LPR IP camera

User manual

The camera adopts 2.1 Mega Pixel 1/2.8” SONY Exmor progressive scan CMOS sensor, featured WDR, low illumination, high definition. Special LPR technology applied: Highlight Compression (HLC) adjustable, multi-section shutter speeds, LED illuminators brightness adjustable, AGC adjustable, digital display setting, automatic snapshot and FTP upload, etc.
Easy setting: no need professionals, no need client software. Manual setting all the function on control board inside camera. Connect NVR or computer, playback video, pause and see license plates clearly.

1. Features:

1. 2.0mega pixel SONY Exmor CMOS sensor, progressive scan, WDR, low illumination, high definition
2. Embedded intelligent algorithms for best viewing license plate day and night.
3. ONVIF protocol, GB28181 protocol, compatible with main NVR manufacturer, Hikvision, Dahua, etc.
4. HLC (highlight compression) function, auto shift from daytime setting mode to night setting mode. Good anti-headlights night effect.
5. WDR adjust
6. 1-3 lanes surveillance.
7. Shutter speed adjustable: 6 traffic modes selectable: 30KM/H, 60KM/H, 90KM/H,120KM/H,150KM/H,180KM/H standard mode
8. Easy setting: no need professionals, no need client software. Manual setting all the function on control board inside camera. Connect N VR or computer, playback video, pause and see license plates clearly.
Varifocal lens: f=6-22mm
1.8 Inch LCD display menu: LED luminance value, HLC intensity, AGC value, current traffic mode...ETC
11. 4 PCS white bright lights.Color image at night. Night vision distance <20 M. Luminance
Add + / decrease-, adjustable no matter in daytime or at night. Auto shift from daytime setting mode to night setting mode.
12. IP66, waterproof. . High quality double shield housing.Heater, FAN Option
13. Support auto snapshot number plates when connection with inductive loops, etc trigger.
Snapshot JPG images store in TF card (max.32G) and/or FTP server. (TF card excluded).
14. double front glasses to avoid light halo and spot when LED is ON.
15.IR illuminator option, black & white image at night.

Applicable in: freeway, city road, country road, entrance/exit of community, school, hospital, industrial park, parking lot or garage, toll gate, etc. Surveillance place

2. Technical Parameter

Model:		NST-IPH6092NPSD
Video	Sensor	1/2.8 " SONY 2.1 Mega pixel Exmor progressive CMOS sensor
	Resolution max.	Full HD/1080P(1920x1080) + Full D1
	Min. illumination	color：0.05 Lux at F1.2 / LED illuminator ON：0.001Lux at F1.2
	WDR	Y
	video codec	H.264 Main Profile @ Level 4.1 / Motion JPEG
	streams	FHD/1080P + Full D1
	Frame rate	25 fps / 30fps
	video stream	H.264& M-JPEG video stream：video out multichannel video at max. Resolution. Frame rate and video steam adjustable,H.264 support VBR/CBR
	16：9 display	support
	ROI	Y
	Lens	f= 6-22 3MP fixed lens
Network	Network port	1 RJ45，10/100M self adaptive Ethernet port， 1 BNC，1 power supply port
	network protocol	IPv4, TCP/IP, UDP, HTTP, DHCP, RTP/RTCP/RTSP, FTP, UPnP, DDNS, NTP, IGMP, ICMP ,etc
	access agreement	WEB, SDK API, ONVIF
Storage	video	PC or NVR
	Snapshot images	TF card and/or FTP upload
General	OS	Microsoft Windows XP/Windows 7/IE：Microsoft Internet Explorer 6.x or above
	Video out	1.0Vp-p,75Ω
	Power supply	DC12V
	Operating temperature	-10℃—50℃
	N.W. (approx.)	2.5KG

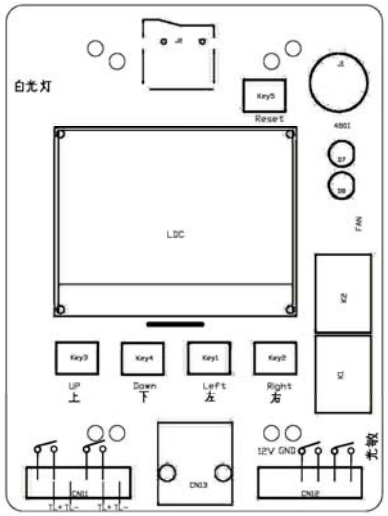
3. Installation and setting

3.1Connect DC12V power supply, if the upper casing is open, the indicator light is on

3.2When the image appears in the monitor, adjust the focus and Iris to get clear image. Surveillance area: max. 5-8 meters wide.

3.3Digital display: current traffic mode and its parameters.

To select various traffic mode by Rocker Switch UP or DOWN. The indicator is ON for the selected traffic mode. Five traffic modes following:



License plate camera parameters control on LCD display (menu) and left and right (parameter setting keys)

3.3.1 License plate camera setting environment mode: Parking mode, Road mode. Factory default: Parking mode.

3.3.2 Support speed: 30km / h, 60km / h ,, 90km / h ,, 120km / h ,, 150km / h ,, 180km / h, the Factory default: 30km / h

3.3.3 HSBLC 4 levels: Auto, Low mode, Mid mode, High mode, The higher mode Factory default: Mid mode

3.3.4WDR 4 levels: Closed, Low mode, Mid mode, High mode, The higher mode Factory default: Auto

3.3.5Environmental Brightness 4 levels: Auto, Low mode, Mid mode, High mode, The higher mode Factory default: Low mode

3.3.6 Light brightness, 13 levels adjustable, users can make adjustments with the actual effect of the plate according to site

3.3.7 The photosensitive start value, the photosensitive start values are 13 adjustable, the value greater, the brightness darker. Factory default: 7 Level

3.3.8 3D Noise Reduction 4 levels: Auto, Low mode, mid mode, High mode, the higher mode Factory default: Auto

3.3.9Language: Chinese, English . Factory default: English

3.4 NVR access protocol：ONVIF, port：8080

4. Login and Function Setting

4.1 Login

Connect PC or NVR via internet for live view or recording when finish setting.
Using main Browsers (e.g.: IE browser)
Default Factory IP Address: 192.168.1.10
Default Factory User Name: admin
Default Factory Password: admin

Step A: (Ref. P4.1-1) “Input IP Address – Fill in user and password – OK”

(P4.1-1)

Step B: (Ref. P4.1-2) Download and install the “ActiveX” plug-in

(P4.1-2)

