
Mobile Facial Recognition Appliance

User Manual

NEC (Hong Kong) Limited

Version 1.2

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Amendment History

Document Version	Release Date	Description
1.0	6/3/2014	Initial version
1.1	30/6/2014	Update camera setup and new parameters “camera redirect”
1.2	12/6/2015	Support firmware version 1.20 <ul style="list-style-type: none">● New section “Password Policy” is added● New section “Quick Start Guide” is added.● New section “Search Record Export” is added.● Appendix G Bosch Camera Setup NBN-832V-IP is updated.

1 Introduction

1.1 Overview

NEC's Mobile Facial Recognition Appliance is a comprehensive solution which utilizes Neoface – NEC's world No.1 Facial recognition algorithm to deliver a powerful video surveillance platform as a new approach to physical security and traditional CCTV systems. With seamless integration to IP cameras and networks, this appliance instantly transforms passive/reactive CCTV surveillance systems into a smart pro-active surveillance solution capable of recognizing unwanted visitors and generates intrusion alerts even before security breaches can occur.

This document supports the usage of MFRA firmware version 1.20.

1.2 Compatibility

1.2.1 Support Environment

Operating System	Browser
Windows 7 or above	Chrome version 32.0 or above
Android 4.0.3 or above	Chrome version 18.0 or above
iOS version 6.1 or above	Safari version 6.0 or above

1.2.2 Camera

The Appliance supports standard H.264 or motion jpeg streaming IP camera. Here is the list of cameras which are being tested.

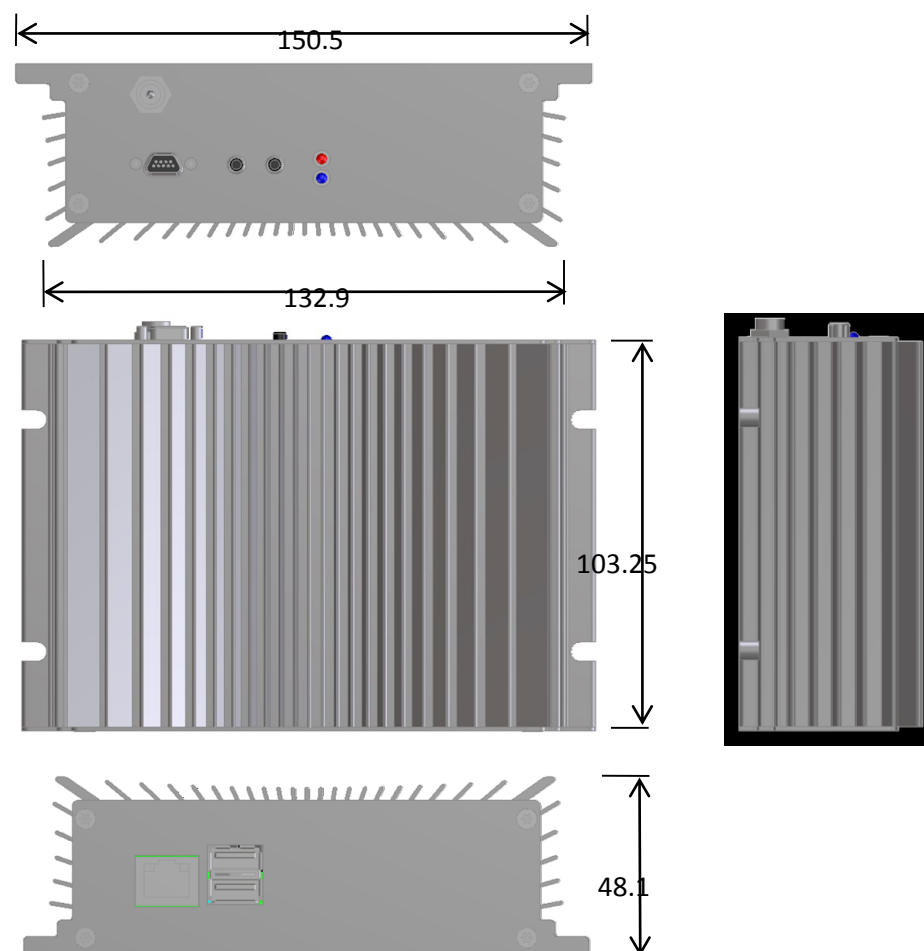
Brand Name	Model
AXIS	P1346 P1355
Panasonic	WV-SP508E
Sony	SNC-CH240
Hikvision	DS-2CD854F-EW
Samsung	SNO-6011R
Bosch	NBN-832V-IP

2 Specification

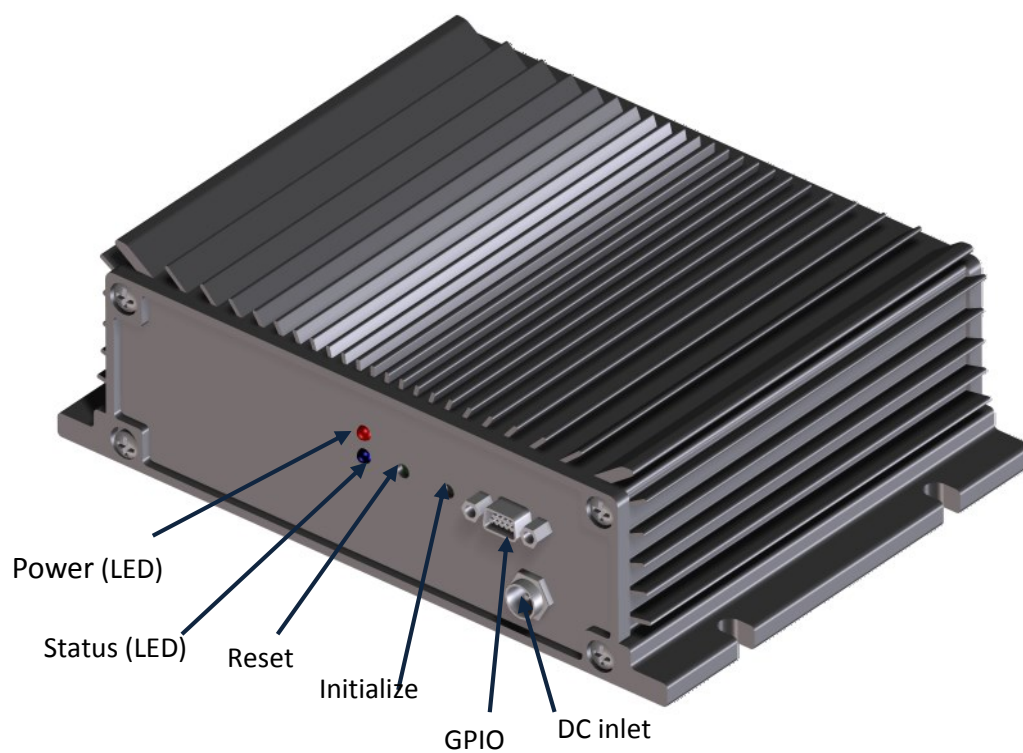
2.1 Hardware Specification

Conditions	-20 °C to 50 °C
Sea Level	Under 2000m
Input	100-240V
Weight	500 g
3G/ WIFI	Support external USB WIFI device
Special Interface	PoE, GPIO

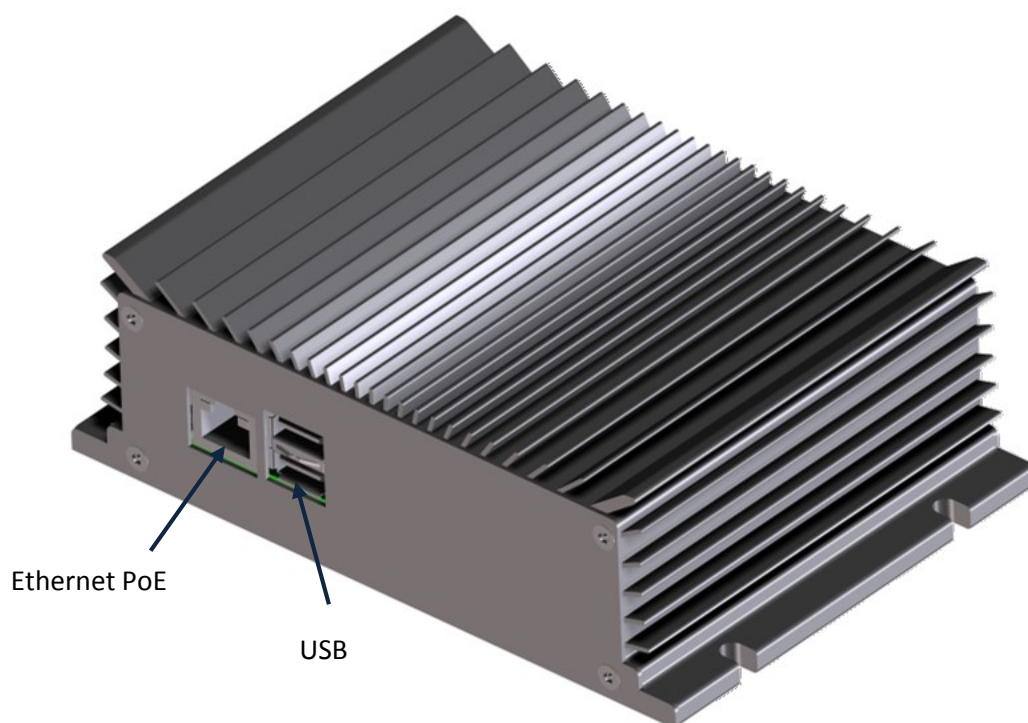
2.2 Dimensions



2.3 Interface Panel



Front Panel of Mobile Facial Recognition Appliance



Rear Panel of Mobile Facial Recognition Appliance

2.3.1 Panel Interface Description

Interface	Description
DC inlet	DC-in plug for 12V power adapter
Power (LED)	If power is supplied to the appliance it will be turned on
Status (LED)	Show the status of the appliance, if everything is normal, it will be turned off. For detail information, please refer to Appliance Health Status section
Reset	Reset button, press to restart the appliance
Initialize	Factory reset button, hold 10 second to trigger factory reset.
GPIO	General purpose I/O, which is used for controlling external device triggered by white/ black list hit in real time monitoring system
Ethernet	Ethernet plug which support PoE (Power over Ethernet)
USB	2 USB plugs support external WIFI/ 3G modem

