center” option setting.

Server
Channel
PTZ
Motion

IP Device Setup

Channel NO CH 1

Motion

Sensitivity 4

Alarm Time 10 Second

Clear
All



**Trigger Alarm Output**

Out 1

Out 2

Out 3

Out 4

**Trigger Record**

Record 1

Record 2

Record 3

Record 4

	Start Time	End Time
<input checked="" type="checkbox"/> Every Day	00:00	23:59
<input type="checkbox"/> Sunday	00:00	23:59
<input type="checkbox"/> Monday	00:00	23:59
<input type="checkbox"/> Tuesday	00:00	23:59
<input type="checkbox"/> Wednesday	00:00	23:59
<input type="checkbox"/> Thursday	00:00	23:59
<input type="checkbox"/> Friday	00:00	23:59
<input type="checkbox"/> Saturday	00:00	23:59

IE Setup
Restart
Time Adjust
Save
Exit

Don't forget to set time table

### 3.6 Sensor Trigger Alarm Record Setup

Sensor Record is a kind of external alarm-in trigger record. It is more complicated than Motion Record because motion detect signal is embedded in video stream, but sensor alarm signal is a kind of external signal. You must configure 3 places to execute Sensor Record. The first place is Alarm in Record setup in HVR system “Camera Setup” page, similar to Motion Record setup.

The second place is Alarm Check time table in HVR system “Alarm in & Relay out” page as below picture

The screenshot shows the 'Group Setup' configuration page. At the top, there are dropdown menus for 'Select Group' (Group01), 'NC/NO Type' (N/C), and 'Alarm Write to Log' (Disable). Below these are radio buttons for 'Post-alarm Link Status' (Stop, Stay, Delay) and a '10 sec.' delay field. There are also fields for 'Select Alarm-in Port', 'Alarm Link Camera', and 'Alarm Link Relay out Port'. A legend shows 'Alarm Check' (red square) and 'No Check' (blue square). 'Email Alarm' is set to 'Disable' and 'SMS Alarm' is partially visible. A calendar grid shows days of the week (SUN to SAT) and hours (0 to 24). A green callout bubble points to the grid with the text: 'Here is the time table to check receiving alarm signal'.

The third place is Sensor Setting page in IE web client as below.

**For your attention:**

Unlike other series IP camera, INC-M series IP camera don't have “Upload to center” option setting.

# ILDVR<sup>®</sup>

- Local config
- Remote config
- Audio
- Video Settings
- Network Settings
- Storage Settings
- Alarm Settings
  - Motion detection
  - Sensor Setting
  - Failure Setting
- COM Setting
- System

## Sensor Detection Setting

**Sensor Detection**

Enable detect    Sensor type NC \*

---

**Deployment Time**

Time 1                      Time 2

0 : 0 -- 23 : 59     0 : 0 -- 23 : 59

---

Alarm Output     Alarm output duration 10 S    E-mail

Event	Channels	Snap	spacing / time	File save mode	
Snap	<input type="checkbox"/>	<span style="border: 1px solid #ccc; padding: 2px;">1</span>	* <span style="border: 1px solid #ccc; padding: 2px;">1</span> S	<input type="checkbox"/> E-mail	<input type="checkbox"/> Ftp
Record	<input checked="" type="checkbox"/>		<span style="border: 1px solid #ccc; padding: 2px;">60</span> S	<input type="checkbox"/> E-mail	<input type="checkbox"/> Ftp

1. Enable alarm detect and choose4 sensor type

2. Here is the time table

3. Here is the time table to upload alarm signal

- \* Snap time for a float number, such as: 0.5 seconds, 1.5 seconds, and so on.
- \* When device has storage (hard disk, SD card, USB disk), linkage Snap, linkage Record document will be saved to storage first and do related process based on file storage. Or it will be saved to memory for the moment and do related process based on file storage.

### 3.7 PTZ Operation

You can mount INC-M camera on external PTZ driver by RS485 connection to make it working as an IP Speed Dome. Please setup preset position, auto-spot plan and preset tour in this page. No like analog PTZ which saves preset in camera system, the IP PTZ saves preset in local computer, so if you use another PC to control same IP PTZ, you should do same setting again in that PC. Comparing analog PTZ and IP PTZ, the setup procedure is very different, but the operations of call preset are exactly same.