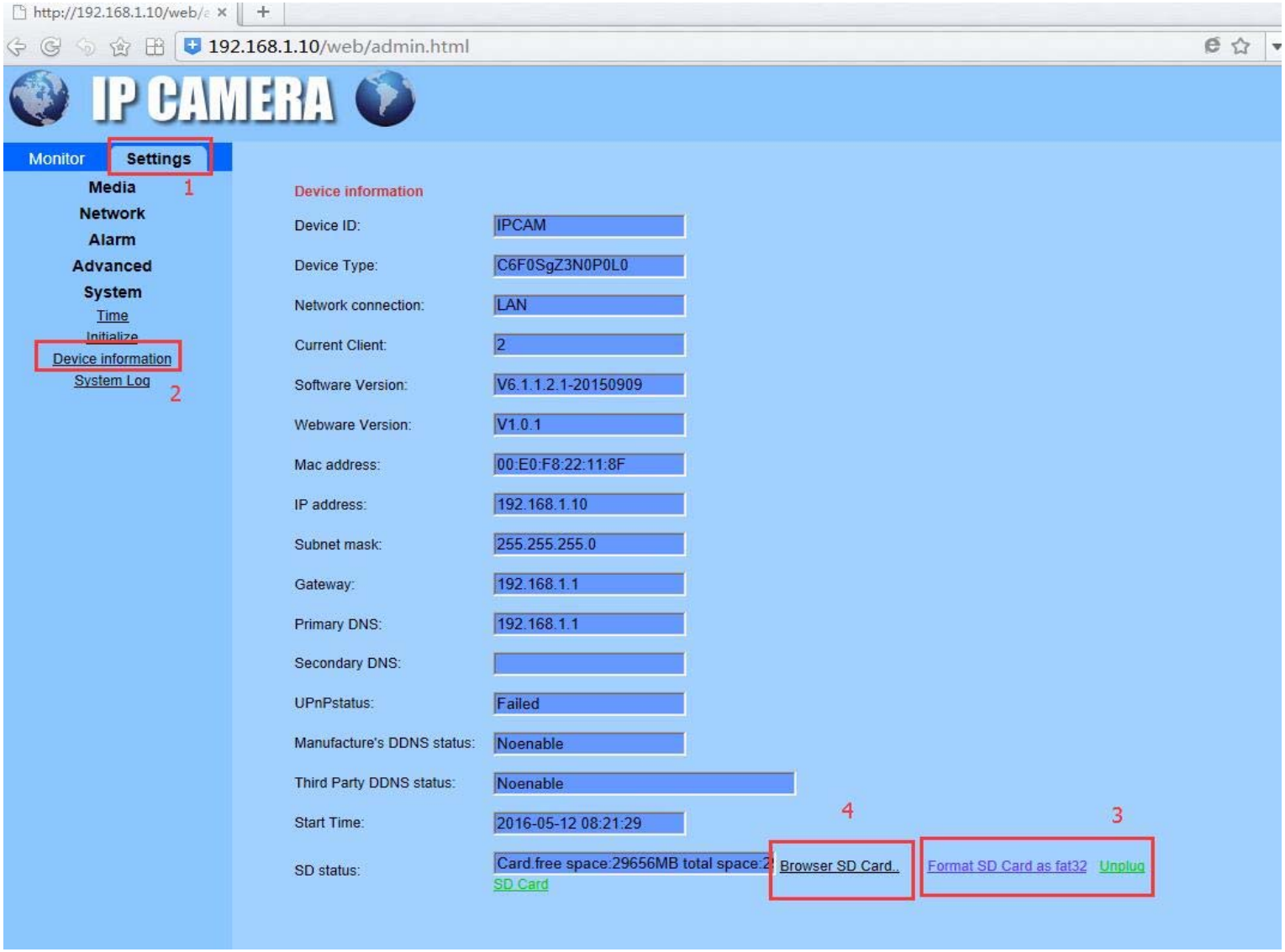
Step C: (Ref P4.1-3) “ English – PC View”

(P4.1-3)

4.2 TF Card Format & Browser

Step: (Ref P4.2-1) “Settings - System – Device Information – Format SD Card as FAT32 – Browser SD Card ”

Tip: This step is very important. SD Card formatted as your first using.



(Ref P4.2-1)