3 Quick Start Guide

3.1 Initial Setup

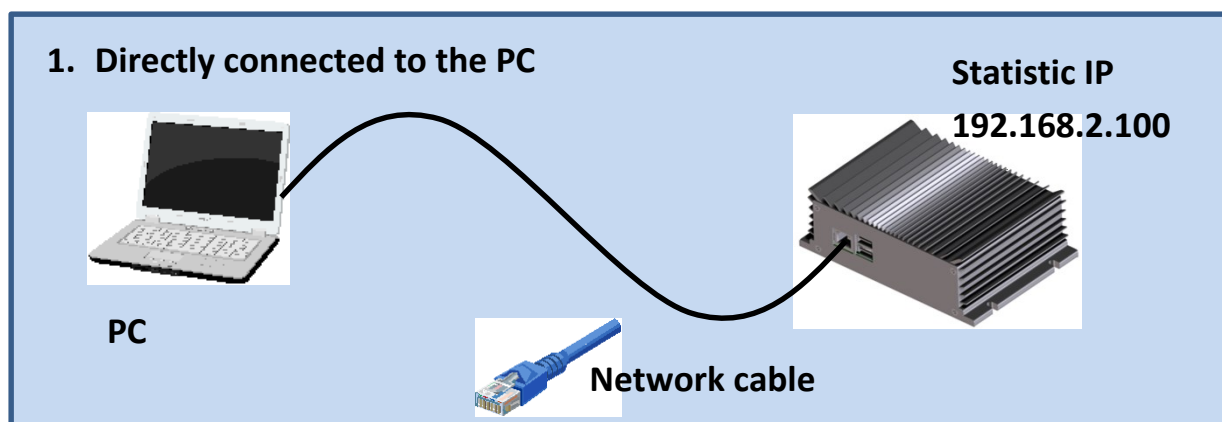
The diagrams below illustrate the connection between the appliance and PC for initial setup.

The system can be accessed by URL: <http://<<ip address>>:8080> with a supported browser. First time setup will need to be performed for new Mobile Facial Recognition Appliance or it is being factory reset by “Initialize” button.

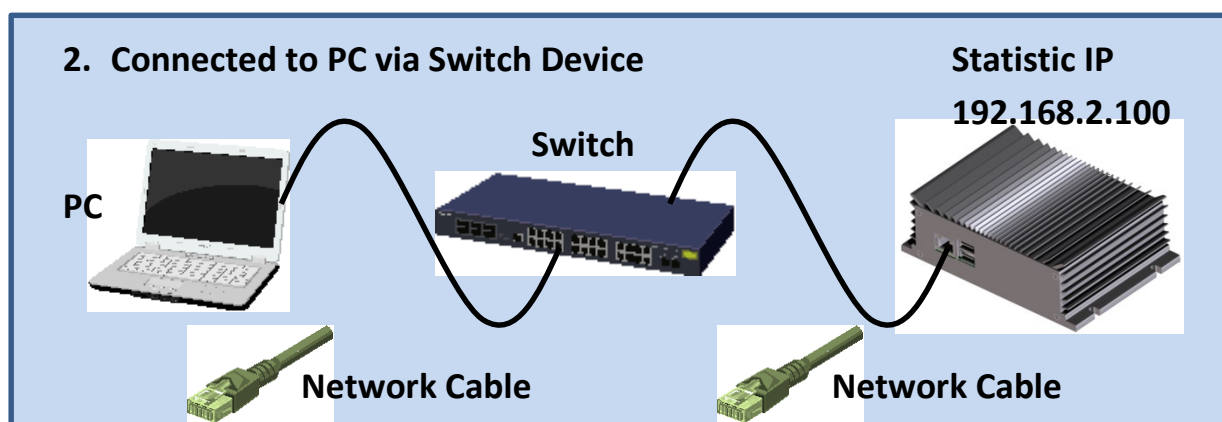
The default IP Address of the appliance is static “192.168.2.100”, so it can be reached by <http://192.168.2.100:8080>.

The detail steps of initial setup are following.

a) Connect the Appliance to the PC



Directly connected to the PC

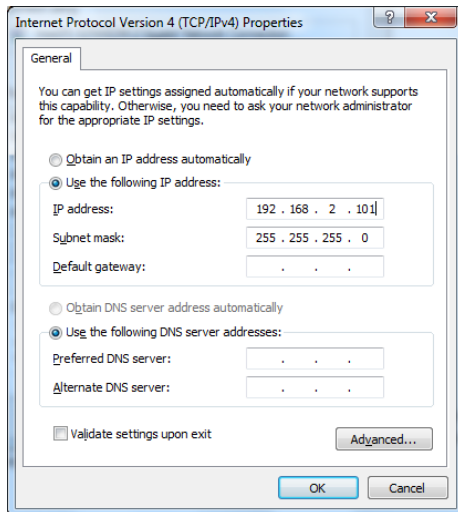


Connected to the PC via Switch

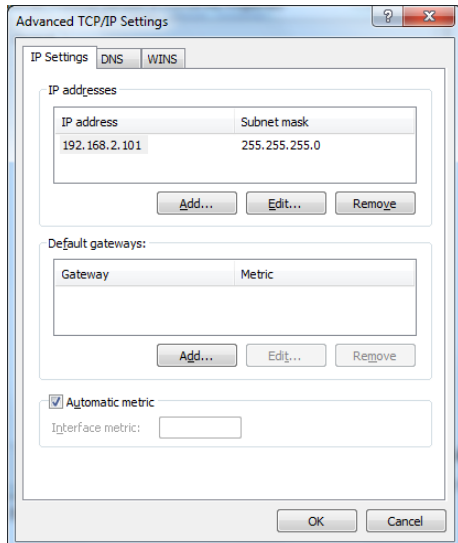
b) Configure the Network of the PC

Change the network settings of PC

IP address	192.168.2.101
Subnet mask	255.255.255.0



Or add it as an alternative IP address in Advance TCP/IP Settings



Test the connectivity between PC and the appliance by ping command.

i.e. ping 192.168.2.100

If the appliance cannot be reached, you may perform hardware reset by pressing the “Initialize” button for 10 seconds. After the factory reset is triggered, a long beep sound will be heard and the system will be ready after a short “beep” sound is heard.

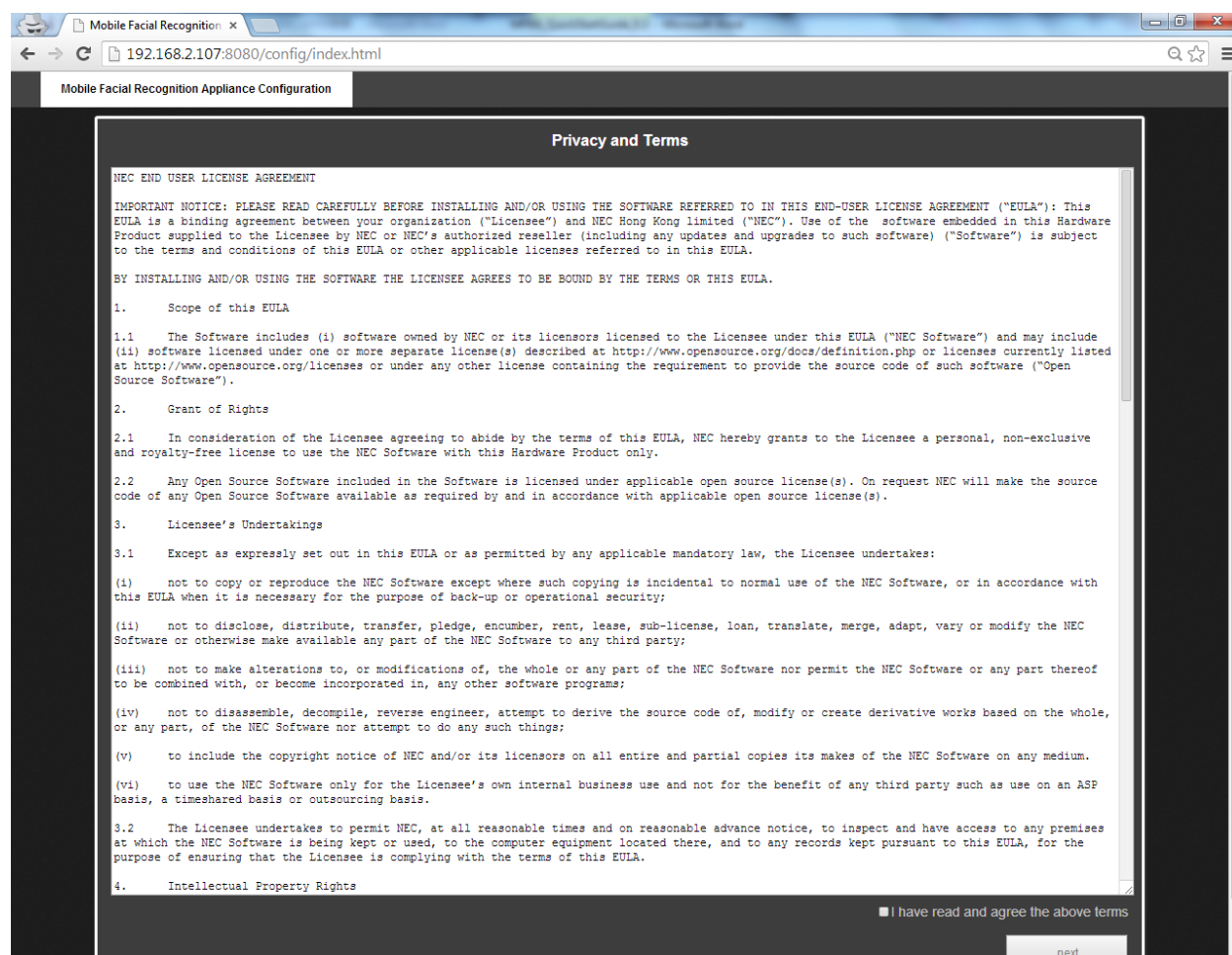
c) First Time Setup

1. Launch browser on PC (Chrome) and access the URL below:

<http://192.168.2.100:8080>

2. Accept the “Privacy and Terms”

After reading the “Privacy and Terms”, check the “I have read and agree the above terms” and click “Next” to continue.