The screenshot shows the 'IP Device Setup' window with the 'PTZ' tab selected. The interface includes a live video feed of a living room, a control panel with direction and zoom/focus/iris buttons, and a 'Preset Setup' dialog box. The dialog box has fields for 'Name', 'Presets', 'Add', 'Del', 'Call', 'Call Type', a table for 'Preset Name' and 'NO.', 'No PTZ Action', 'Home Position', and buttons for 'Preset', 'Schedule', and 'Tour'. Callouts provide instructions: 1. Press direction buttons to move the camera. 2. Choose a preset number. 3. Give a name to the position. 4. Click 'Add' to save the preset. 5. Set the home position for auto return.

**1.** Press direction button and zoom/focus/iris to move the camera to aim position

**2.** Choose preset number

**3.** Give a name to the position (name preset number)

**4.** Click Add button to save preset

**5.** Set home position for auto going back after setting time

### Auto Plan:

Auto Plan means HVR software automatically call the preset position by a scheduled time table. When the system time reach, the IP speed dome will auto move to preset position. You can save up to 64 moments and one preset could be used multiple times.

### Tour Group:

Tour Group means you can put different preset position in a sequential group, each preset position could be defined a staying time (stay there without moving). When you execute a Tour, the IP camera will continuously move according to the sequence and time table saved in the group. You can save up to 8 groups.

In main interface of HVR Server or Live Center, click “Preset Operation” button to bring up preset menu then choose call preset or tour preset.

The image displays the HVR software interface for configuring camera presets and tours. It is divided into three main sections:

- Auto Plan:** A window for scheduling automatic calls to preset positions. It includes fields for Preset (5), Call Time (Friday, 10:00 AM), and Copy To (Monday). Below these is a table showing the schedule:

Date	Time	Preset
Monday	08:15	1
Tuesday	08:15	2
Wednesday	09:30	3
Thursday	09:00	4
Friday	08:00	2
Friday	10:00	5

- Tour Setup:** A window for creating a sequence of preset calls. It shows Tour Group (TourGroup1), Preset Name (street), and Stay Time (8 Sec). Below is a table of the tour sequence:

Preset Name	NO.	Time
park1	1	3
park2	2	5
Entrance	4	6
park3	3	4
street	5	8

- PTZ Control Panel:** A vertical toolbar on the right side of the interface. It includes buttons for Tools, Color, PTZ, Alarm, Connection, and PTZ Moving Speed. A context menu is open over the PTZ button, showing options for Preset Setup, Preset Call, and Preset Tour. A speech bubble points to the PTZ button with the text "Click here".