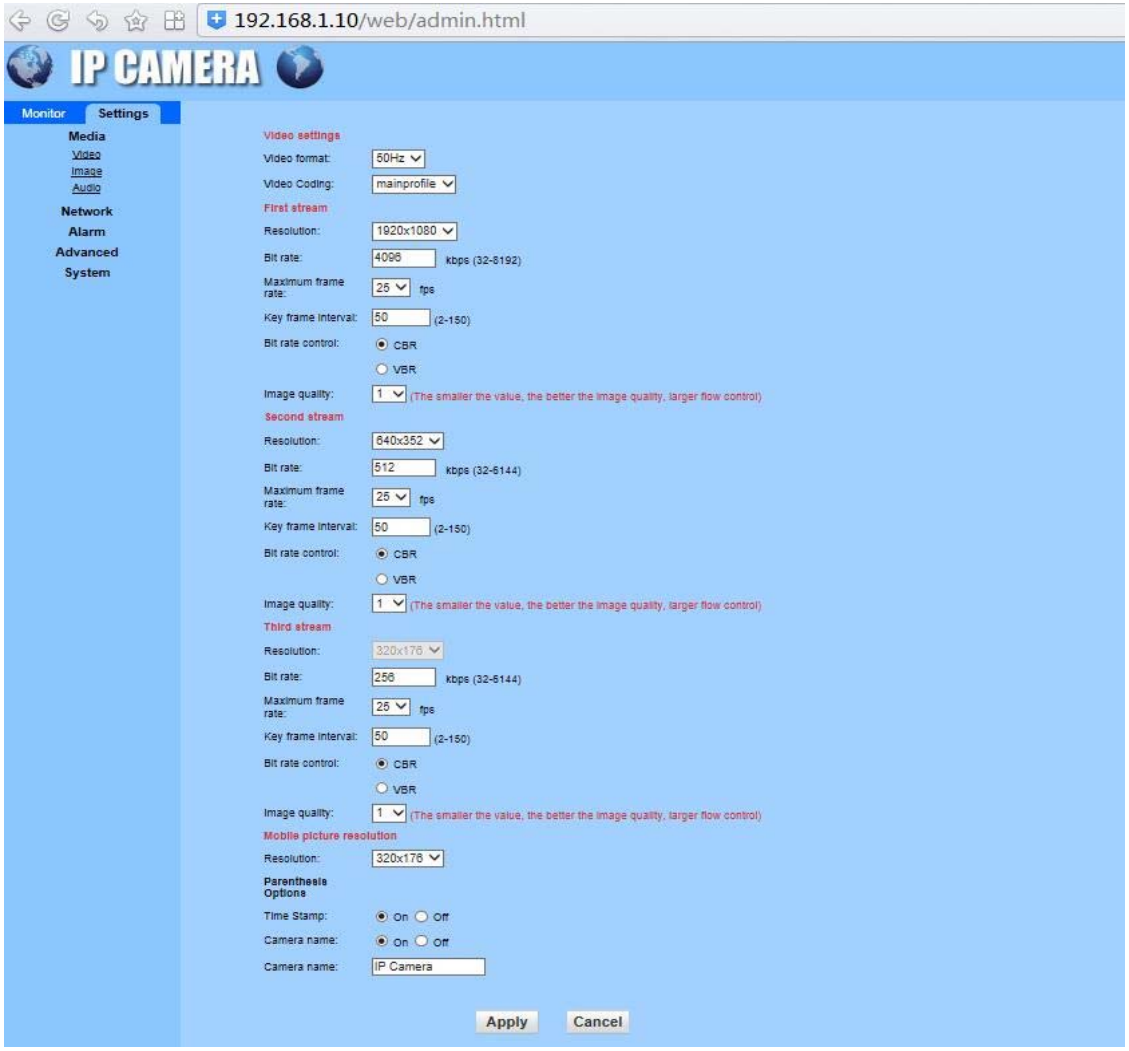
4.3 Media Setting

Media Setting is including: Video Setting, Image Setting, Audio Setting

4.3.1 Video Setting

Steps: (Ref. P4.3.1-1) “Settings – Media - Video”

Tip1: You can set the camera name, vide resolution, stream, frame rate and etc.

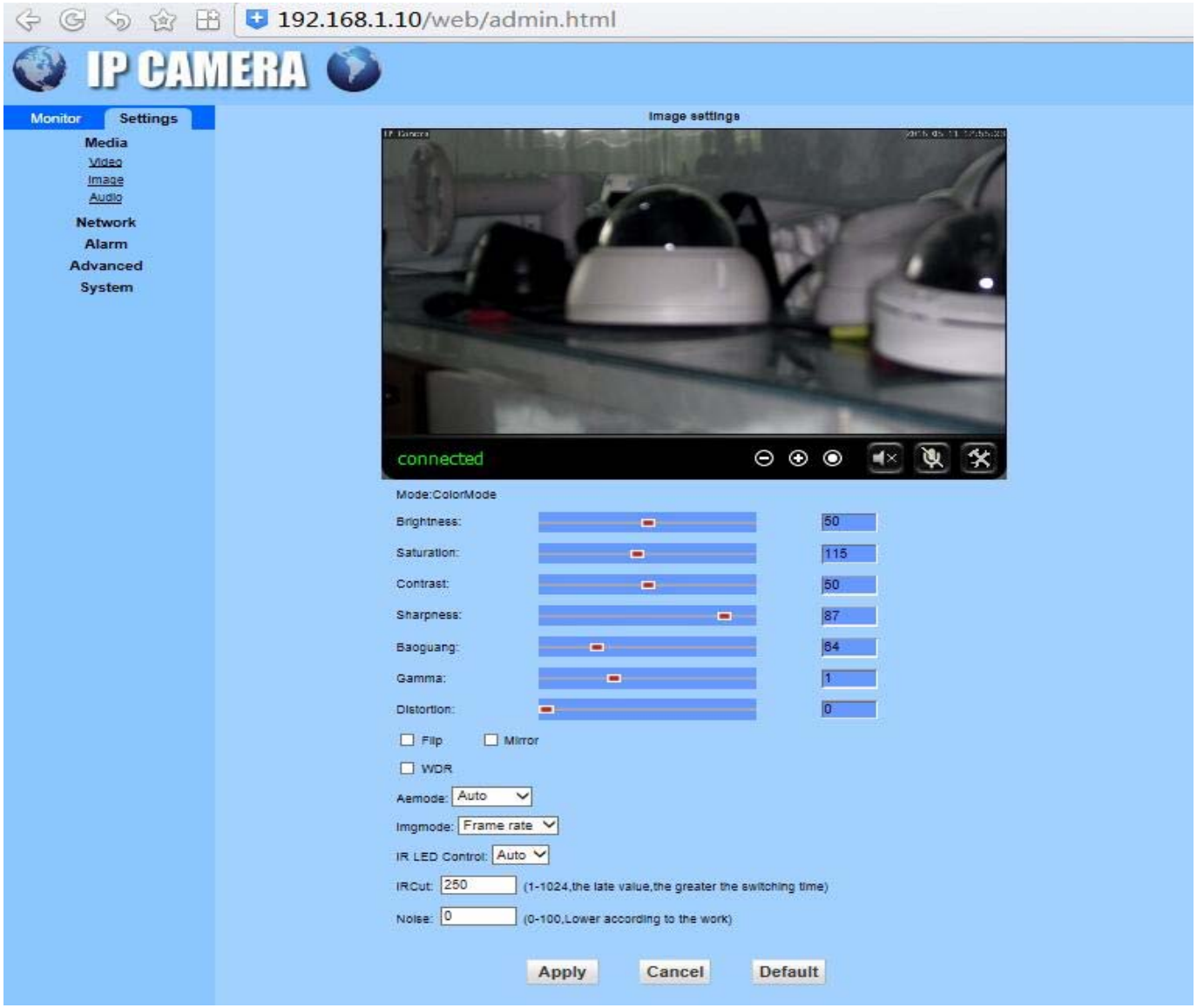


(P4.3.1-1)

4.3.2 Image Setting

Steps: (Ref. P4.3.2-1) “Settings – Media - Image”