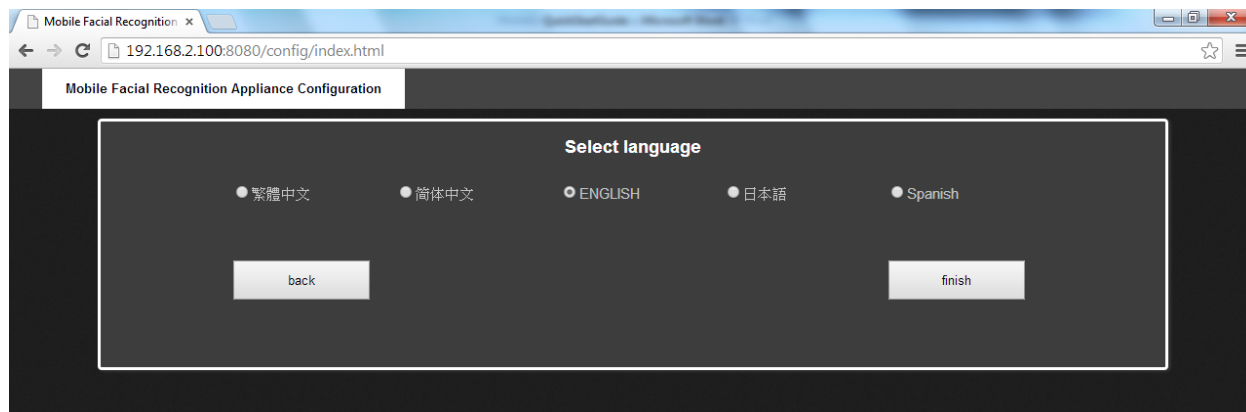
Privacy and Terms Acceptance Page

3. Select the Default Language for the Appliance

Five languages are supported in current version:

- English
- Traditional Chinese
- Simplified Chinese
- Japanese
- Spanish

After selecting the default language, click “Finish” to continue

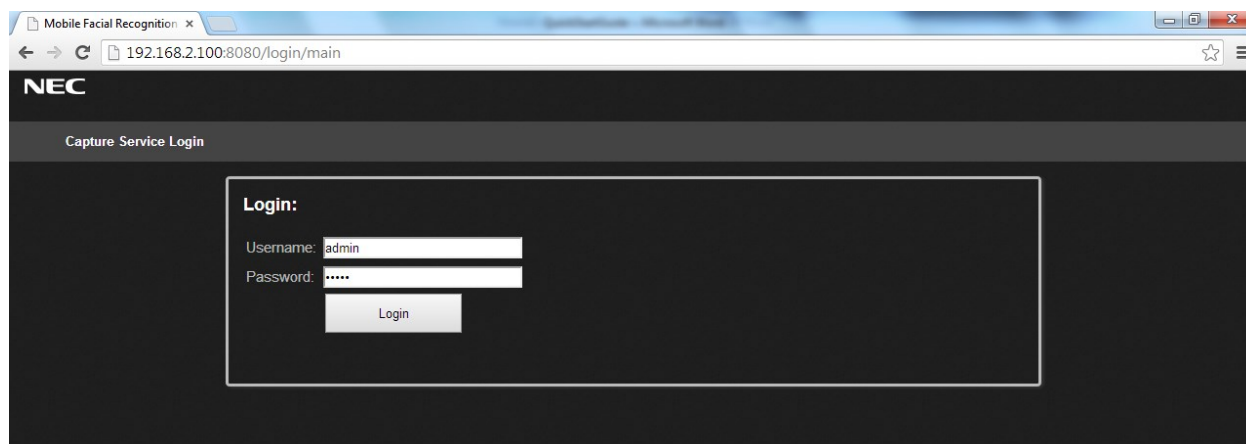


Default Language Selection Page

4. First Time Login

Login the system with default account:

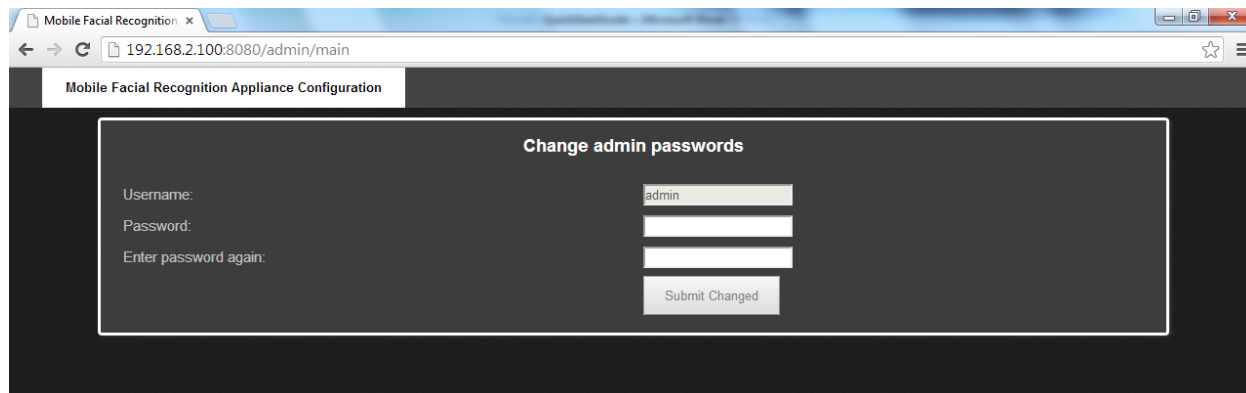
Username	<i>admin</i>
Password	<i>admin</i>



First Time Login Page

5. Update Admin Password

After login successfully, update password page will be displayed. It is requested to update the password of “admin” user. Please type in the password and click “Submit Change” to continue. The new password should be aligned on the password rule describe at password policy section.



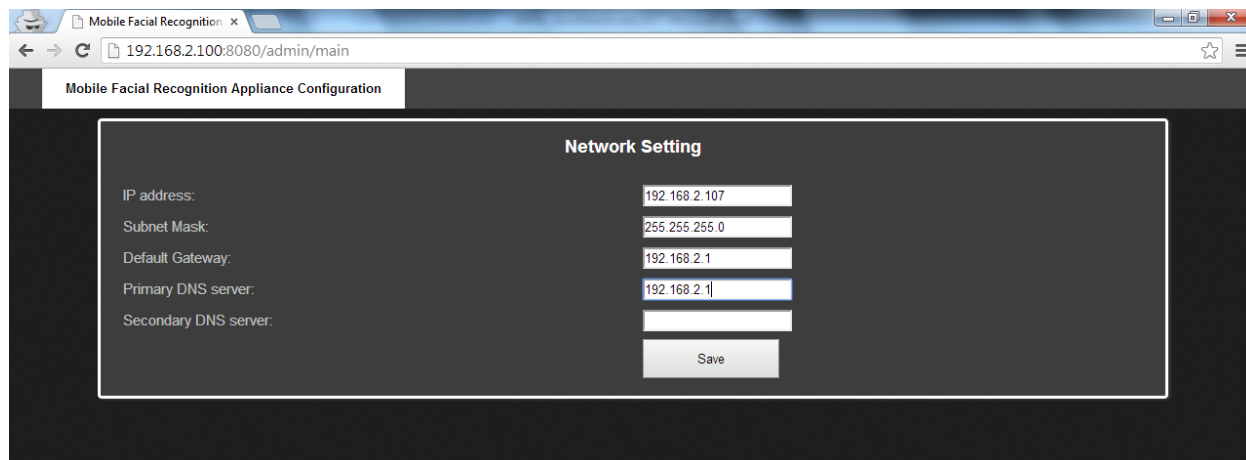
The screenshot shows a web browser window with the address bar displaying '192.168.2.100:8080/admin/main'. The page title is 'Mobile Facial Recognition Appliance Configuration'. The main content area is titled 'Change admin passwords' and contains the following fields and buttons:

Label	Value
Username:	admin
Password:	
Enter password again:	
<input type="button" value="Submit Changed"/>	

Admin Password Changing Page

6. Update the network setting

After updating the admin password, network setting page will be shown, please fill in the network setting and click “Save” to proceed. Only static IP is supported in initial setup, for DHCP/ WIFI, please refers to the network setting section in Mobile Facial Recognition Appliance User Manual.



The screenshot shows a web browser window with the address bar displaying '192.168.2.100:8080/admin/main'. The page title is 'Mobile Facial Recognition Appliance Configuration'. The main content area is titled 'Network Setting' and contains the following fields and buttons:

Label	Value
IP address:	192.168.2.107
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.2.1
Primary DNS server:	192.168.2.1
Secondary DNS server:	
<input type="button" value="Save"/>	

Network Setting Update Page

7. Initial setup is completed and login the appliance.

After update the network setting, the web will redirect to the new IP address automatically. The appliance is ready to be used.

3.2 Express Settings

“Express Setting” page can be found after the appliance is logon, which covers the basic setup for the appliance. The more detailed settings can be found at “Advanced Setting”. For the “Advanced Setting”, please refer to Mobile Facial Recognition Appliance User Manual.

The screenshot shows a web browser window with the address bar displaying "192.168.2.44:8080/admin/main". The page title is "Mobile Facial Recognition". The top navigation bar includes "Information", "Express Setting" (selected), and "Advanced Setting". The top right corner shows "Logged as: admin", "Embedded FRS", and "Logout". The main content area is titled "Express Setting" and contains the following sections:

- Camera Settings:**
 - Camera Type: Custom (dropdown menu)
 - IP camera Url: [text input field]
 - Motion Jpeg Url: [text input field]
 - Capture Delay (200ms - 5000ms): 300 (slider)
- Face Quality Control Parameters:**
 - quality score: (0.00 - 1.00): 0.5 (slider)
- Real Time Monitoring System:**
 - Enabled: ☒
 - Threshold (0.0 - 1.0): 0.7 (slider)
- E-mail notification**
 - Enabled e-mail notification: ☐

A "Save" button is located at the bottom right of the settings area. The footer of the page displays "Copyright NEC Corporation Limited. 2013. All rights reserved." and "United State (English)".

3.2.1 Camera Settings

The system supports IP cameras with H.264 or motion jpeg streaming.