### 3.8 Display on TV-wall

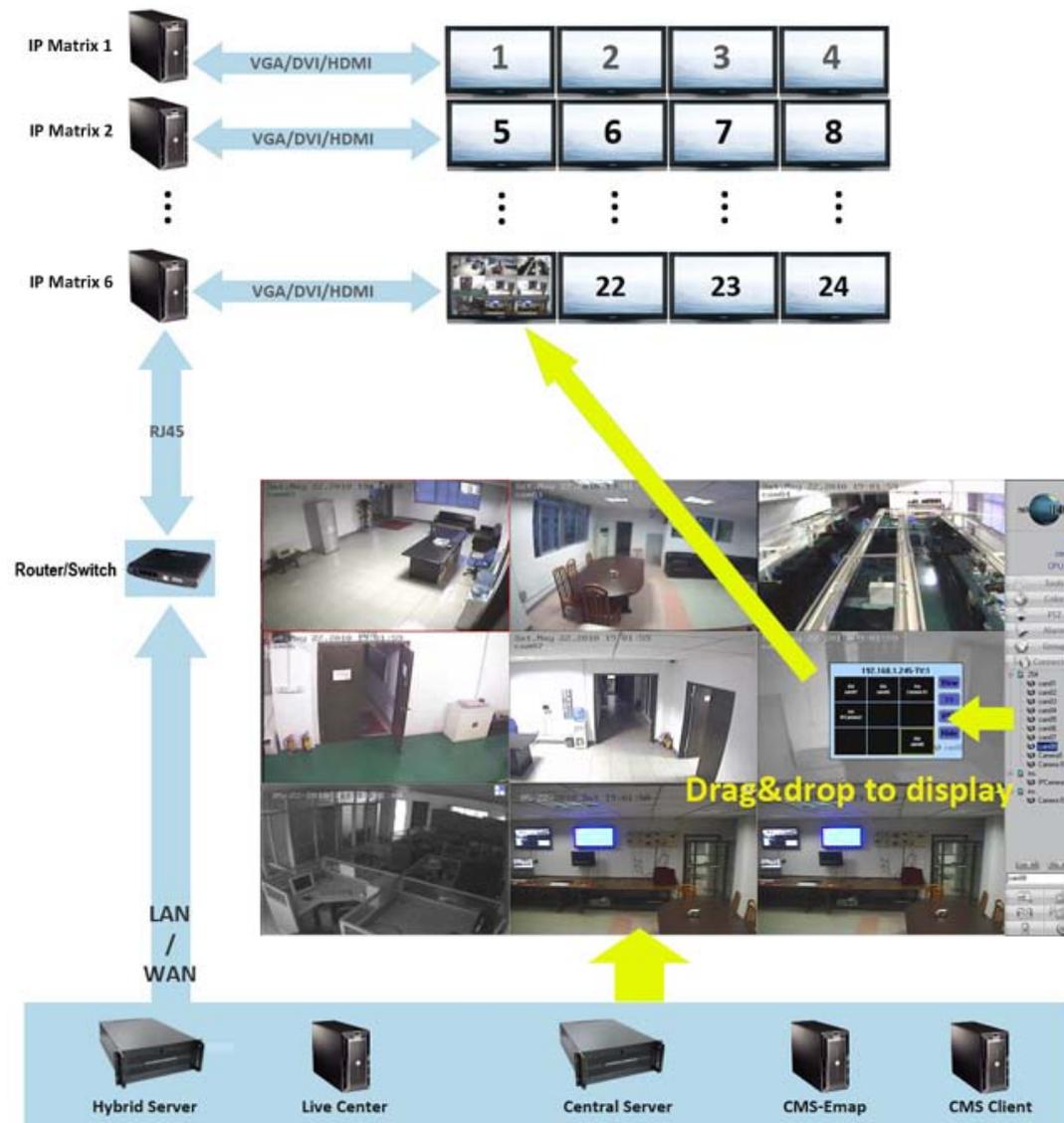
For large surveillance system the TV-wall is important and necessary. IP camera cannot be integrated into traditional matrix system. ILDVR free software IP Matrix offers innovative TV-wall solution.

All ILDVR software support IP matrix operation, one computer running HVR Server / Live Center / CMS supports up to 6 IP Matrix TV-client.

One computer running IP Matrix software supports 4 monitor outputs, each monitor can display up to 16 windows (cameras). That means one IP Matrix can display max. 64 cameras simultaneously

In IP matrix, each video window can be put multiple cameras by switch viewing.

IP Matrix TV-wall Architecture



## 4. Advanced Operations

### 4.1 SD Card Local Record Setup

If you install SD card into IP camera to record video locally, you must login by IE to finish setup. Please follow these operation steps in next page.

The screenshot displays the 'Device setting' page in a web interface. On the left is a navigation menu with 'Local config' and 'Remote config' sections. Under 'Local config', 'Storage Settings' is expanded to show 'Device Setting', 'Record Setting', and 'Snap Setting'. The main content area is titled 'Device setting' and contains three sections:

- Storage device Info:** A table with columns 'ChooseNo.', 'TotalSize(M)', 'FreeSize(M)', and 'State'. Below the table are 'Format' and 'Refresh' buttons.
- Storage device record parameters:** Includes a 'Code stream' dropdown set to 'Preferred Sti', 'Record file packet time' set to '1 M', and 'Record Save' set to '0 Day'.
- Other parameters:** Two checked checkboxes: 'Overwrite old files when disk is full' and 'Auto search the storage device when start'.