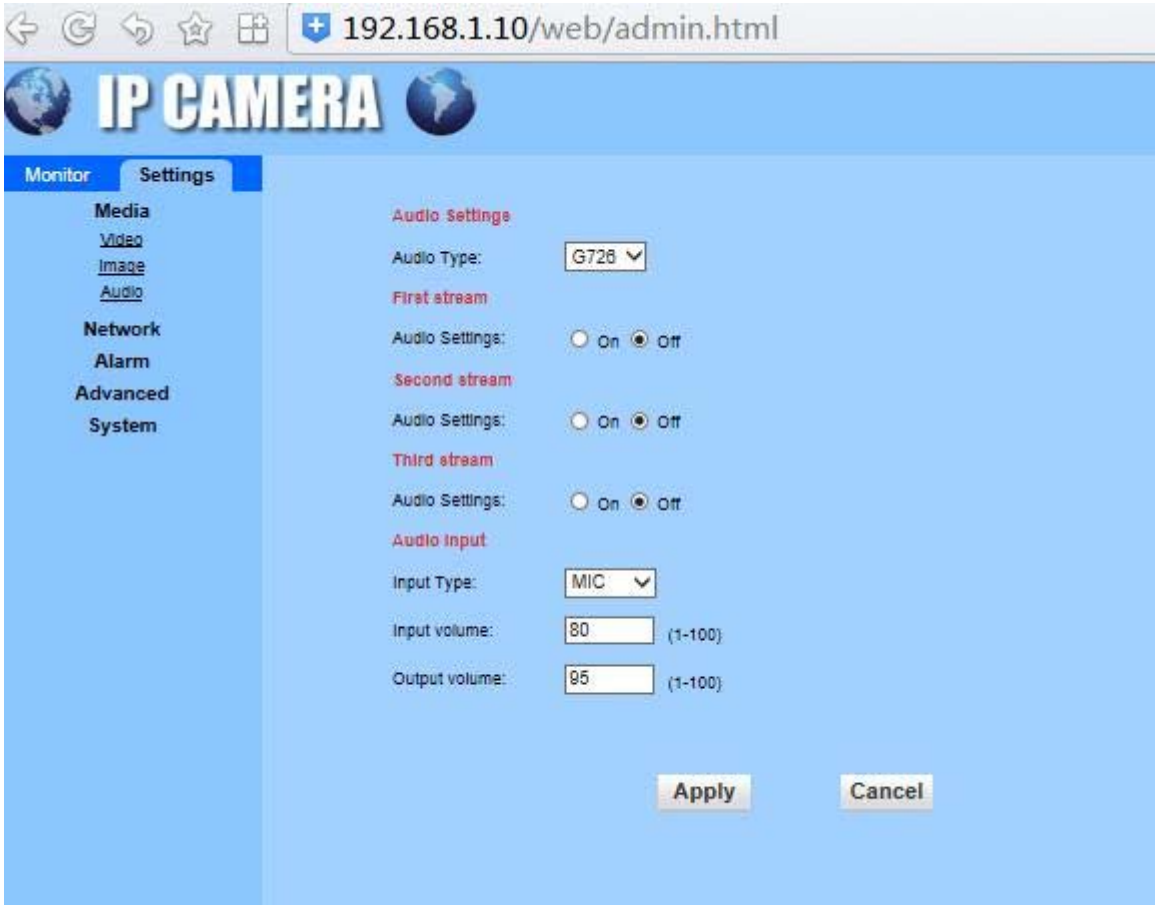
Tip1: You can set the image quality, WDR, IR and etc.



(P4.3.2-1)

4.3.3 Audio Setting

Steps: (Ref. P4.3.3-1) “Settings – Media - Audio”



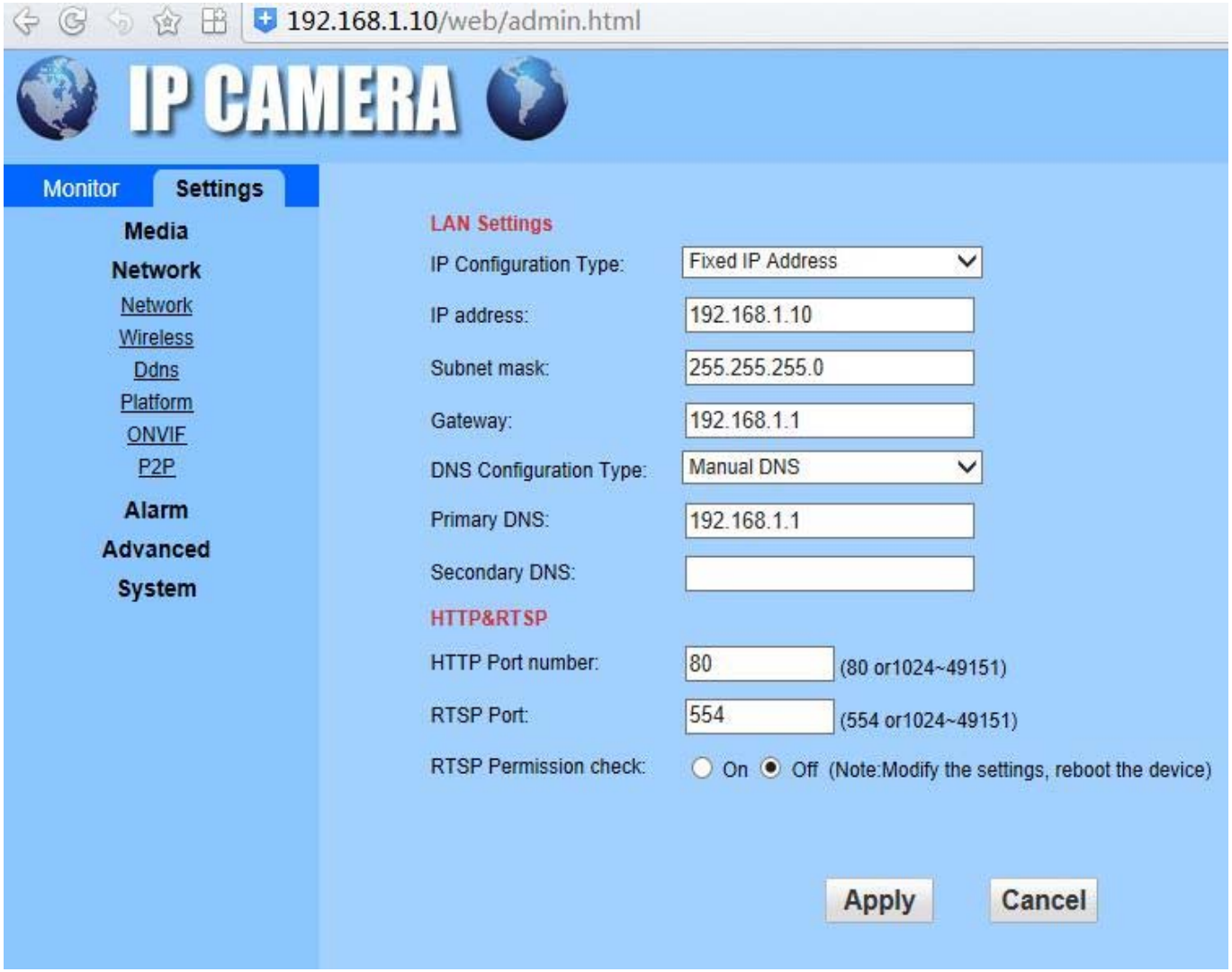
(P4.3.3-1)

4.4 Network Setting

4.4.1 Network

Steps: (Ref. P4.4.1-1) “Settings – Network - Network”

Tip1: You can set the main network IP and HTTP & RTSP information here.