The default “Camera Type” is set to “Custom”, the parameters are as follows:

Parameters	Description
IP Camera Url	URL to access the IP camera
Capture Delay	The capture interval between frames, default is set to 300 ms.
Preview Type	The type of the preview URL, either static jpeg(H.264) or motion jpeg streaming
Preview Url	Url to preview the camera at Surveillance page. It is for viewing purpose only.
Static Jpeg Refresh Interval	The refresh interval of static jpeg in the surveillance page. Default is set to 20. (Shown when Preview Type is set to Static Jpeg)
Preview Redirect	To redirect the preview source from the appliance, instead of allowing the appliance to be connected directly to the IP camera source

Please check the IP camera manual for the URL.

Here is the list of cameras which are being tested and predefined camera type can be used for ease of setup. For the detail recommendation regarding the supported cameras, please refer to Appendix A – G.

Brand Name	Model	Camera Type	Resolution
AXIS	P1346 P1355	AXIS Camera	1920 x 1080
Panasonic	WV-SP508E	Panasonic Camera	1920 x 1080
Sony	SNC-CH240	Sony Camera	1920 x 1080
Hikvision	DS-2CD854F-EW	Hikvision Camera	1280 x 720
Samsung	SNO-6011R	Samung Camera	1920 x 1080
Bosch	NBN-832V-IP	Bosch Camera	1920 x 1080

Camera Settings:

Camera Type: Custom

IP camera Url: rtsp://192.168.2.96:554/axis-media/media.amp?resolution=1920x1080

Capture Delay (200ms - 5000ms): 300

Preview Type: Static Jpeg

Preview Url: http://192.168.2.96/axis-cgi/mjpg/video.cgi?resolution=640x360

Static jpeg refresh interval: 20

Preview Redirect:

3.2.2 Face Quality Control Parameters

This section is used to adjust the sensitivity of face detection algorithm. Update this section, if face cannot be detected or incorrect face was detected.

Parameters	Range	Description
Face quality score	0.00 – 1.00	Face quality threshold score for face detection. For any face detected in image, face quality score will be given by the system. If the face score is larger than this value, the face image will be qualified to continue the further action. (e.g. real time monitoring)

3.2.3 Real Time Monitoring System

Working with IP camera stream, the system can be sued as real time monitoring system. Images can be obtained from the live stream of IP camera and the system will perform facial matching against the internal enrolled person record. The system will alert for and hit/ not hit case for user further action.

Here are the descriptions of real time monitoring system options:

Parameters	Description
Threshold	The facial matching threshold for the real time monitoring system. If any one of face matching score between live face image and database face image is larger than the threshold, search hit will be generated. Otherwise, not hit record will be generated instead.

3.2.4 Email Notification

The system provide e-mail notifications feature, there are 3 kinds of email alert.

- System alert
E-mail alert will be sent to predefined e-mail list : “System Mail List”, if system alert such as “Frame capture failed”, “System startup” is occurs by the system.
- Hit record alert for white list
Email alert will be sent to predefined e-mail list, if white listed person is matched in real time monitoring system.
- Hit record alert for black list
Email alert will be sent to predefined e-mail, if black listed person is matched in real time monitoring system.

To enable the e-mail notification, please check the “e-mail notification” and fill in the mail server gateway information. The system support both SMTP and TLS protocol.

For the email list, please input one email address on each line of the textbox as shown as the screenshot below.

The screenshot shows the 'admin/main' interface of the Mobile Facial Recognition Appliance. The interface is divided into several sections for configuration:

- Motion Jpeg Url:** A text input field.
- Capture Delay (200ms - 5000ms):** A slider set to 300.
- Face Quality Control Parameters:** A slider for 'quality score: (0.00 - 1.00)' set to 0.5.
- Real Time Monitoring System:** Includes a checked 'Enabled' checkbox and a 'Threshold (0.0 - 1.0)' slider set to 0.7.
- E-mail notification:** Includes a checked 'Enabled e-mail notification' checkbox, 'SMTP Gateway' (smtppaddress), 'Port' (25), 'SMTP Server Protocols' (SMTP), 'Sender Address' (mfra@test.nec.com), 'Login Id' (mifa), 'Login Password' (*****), 'Notification Interval (seconds)' (60), and an 'Anonymous Login' checkbox.
- System Mail List:** A text area containing 'sysadmin1@test.nec.com' and 'sysadmin2@test.nec.com'.
- Time Monitoring List (White List):** A text area containing 'user1@test.nec.com' and 'user2@test.nec.com'.
- Time Monitoring List (Black List):** A text area containing 'user2@test.nec.com', 'user3@test.nec.com', and 'user4@test.nec.com'.

Callouts on the right side of the image point to the email lists:

- System Mailing List:** Points to the 'System Mail List' text area.
- Search Hit (White List) Mailing List:** Points to the 'Time Monitoring List (White List)' text area.
- Search Hit (Black List) Mailing List:** Points to the 'Time Monitoring List (Black List)' text area.

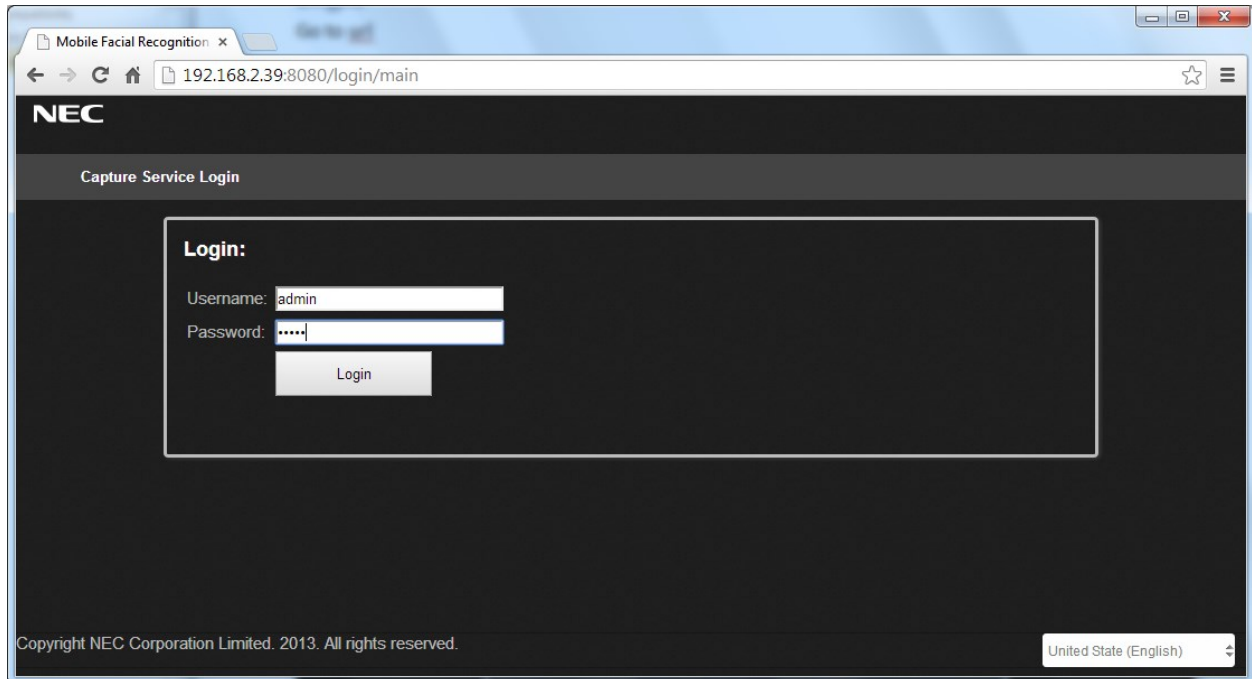
A 'Save' button is located at the bottom of the configuration area.

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4 Built-in Function

4.1 Login

The system can be accessed by URL: `http://<ip address>:8080` with a supported browser. Please type in username and password and click “Login” button.



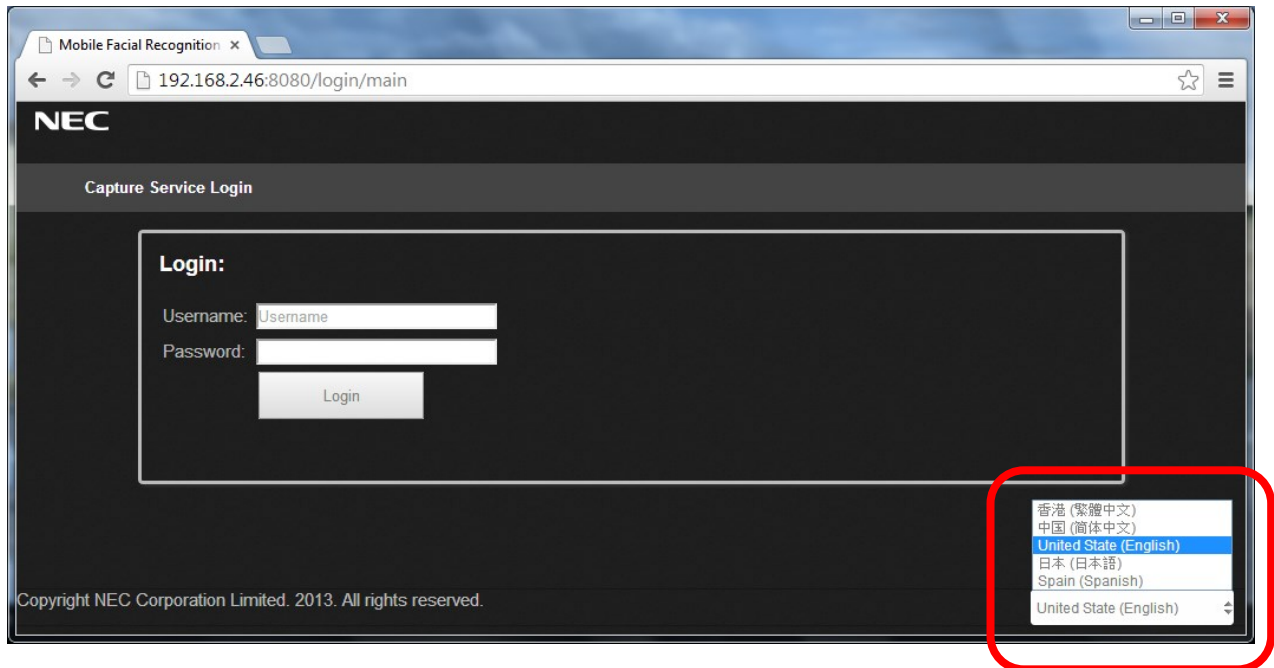
If user with “Admin” type is login, it will redirect to admin page, otherwise it will redirect to embedded FRS page directly.