A 'Save' button is located at the bottom of the main content area.

- a. Format SD card in “Device Setting” page.
- b. Set record schedule in “Record Setting” page.
- c. If you want motion record, please go to “Motion Detection” page to setup schedule
- d. If you install external sensor, please go to “Sensor Setting” page to setup schedule.

IP Camera

# ILDVR<sup>®</sup>

- Local config
- Remote config
- Audio
- Video Settings
- Network Settings
- Storage Settings
  - Device Setting
  - Record Setting
  - Snap Setting
- Alarm Settings
- COM Setting
- System

## Record setting

**Record schedule**

Time 1                      Time 2

0 : 0 -- 23 : 59     0 : 0 -- 23 : 59

**File save mode**

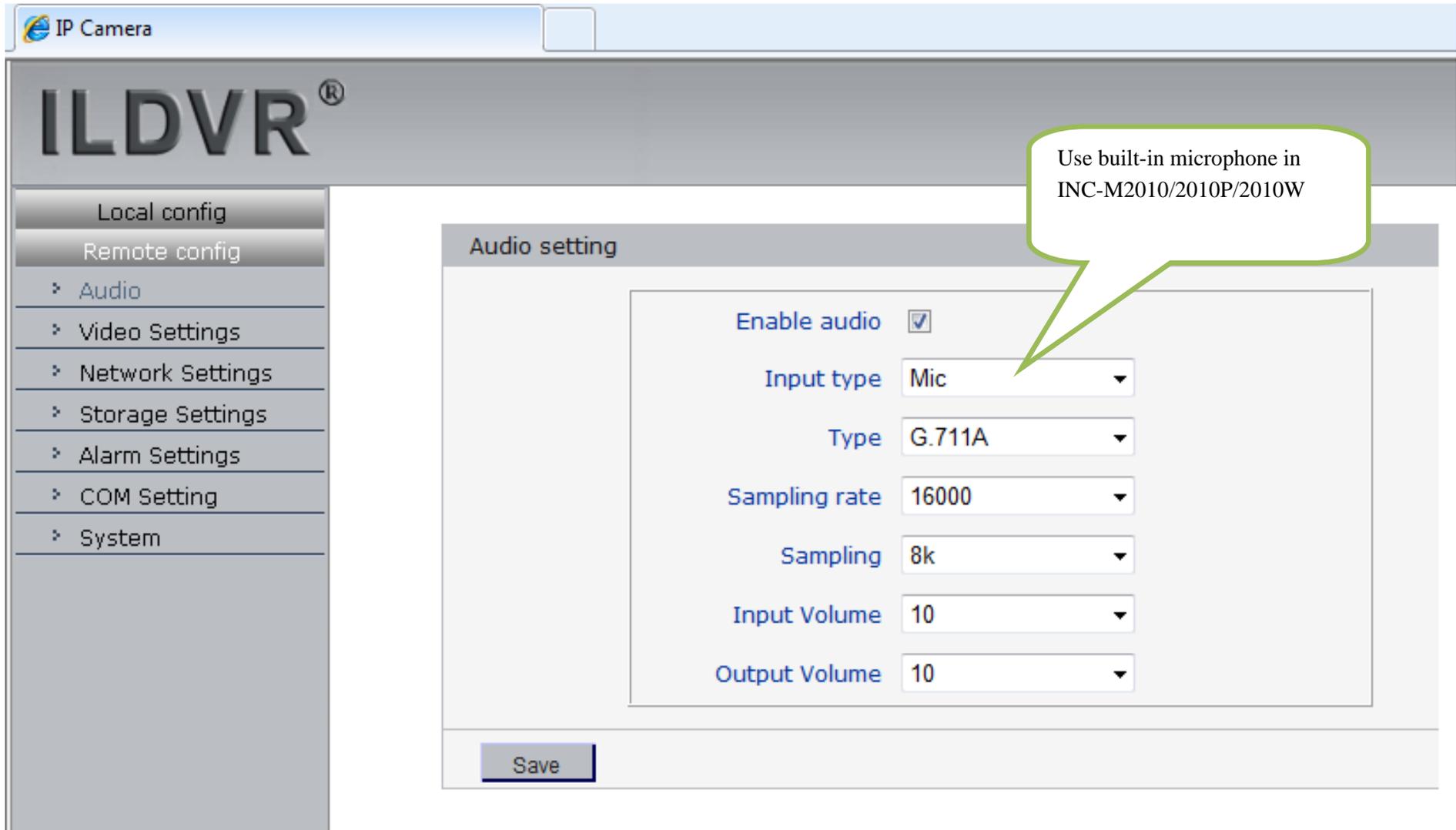
E-mail     Ftp

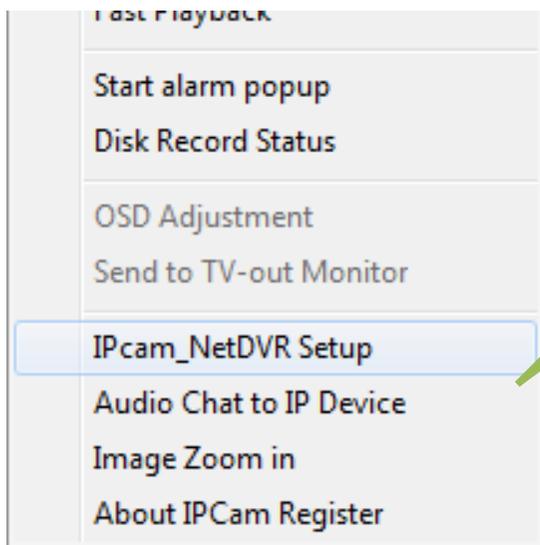
**Save**

\* When device has storage (hard disk, SD card, USB disk), schedule Record will be saved to the storage first and do related process based on file storage. Or it will be saved to memory for the moment and do related process based on file storage.

## 4.2 Audio Chat to IP Camera

From right-click menu choose “Audio Chat to IP Device” to initialize a remote talk between PC to IP camera. This feature needs microphone (audio pickup) and speaker (earphone) to support in both ends. If no audio device can be detected, the “End Talk” dialog might pop up but you can have audio.