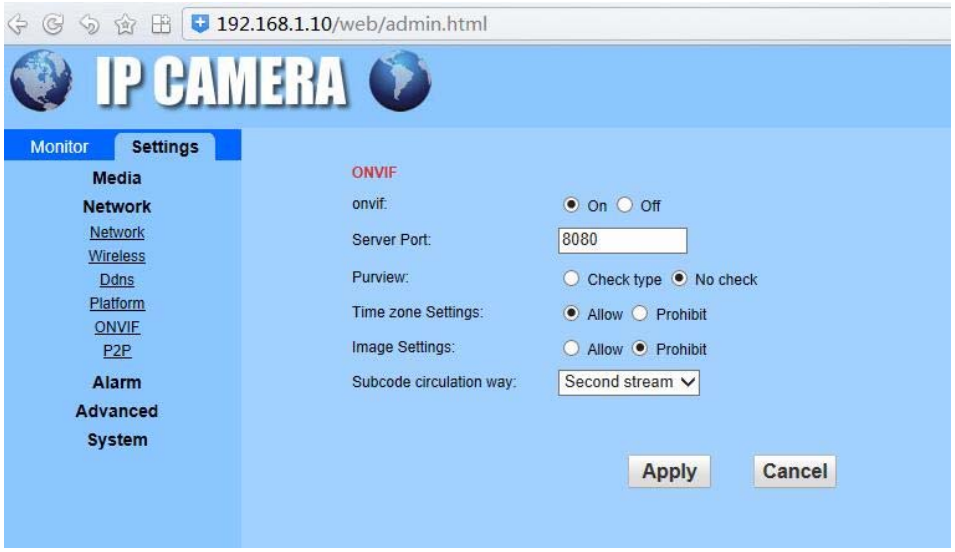


(P4.4.1-1)

4.4.2 ONVIF

Steps: (Ref P4.4.2-1) “Settings- Network- ONVIF”

Tip1: You can enable the ONVIF here and the port is 8080

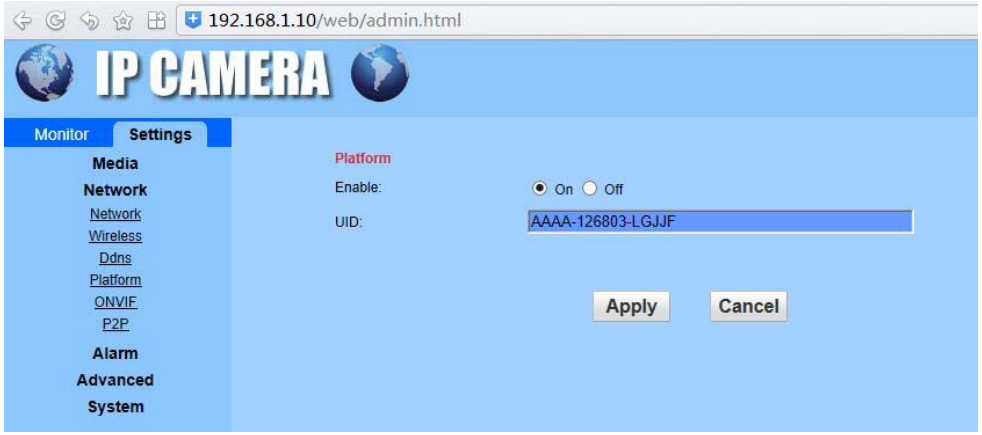


(P4.4.2-1)

4.4.3 P2P

Steps: (Ref P4.4.3-1) “Settings- Network-P2P”

Tip1: This is a function to allow mobile devices to access.

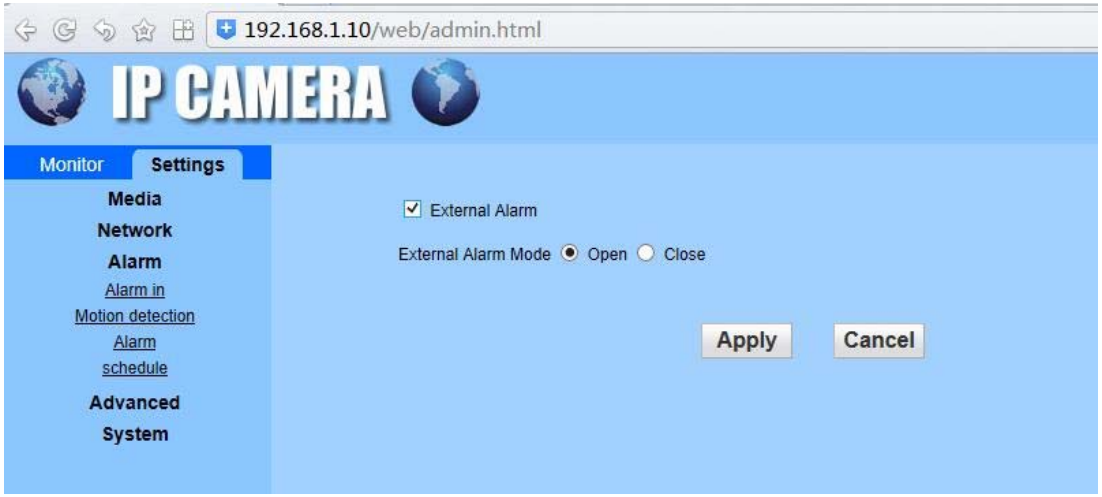


(P4.4.3-1)

4.5 Alarm Setting

4.5.1 Alarm in

If you will add external alarm system, please enable it. If no need, leave it. (P4.5.1-1)