4.2 Multi-Languages Support

The built-in web application supports five languages currently, the list of languages are as follow:

- English
- Traditional Chinese
- Simplified Chinese
- Japanese
- Spanish

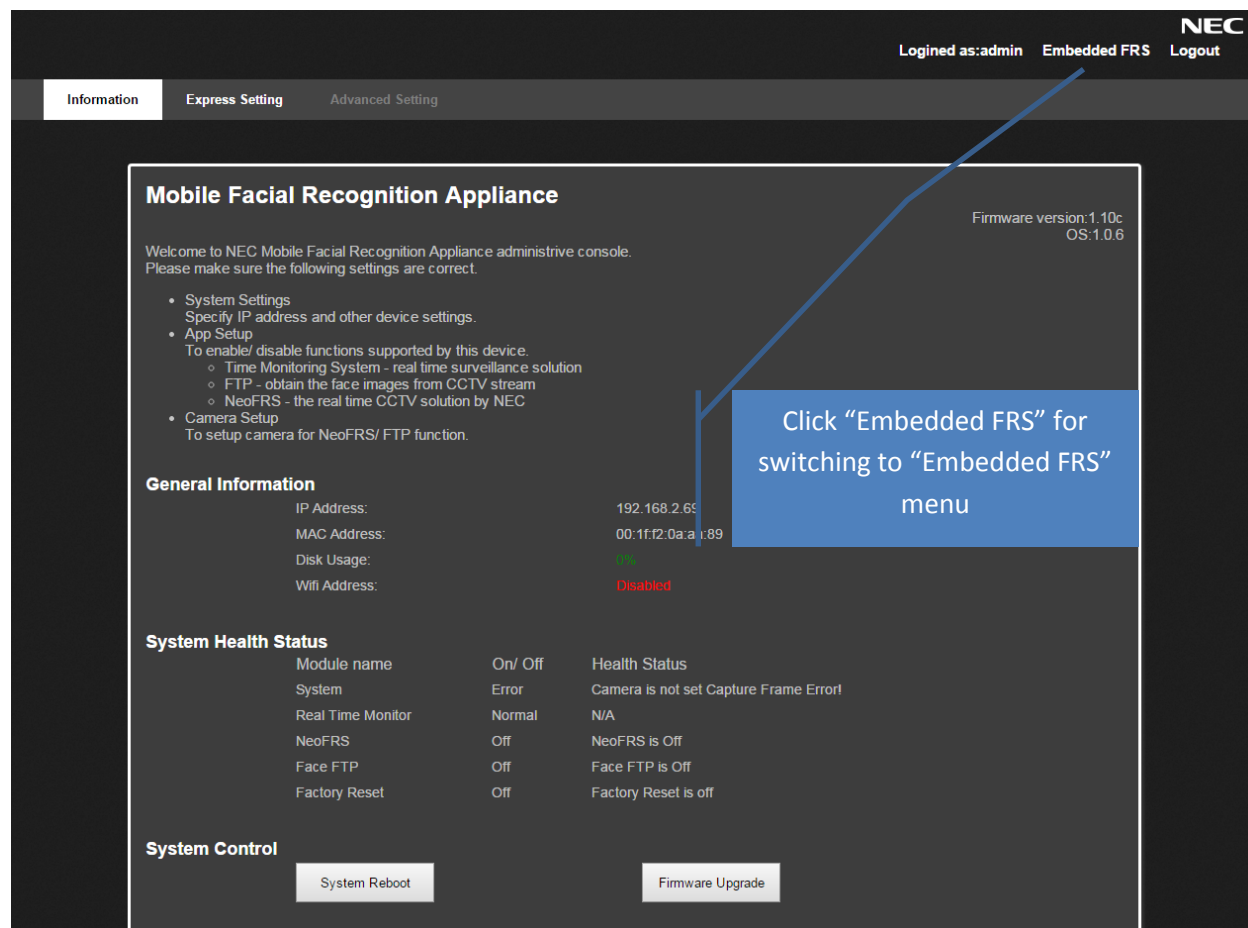
The language can be changed by selecting the language option combo box at the right bottom corner of the page.



4.3 Main menu

4.3.1 Admin

“Admin” menu is the administrative page.



Page	Usage
Information	<ul style="list-style-type: none"> General Information System Reboot Firmware Upgrade
System Setting	<ul style="list-style-type: none"> Date & Time Settings E-Mail Notifications Factory Reset Enable Setting
Network Setting	<ul style="list-style-type: none"> Lan Network Wifi Network 3G Network
Function Setup	<ul style="list-style-type: none"> Real Time Monitoring System NeoFRS Face Capture FTP
Camera Setup	<ul style="list-style-type: none"> Camera Settings Quality Control Parameters

User Management

- Add/ Edit / Delete System User

Audit Log

- Server Log
- System Audit Log

4.3.2 Embedded FRS



Page	Usage
Surveillance	<ul style="list-style-type: none"> • Alert viewer for real time monitor system
Search Record Enquiry	<ul style="list-style-type: none"> • Hit record enquiry • Not hit record enquiry • Hit ranking enquiry • Record House Keep
Person Maintenance	<ul style="list-style-type: none"> • Facial database Maintenance

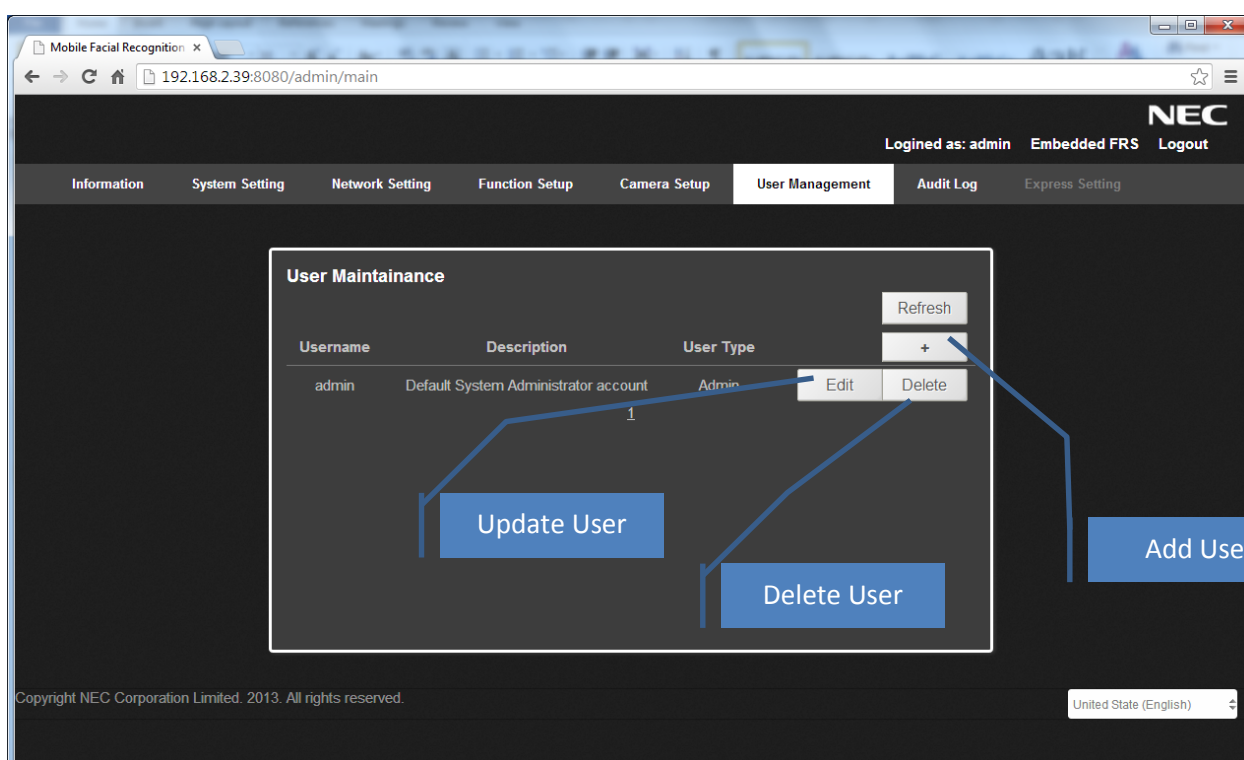
4.4 System Administration

4.4.1 User Management

The user management can be performed through “User Management” page under “Admin” menu. User with “Admin” user type can perform user account management actions, including “Add”, “Edit” and “Delete”.

There are two type of user account for the system:

- Admin: System administrator, can access both “Admin” menu and “Embedded FRS” menu
- User: General user, can only access to “Embedded FRS” menu only