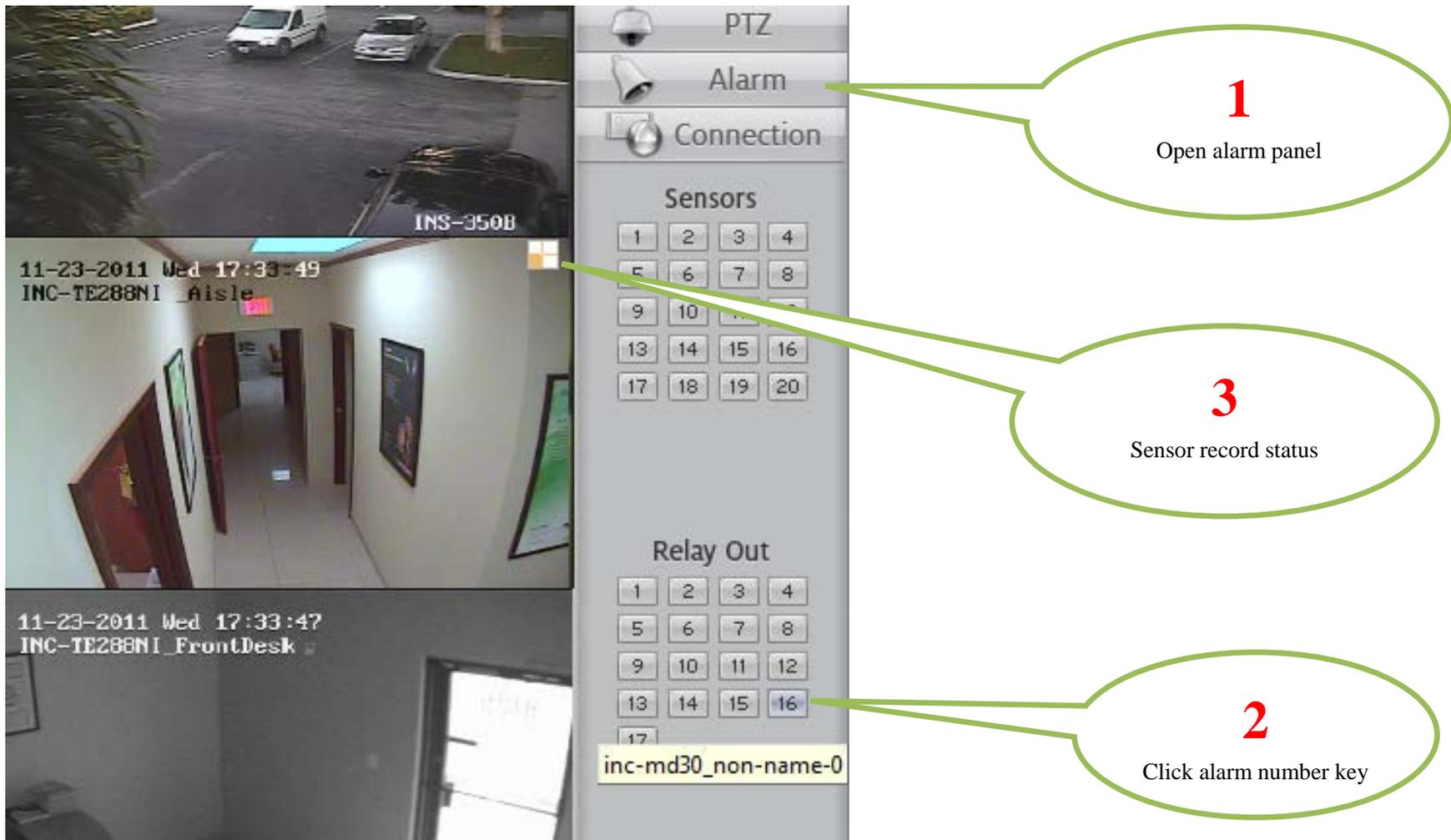


#### 4.3 Mobile Phone Access Viewing

After you connect IP Camera to HVR Server, you can use your mobile phone to login HVR Server to view the real time image. HVR Server support most mainstream mobile phone in the market. The operation system includes iPhone, Android, Blackberry, Windows Mobile and Symbian. For Blackberry, Windows Mobile and Symbian mobile phone, user can directly login to HVR Server to download client software and install. For iPhone, Android mobile phone user should go to online app store to download client software. Please refer to HVR user manual for more details