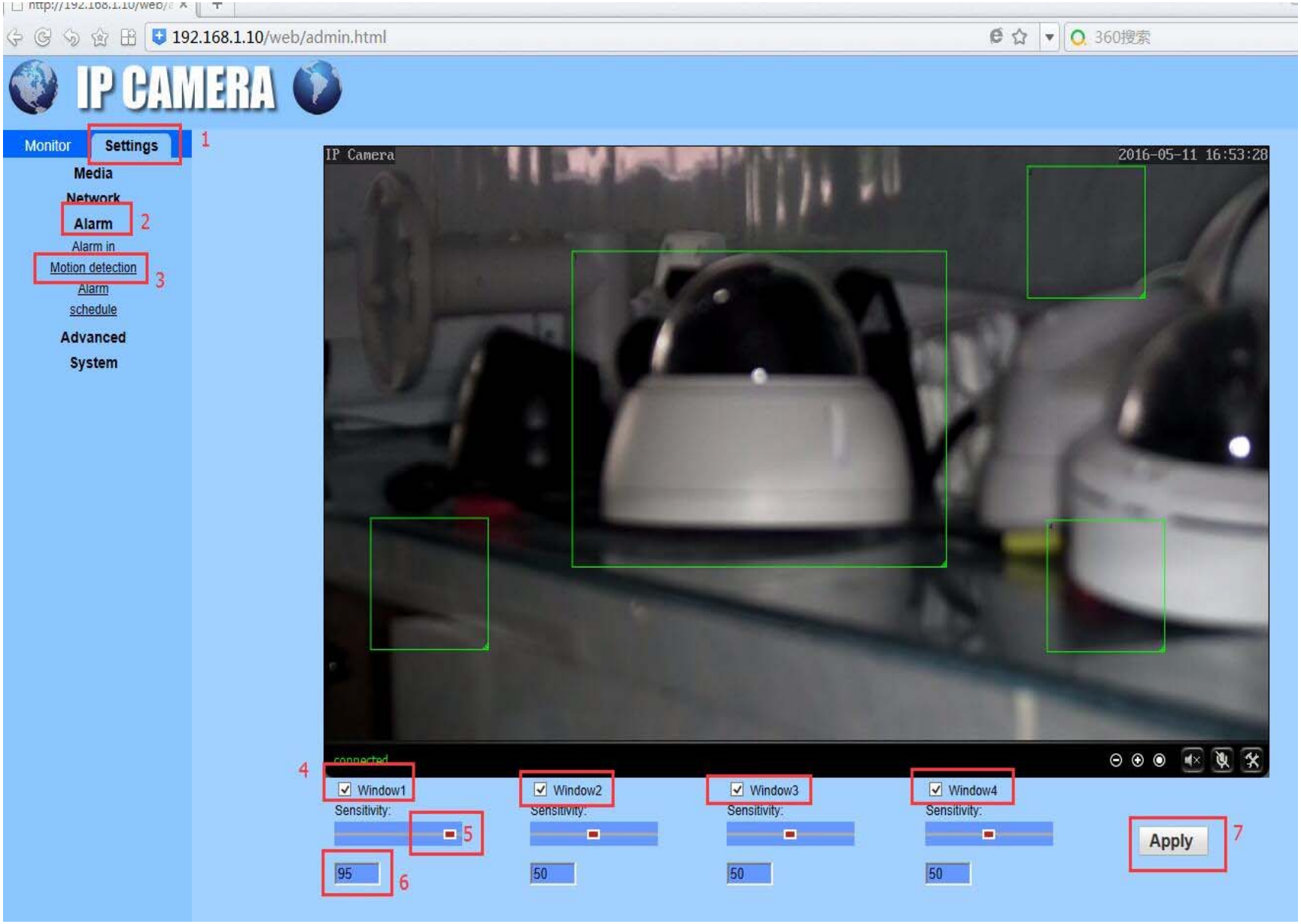
(P4.5.1-1)

4.5.2 Motion Detection Setting

Steps: (Ref. P4..5.2-1) “Settings – Alarm – Motion detection – Window – Sensitivity - Apply”

Tip1: You can choose 1-4 windows and you can move the detection area by mouse

Tip2: You can set the sensitivity by moving the bar, will show the specific sensitivity by below.


192.168.1.10/web/admin.html
360搜索
IP CAMERA
Monitor
Settings
1
Media
Network
Alarm
2
Alarm in
Motion detection
3
Alarm schedule
Advanced
System
IP Camera
2016-05-11 16:53:28
connected
4
Window1
Window2
Window3
Window4
Sensitivity:
5
95
50
50
50
6
Apply
7

(Ref. P4.5.2-1)

4.5.3 Alarm Setting

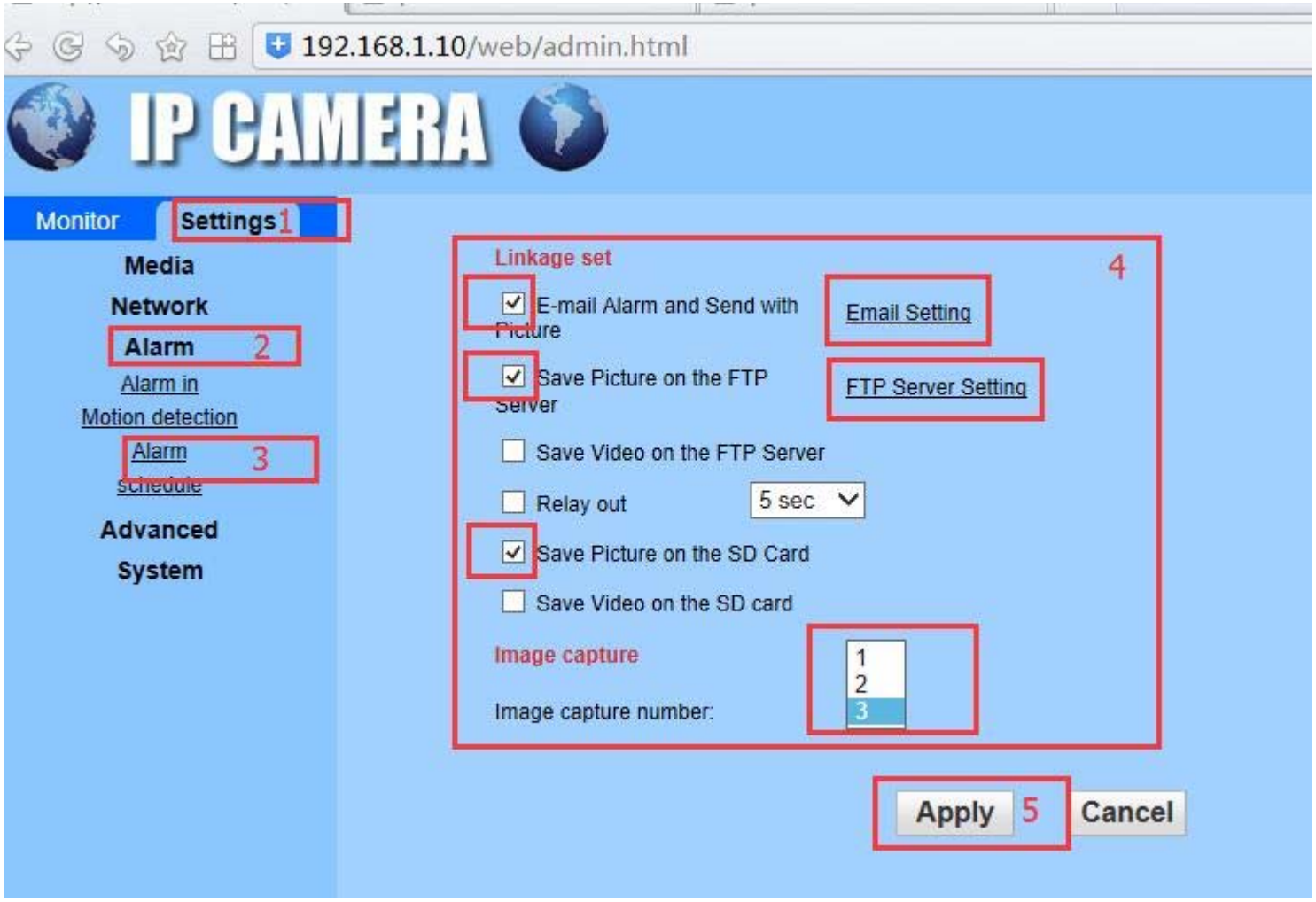
Steps: (Ref. P4.5.3-1) “Settings – Alarm – Alarm – Email Alarm – Picture FTP – Picture SD Card – Image number - Apply”

Tip1: You can choose E-mail Alarm, E-mail setting please refer to: **4.6.3**

Tip2: You can choose FTP saving picture, FTP Server Setting please refer to: **4.6.4**

Tip3: You can save the picture on SD Card

Tip4: You can choose the number of image capture 1 or 2 or 3.