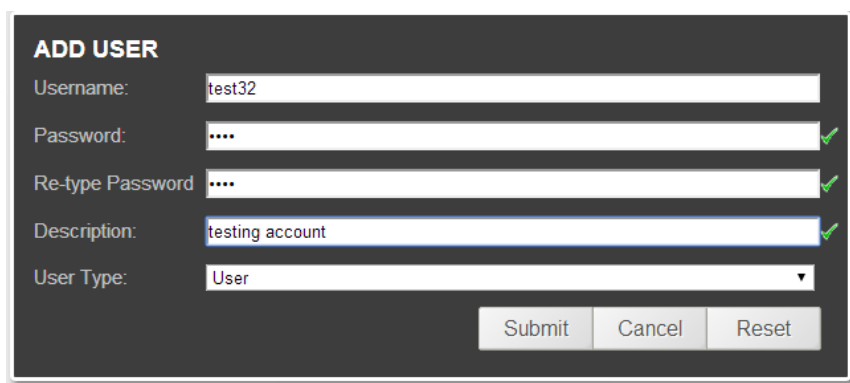


Admin user can perform user account management action via “User Management” page

4.4.1.1 Add User

To add a new user

1. Click “+” button at the user maintenance panel
2. Fill in the information accordingly and click “Submit” to confirm



ADD USER

Username: test32

Password: ✓

Re-type Password: ✓

Description: testing account ✓

User Type: User ▼

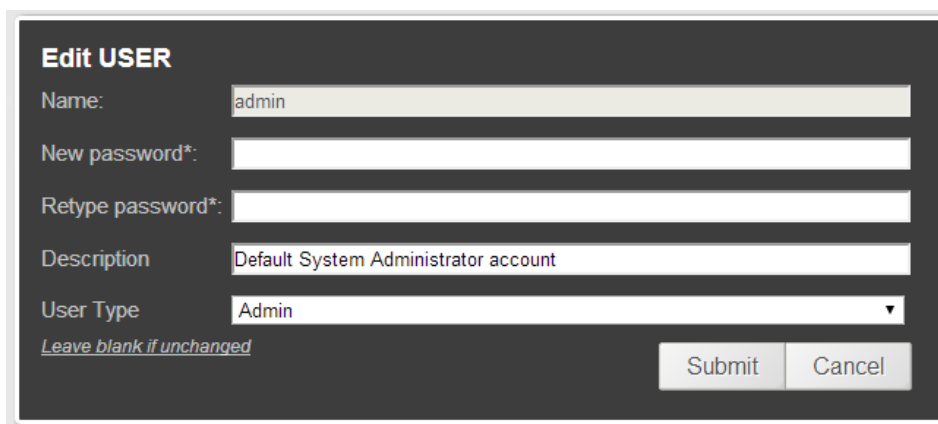
Submit Cancel Reset

Add User popup dialog

4.4.1.2 Edit User

To edit an existing user

1. Click “Edit” button at right side of the selected user
2. Update the description/ user type
3. Type in the new password if it is necessary
4. Click “Submit” to continue the action



Edit USER

Name: admin

New password*:

Retype password*:

Description: Default System Administrator account

User Type: Admin ▼

Leave blank if unchanged

Submit Cancel

Edit User popup dialog

4.4.1.3 Delete User

To edit an existing user

1. Click “Delete” button at right side of the selected user



Delete User confirmation dialog

4.4.1.4 Password Policy

New Password must contain 6~16 characters, including at least one digital, both lowercase and uppercase letters and one special character (. * & ^ % \$? , # @ _ ! + =).

4.4.2 Log & Audit Trail

Admin user can access to system log through “Audit Log” page under “Admin” menu.

There are two type of log from the system:

- Server Log
 - The current system running log for detail analysis
 - Please copy the log to system support engineer, if detail analysis is required
- System Audit Log
 - The system will log every system event, user operation into the system audit log.
 - Settings update
 - System startup
 - User can search the audit log by date and trace level filter
 - The system will show the audit log order by time in descending order.

Audit Log:

Server log:

```
01-22 17:26:56.210 6320 6647 I CaptranController: Boardcast Result Success
01-22 17:26:56.210 6320 6647 I CaptranController: Process result used 80ms
01-22 17:26:56.970 6381 13591 I FRSFindFace: Face found: 2
01-22 17:26:56.970 6381 13591 I FRSFindFace: Process Face index: 0
01-22 17:26:56.970 6381 13591 I FRSFindFace: DLocateFacialFeaturePoints:0 689
547 613 547
```

System Audit Log:

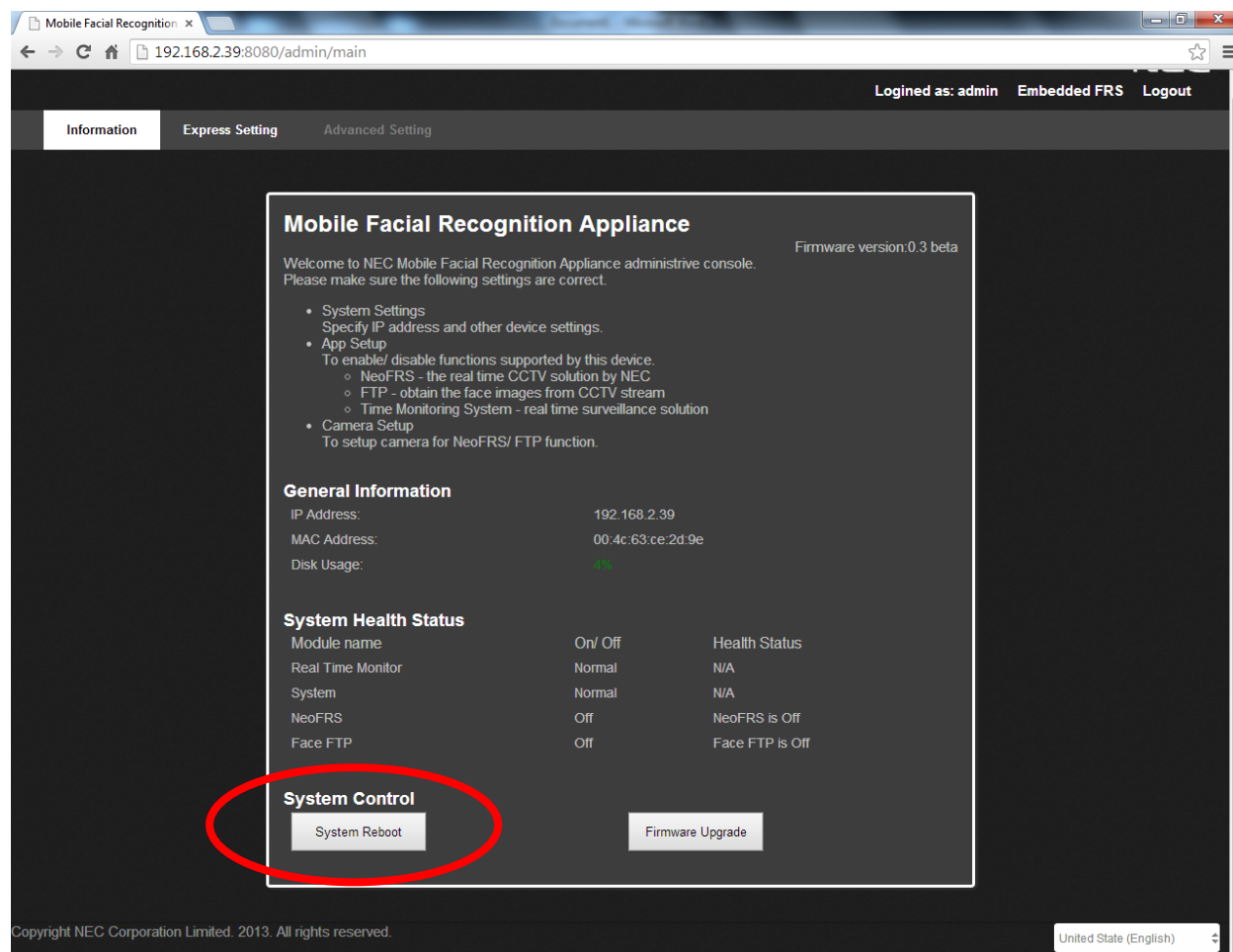
Start Date: 2014/01/22 Trace level: WARN Search

Date time	Trace level	Username	Type	Description
2014-01-22 16:53:11	WARN	admin	System	Update Cam setting: TypeCamId: Axis VideoUri: rtsp://192.168.2.96:554/axis-media/media.amp?resolution
2014-01-22 16:53:10	WARN	admin	System	Update Cam Face Quality setting: MaxHeadNum: 5 minPixelBetweenEyes: 30 FaceQualityThreshold: 0.50
2014-01-22 16:51:32	WARN	admin	System	Update Cam setting: TypeCamId: Axis VideoUri: rtsp://192.168.2.96:554/axis-media/media.amp?resolution
2014-01-22 16:51:32	WARN	admin	System	Update Cam Face Quality setting: MaxHeadNum: 5 minPixelBetweenEyes: 30 FaceQualityThreshold: 0.34
2014-01-22 16:51:32	WARN	admin	System	Update Rtmon setting:
2014-01-22 16:51:32	WARN	admin	System	Update e-Mail setting: Enabled: false SmtptGatewayAddress: Port: 25 SmtptAuthType: SMTP SmtptLoginisA
2014-01-22 16:38:43	WARN	admin	System	Update Cam setting: TypeCamId: Sony VideoUri: rtsp://192.168.2.45/media/video1 MjpgUri: http://192.168
2014-01-22 16:38:43	WARN	admin	System	Update Cam Face Quality setting: MaxHeadNum: 5 minPixelBetweenEyes: 30 FaceQualityThreshold: 0.34
2014-01-22 16:38:43	WARN	admin	System	Update Rtmon setting:
2014-01-22 16:38:43	WARN	admin	System	Update e-Mail setting: Enabled: false SmtptGatewayAddress: Port: 25 SmtptAuthType: SMTP SmtptLoginisA
2014-01-22 16:37:33	WARN	SYSTEM	System	System start
2014-01-22 16:32:27	WARN	admin	System	Update Cam Face Quality setting: MaxHeadNum: 5 minPixelBetweenEyes: 30 FaceQualityThreshold: 0.34
2014-01-22 16:07:36	WARN	admin	System	Update Cam Face Quality setting: MaxHeadNum: 5 minPixelBetweenEyes: 30 FaceQualityThreshold: 0.50
2014-01-22 15:57:49	WARN	admin	System	Update Cam Face Quality setting: MaxHeadNum: 5 minPixelBetweenEyes: 30 FaceQualityThreshold: 0.50
2014-01-22 15:41:04	WARN	System	System	System resume from Capture Frame Error.
2014-01-22 15:39:59	WARN	admin	System	Update Cam setting: TypeCamId: Sony VideoUri: rtsp://192.168.2.45/media/video1 MjpgUri: http://192.168

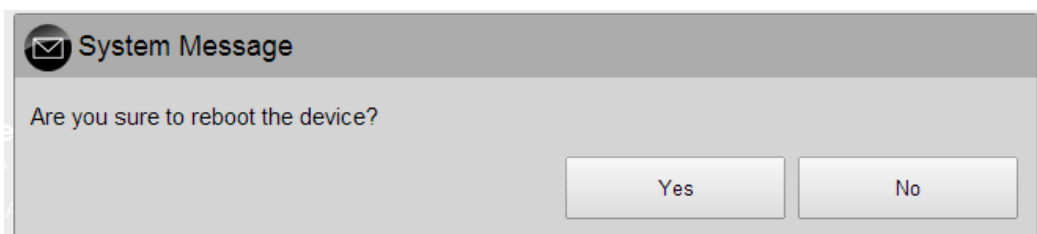
Admin user can check the system log via “Audit Log” page