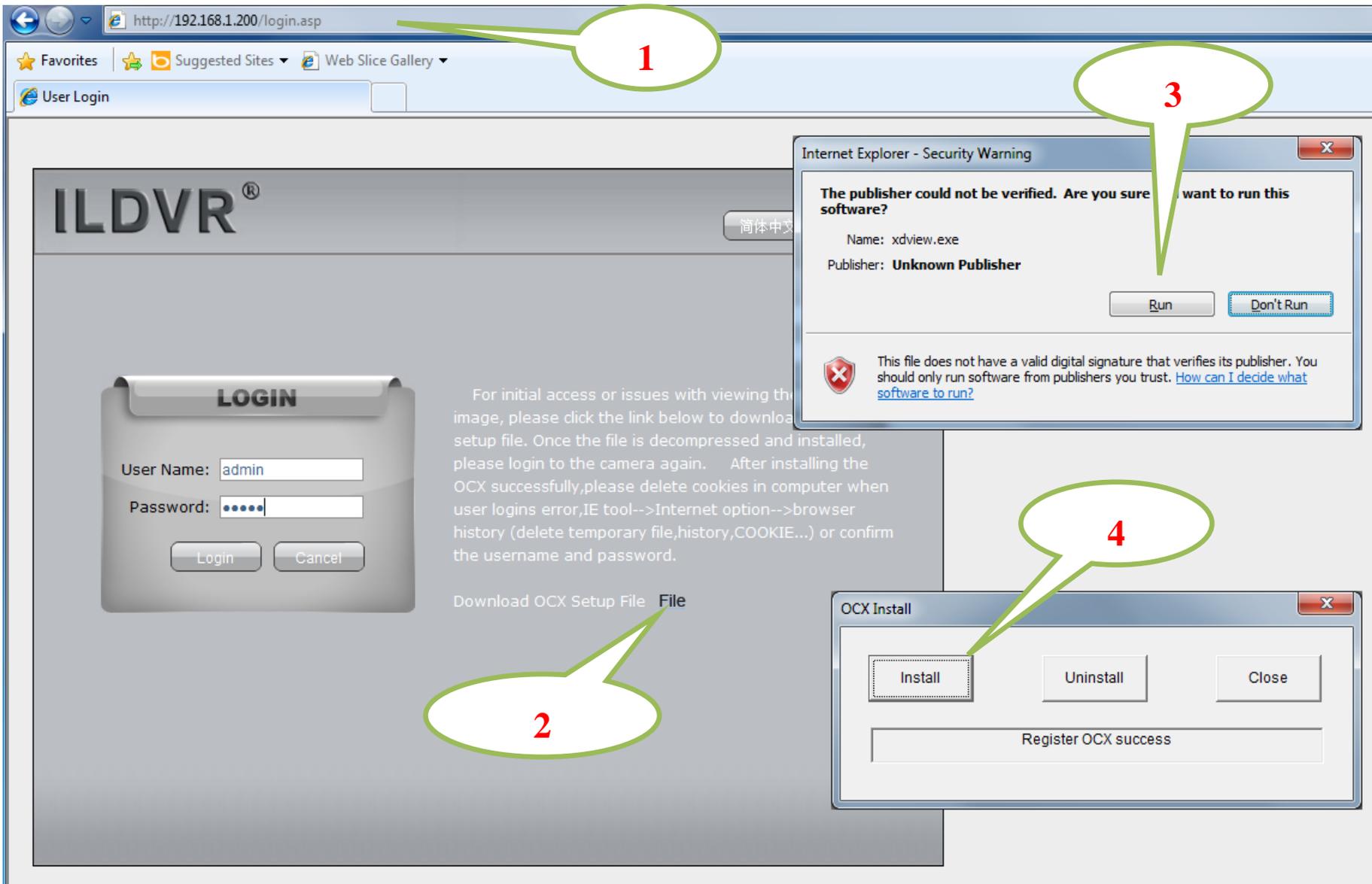
#### 4.4 Manually Trigger Alarm-out

Manual trigger alarm out (relay out) can be widely used to integrate other electrical device such as open a door, turn of light, etc.



#### 4.5 IE Web Client Operation

All IP cameras have built in web server. You can use Internet Explorer directly login to IP camera by input camera's IP address or domain name. At first time connecting to IP camera, you will be prompted to install ActiveX Control (Add-on). Refer to following illustration



Main interface of IE web client



Most of the configuration jobs could be done in ILDVR software interface, but some advanced operation must be finished through IE interface. Such as Sensor Alarm setting, User Management and Restore system to factory default settings. The following picture is a sample configuration page in IE web client.