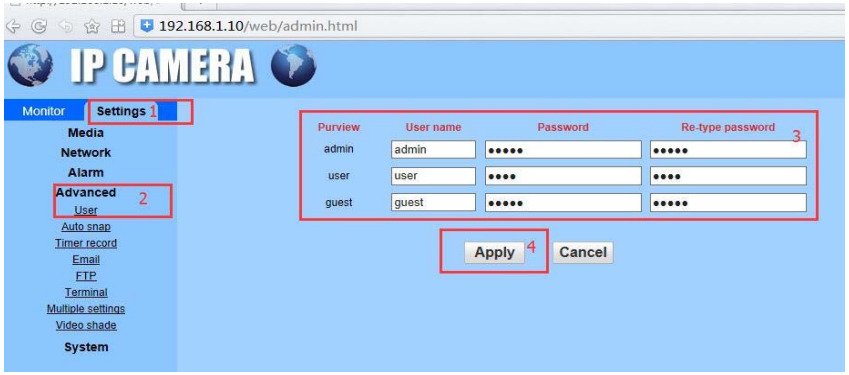
(P.4.5.3-1)

4.6 Advanced Settings

4.6.1 User Setting

Steps: (Ref P4.6.1-1) “Settings – Advanced – User – Setting- Apply”

Tip1: You can set user account for: Admin, User, Guest.



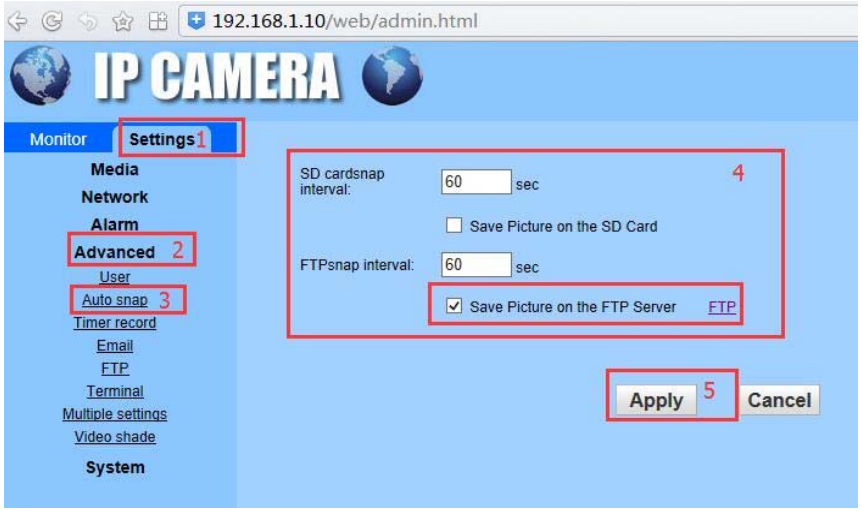
(P4.6.1-1)

4.6.2 Auto Snap

Steps: (Ref P4.6.2-1) “Settings – Advanced – Auto Snap –Setting - Apply”

Tip1: You can set to save picture on SD Card and the time frequency.

Tip2: You can set to save picture on FTP Server and the time frequency. FTP Server Setting Refer to: **4.6.4**



(P4.6.2-1)

4.6.3 E-mail Alarm Setting

Steps: (Ref. P4.6.3-1) “Settings- Advanced – Email- Fill in the SMTP information – Test - Apply”

Tip1: For SMTP information please inquiry with your email provider.

(P4.6.3-1)

4.6.4 FTP Server Setting

Steps: (Ref. P4.6.4-1) “Setting – Advanced – FTP – Fill in the Server information – Test - Apply”

Tip1: For FTP Server information you may ask for your server provider.

(P4.6.4-1)

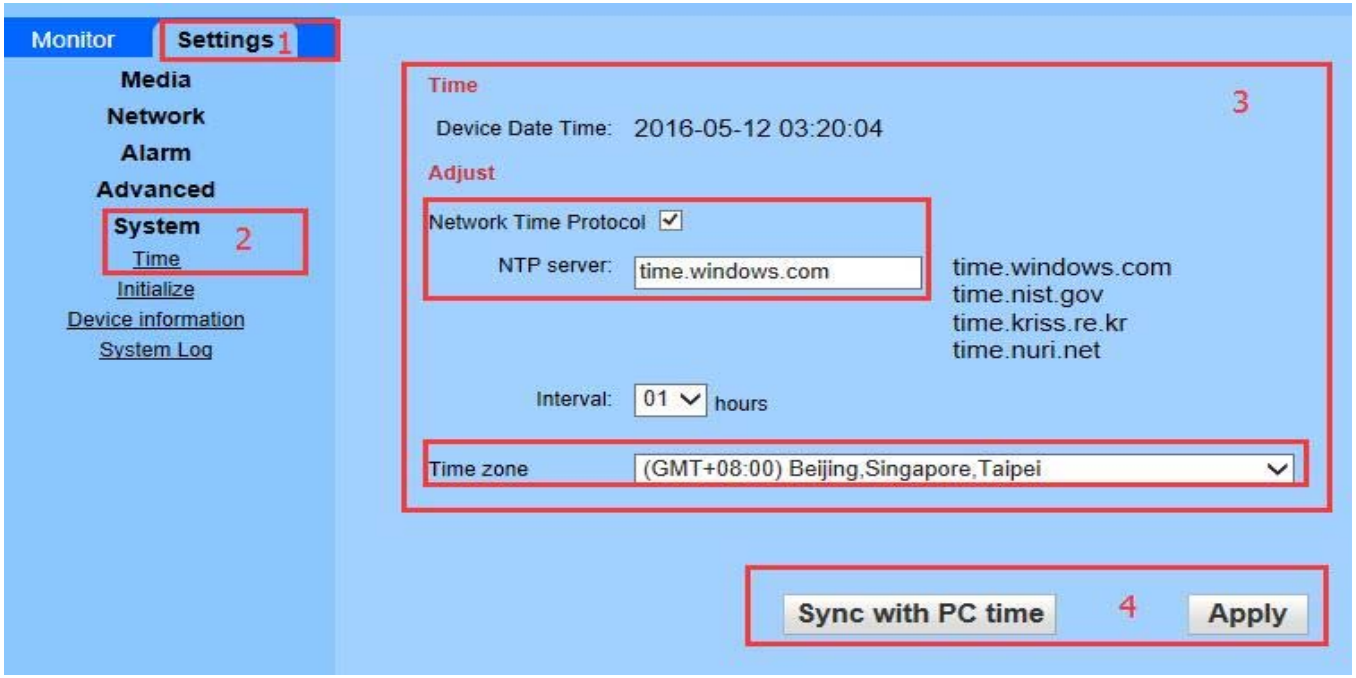
4.7 System Setting

4.7.1 Time Setting

Steps: (Ref P4.7.1-1) “Settings – System – Time – Choose the time zone and set the NTP - Apply”