4.4.3 System Reboot

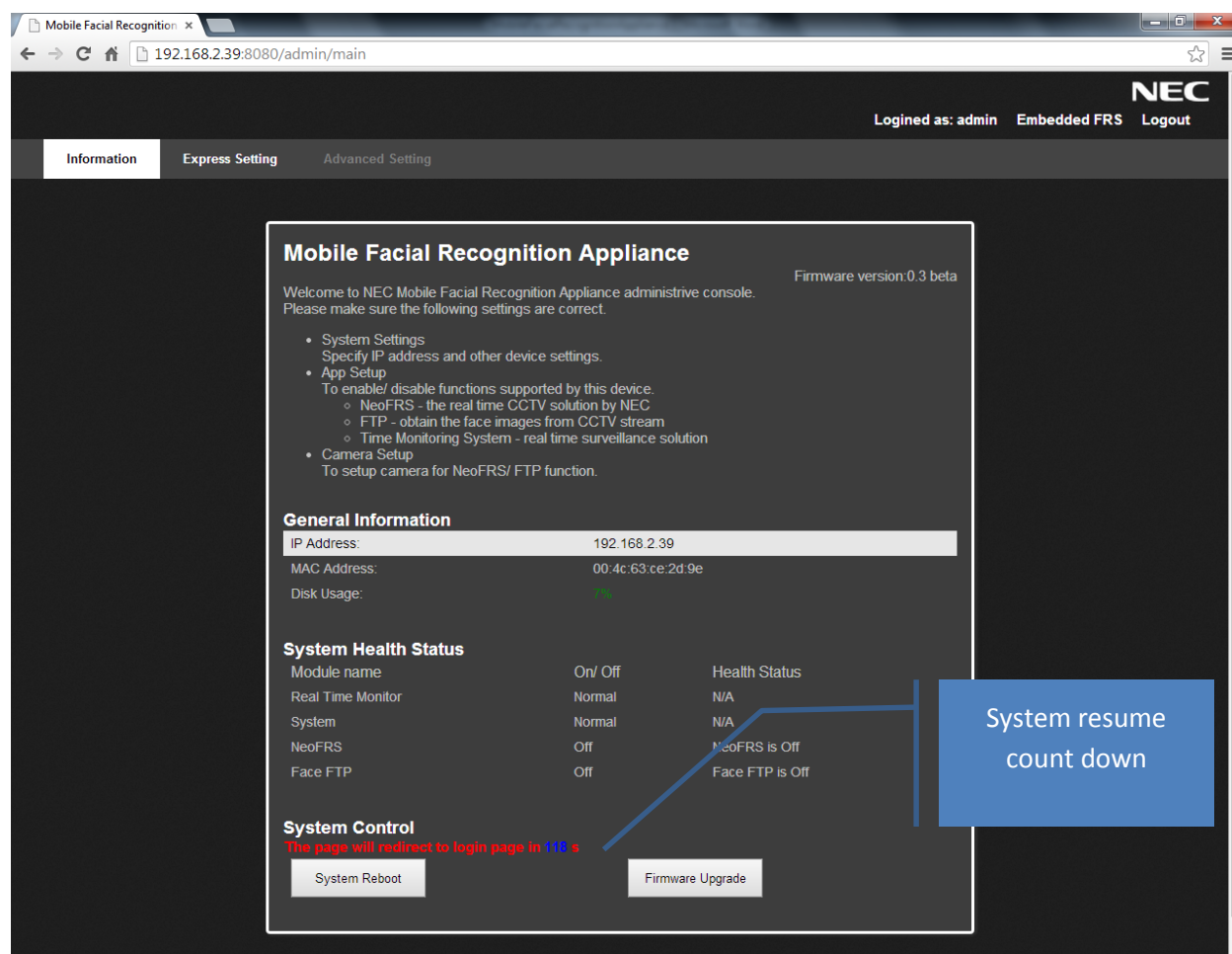
Software reboot can be performed via web interface. To trigger software reboot, please go to “Information” page and click “System Reboot” button. After the button is clicked, the system will be rebooted and the web page will redirect to login page after 120 seconds.



Admin user can perform system reboot via “Information” page



Confirmation dialog will be prompted if “Reboot” button is clicked.

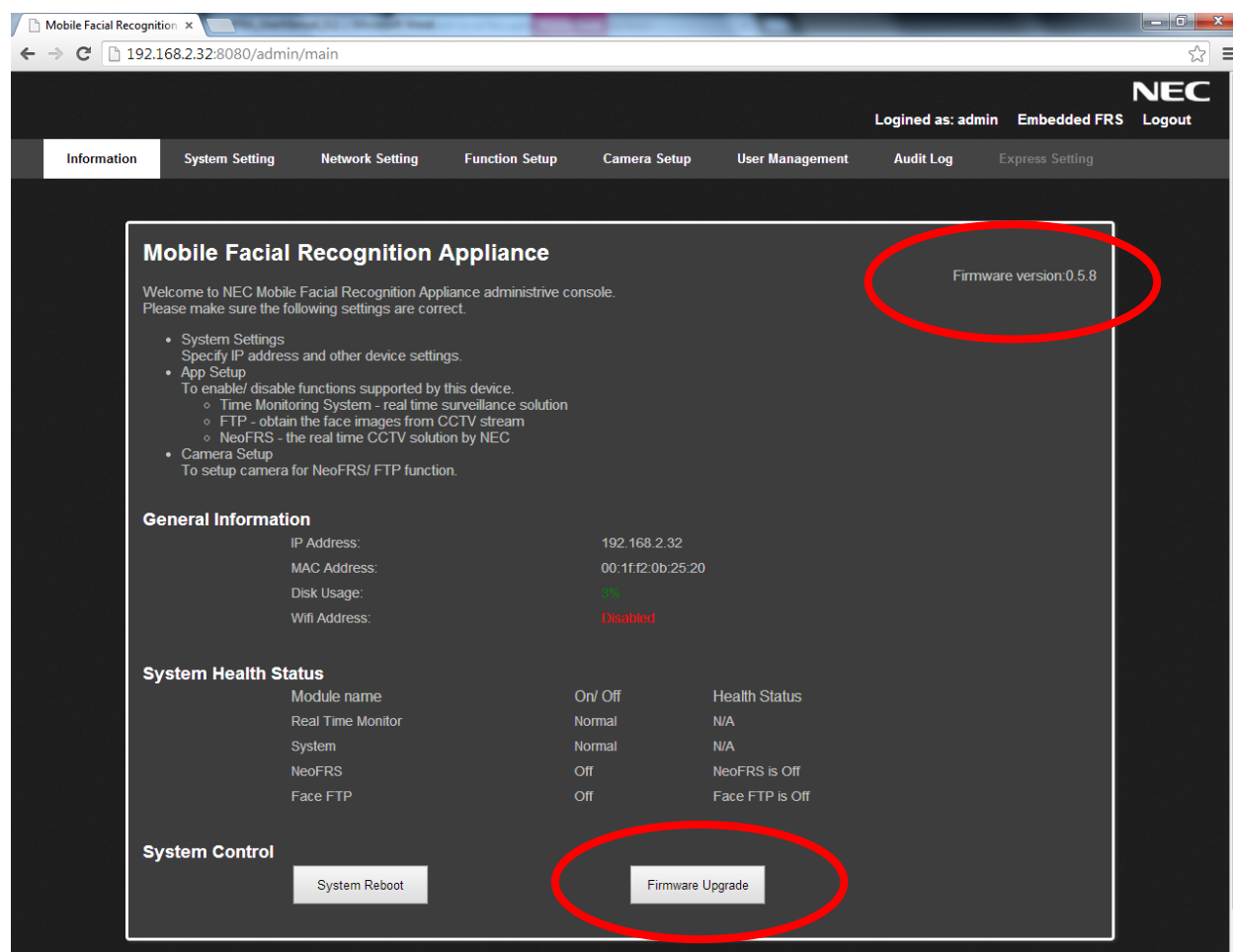


The page will redirect to login page automatically in 120 seconds.

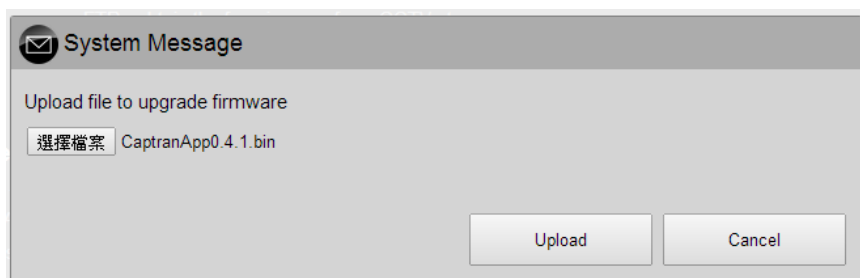
4.4.4 Firmware Upgrade

The firmware version can be found at the top right corner of "Information" page. To upgrade the firmware, please click the "Firmware Upgrade" button at the bottom and click upload after selecting the file via the dialog box. The system will be upgraded and the page will redirect to login page after 90 seconds.