# ILDVR<sup>®</sup>

Local config

Remote config

Audio

Video Settings

Text Overlay

Video Coding

Video Mask

Video Parameter

Picture Parameter

Network Settings

Storage Settings

Alarm Settings

COM Setting

System

## Video Parameter

### Images Color

Standard  Colorful

- Bri. 69
- Con. 96
- Sat. 22
- Acu. 160
- Red 17
- Blue 136
- Gamma 75

### Other

- Mirror
- Flip
- 60HZ
- 50HZ
- CTB

### Iris

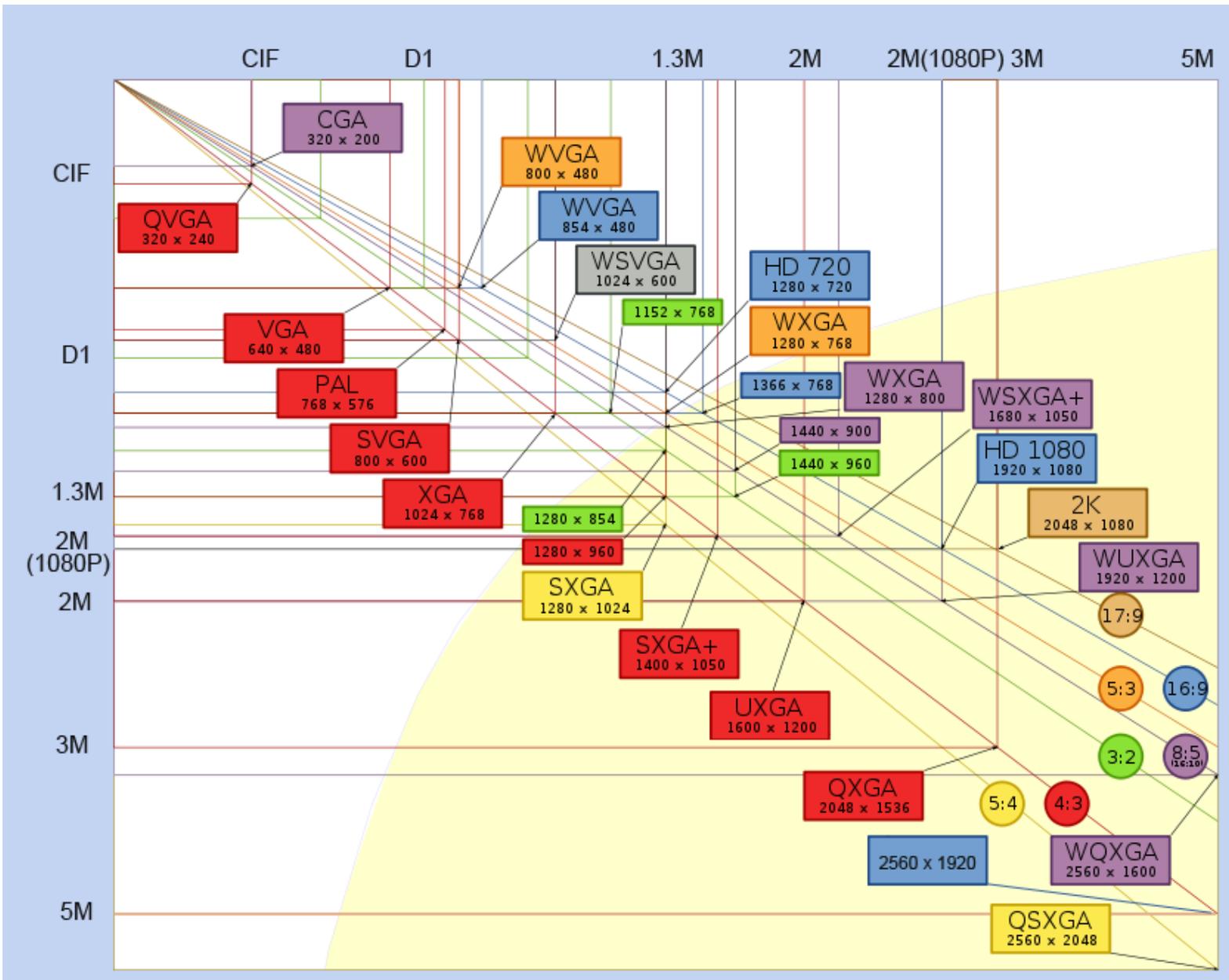
Iris 150

Save



Change video standard  
PAL=50Hz  
NTSC=60Hz

The following illustration shows the terms of different image resolutions.



## Technical Support Information

Please fill in this form in order to get prompt technical service in case of emergency!

<b>Item</b>	<b>Description</b>
<b>IP Device Model Name</b>	
<b>IP Device serial number</b>	
<b>Firmware Version</b>	
<b>Purchasing date</b>	
<b>Dealer's Contact info</b>	<b>Company name:</b> <b>Technical Engineer:</b> <b>Tel:</b> <b>Fax:</b> <b>Email:</b>