Tip1: You can set the NTP

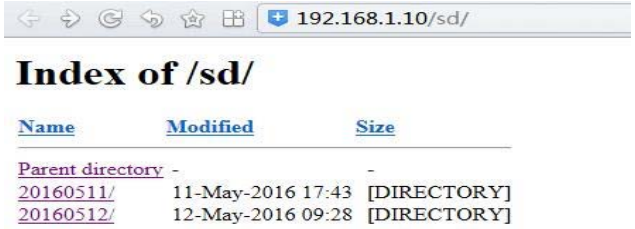
Tip2: You can Sync with PC time

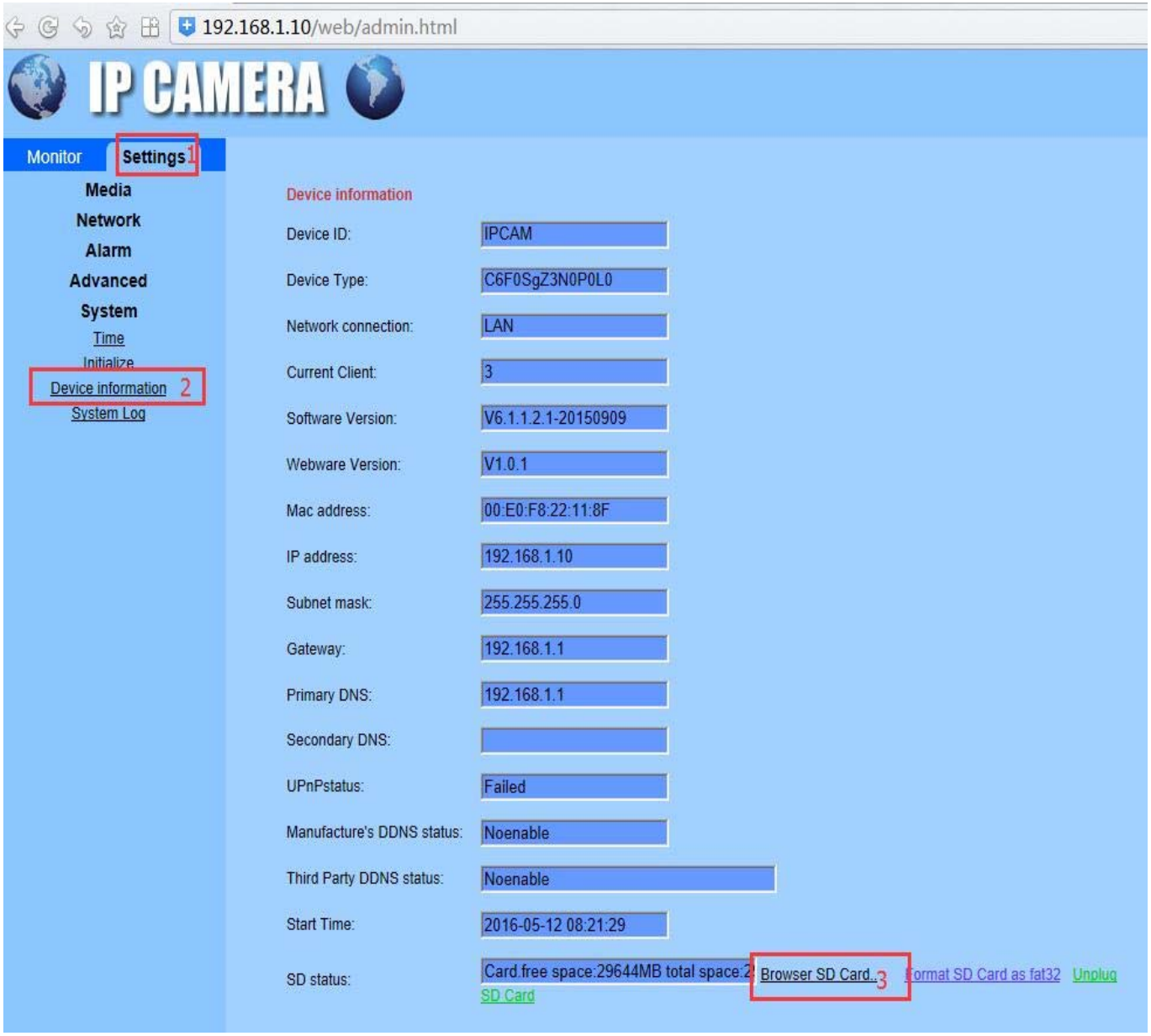


(P4.7.1-1)

4.7.2 Browser SD Card content

Steps: (Ref P4.7.2-1) “Settings – System – Device Information – Browser SD Card”




192.168.1.10/web/admin.html
IP CAMERA
Monitor
Settings
1
Media
Network
Alarm
Advanced
System
Time
Initialize
Device information
2
System Log
Device information
Device ID:
IPCAM
Device Type:
C6F0SgZ3N0P0L0
Network connection:
LAN
Current Client:
3
Software Version:
V6.1.1.2.1-20150909
Webware Version:
V1.0.1
Mac address:
00:E0:F8:22:11:8F
IP address:
192.168.1.10
Subnet mask:
255.255.255.0
Gateway:
192.168.1.1
Primary DNS:
192.168.1.1
Secondary DNS:
UPnPstatus:
Failed
Manufacture's DDNS status:
Noenable
Third Party DDNS status:
Noenable
Start Time:
2016-05-12 08:21:29
SD status:
Card.free space:29644MB total space:2
Browser SD Card..
3
Format SD Card as fat32
Unplug SD Card

(P4.7.2-1)

4.8 Default Factory Settings and Ports:

Using main Browsers (e.g.: IE browser)
Default Factory IP Address: 192.168.1.10
Default Factory User Name: admin
Default Factory Password: admin
RTSP Port: 554
ONVIF Port: 8080 (NVR Access protocol is ONVIF)
HTTP Port: 80