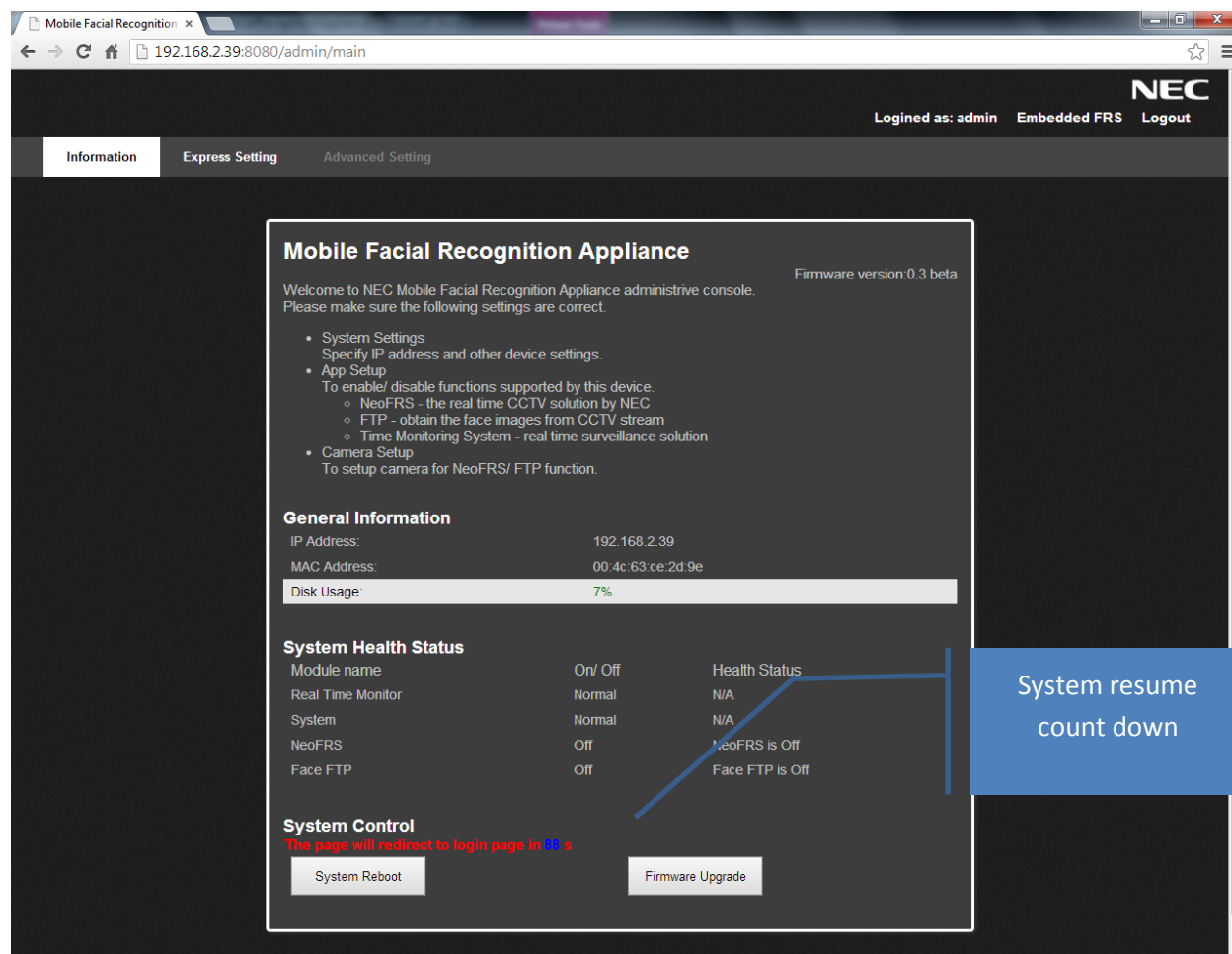
Buzzer "Beep" sound will be triggered, if the update procedure is started. If the system update and restart successfully, another "Beep" sound will be triggered.



Admin user can perform firmware upgrade via “Information” page and the current firmware version can be obtained at the top right corner of the page.



File upload dialog will be prompted if “Firmware Update” button is clicked. After selecting the new firmware file, click “Upload” button to continue the firmware update.



The page will redirect to login page automatically in 90 seconds.

4.4.5 Date Time Settings

Date & Time settings can be modified via “System Setting” page.

4.4.5.1 Update Time Zone & NTP Service Provider

Parameters	Description
Server Time Zone	The time zone of the server, which can be selected via combo box
Synchronized with NTP server	If it is checked, the system will synchronize the system time with provide NTP service provider periodically
NTP Server Address	The NTP service provider URL

The settings will be effective after the “Save” button is clicked.

4.4.5.2 Synchronize the system time with local PC

Click “Sync with PC” button to synchronize the system time with local PC.

System Setting:

Date Time:

Server Time Zone: Afghanistan

Current Server Date Time: 21/04/2015 11:10:20

PC Date Time: 21/04/2015 11:10:28

Synchronized with NTP server: ☒

NTP Server Address: stdtime.gov.hk

E-mail notifications

e-mail notification: ☐

Factory Reset

Enable: ☐

Buttons: Save, Reset, Sync with pc

Callout 1: Click this button to synchronize the time with local PC (points to Sync with pc button)

Callout 2: Click this button to save the setting (points to Save button)

Admin user can change the date time setting via “System Setting” page

4.4.6 E-mail Notifications

The system provide e-mail notifications feature, there are 3 kinds of email alert.

- System alert
E-mail alert will be sent to predefined e-mail list : “System Mail List”, if system alert such as “Frame capture failed”, “System startup” is occurs by the system.
- Hit record alert for white list
Email alert will be sent to predefined e-mail list, if white listed person is matched in real time monitoring system.
- Hit record alert for black list
Email alert will be sent to predefined e-mail, if black listed person is matched in real time monitoring system.

To enable the e-mail notification, please check the “e-mail notification” and fill in the mail server gateway information. The system support both SMTP and TLS protocol.

For the email list, please input one email address on each line of the textbox as shown as the screenshot below.

The system will sent the testing mail to all listed e-mail account, if the “Email Alert Test” button is clicked. To make the settings effective, please click “Save” button at the bottom of the page.

System Setting:

Date Time:
Server Time Zone: Afghanistan
Current Server Date Time: 21/04/2015 11:17:57
PC Date Time: 21/04/2015 11:18:07 Sync with pc
Synchronized with NTP server: ☒
NTP Server Address: stdtime.gov.hk

E-mail notifications
e-mail notification: ☒
SMTP Gateway Address: 192.168.2.21
Port: 25
SMTP Server Protocols: SMTP
Sender Address: user@email.com
Login Id:
Login Password:
Anonymous Login: ☐
System Mail List: admin@email.com
Time Monitoring List (White List): whitelist@email.com
Time Monitoring List (Black List): blacklist@email.com
Email Alert Test:
Factory Reset: Enable: ☐
Save Reset

System Mailing List
Search Hit (White List) Mailing List
Search Hit (Black List) Mailing List

4.4.7 Factory Reset Enable Setting

The screenshot shows the NEC web interface for the Mobile Facial Recognition Appliance. The top navigation bar includes 'Information', 'System Setting', 'Network Setting', 'Function Setup', 'Camera Setup', 'User Management', 'Audit Log', and 'Express Setting'. The 'System Setting' tab is active. The 'System Setting' section contains the following fields:

- Date Time:**
 - Server Time Zone: Afghanistan (dropdown)
 - Current Server Date Time: 21/04/2015 11:40:04
 - PC Date Time: 21/04/2015 11:40:05 (with a 'Sync with pc' button)
 - Synchronized with NTP server: ☐
 - NTP Server Address: (empty text field)
- E-mail notifications**
 - e-mail notification: ☐
- Factory Reset**
 - Enable: ☒

At the bottom of the 'Factory Reset' section are 'Save' and 'Reset' buttons. A blue confirmation box on the right states 'Ticked to enable.' The footer of the interface shows 'Copyright NEC Corporation Limited. 2013. All rights reserved.' and 'United State (English)'.

If Factory Reset is enabled, factory reset will be performed after 10 failed password attempts. It helps protect the sensitive data stored in appliance.

4.4.8 Network Settings

The screenshot shows the 'Network Setting' page of the NEC Mobile Facial Recognition Appliance web interface. The browser address bar shows '192.168.2.107:8080/admin/main'. The interface has a top navigation bar with 'Information', 'System Setting', 'Network Setting' (selected), 'Function Setup', 'Camera Setup', 'User Management', 'Audit Log', and 'Express Setting'. The 'Network Setting' section is divided into 'General' and 'LAN network:'. Under 'General', the 'Device name:' is set to 'MFRA'. Under 'LAN network:', the 'MAC Address:' is '00:1f:f2:0b:25:1e'. The 'Obtain IP address via DHCP' radio button is selected. The 'Using the following IP address:' radio button is also selected, with the 'IP address:' set to '192.168.2.107', 'Subnet Mask:' set to '255.255.255.0', and 'Default Gateway:' set to '192.168.2.1'. The 'DNS server address via DHCP' radio button is selected, with the 'the following DNS server address:' radio button also selected. The 'Primary DNS server:' is set to '205.252.144.126' and the 'Secondary DNS server:' is set to '218.102.62.71'. There are 'Save' and 'Reset' buttons at the bottom of the form. The 'Wifi Interface' section has an 'Enable Wifi:' checkbox which is currently unchecked. The footer shows 'Copyright NEC Corporation Limited. 2013. All rights reserved.' and a language dropdown set to 'United State (English)'.

4.4.8.1 Change Device Name

To update the device name (hostname), update the “Device name” textbox and click “Save” to confirm.

4.4.8.2 LAN Network Setup

Obtain IP via DHCP

- Select “Option IP address via DHCP” radio button

Obtain DNS server address via DHCP

- Select “DNS server address via DHCP” radio button

Use Static IP Address

- Select “Using the following IP address” radio button
- Input the “IP address”, “Subnet mask” and “Default gateway” textboxes

Manual input DNS server address

- Select “Using the following DNS server address” radio button
- Input the “Primary DNS server” and “Secondary DNS server” textboxes

After complete updating LAN network setting, click “Save” to confirm the changes.

4.4.8.3 WIFI Setup

To enable WIFI interface, please follow the instructions below:

1. Plug in the WIFI receiver to the USB port of the appliance.
2. Navigate to “Admin->Network Setting”. In the Wifi Interface section, check the checkbox “Enable WIFI”. The appliance will search for the WIFI access point automatically and update the network setup page directly.
3. Select the WIFI access point from the “Access Point List”
4. Enter the key of the access point and click “Save & Connect”
5. *If the appliance connects to the access point successfully, the IP Address will be shown.*

SSID	Security
NECHK	WPA
linksys_SES_55101	WPA
private_nw	WPA
TP-LINK_9E3A0A	WPA
LAN_T	WEP
LAN_X2	WEP
LAN_X3	WEP
LAN_A_AP	WEP
LAN_X1	WEP

After selecting the access point, enter the key and click “Save & Connect”

Wifi Interface

Enable Wifi: ☒

Access Point List:

SSID	Security
NECHK	WPA
linksys_SES_55101	WPA
private_nw	WPA
TP-LINK_9E3A0A	WPA
LAN_T	WEP
LAN_X2	WEP
LAN_X3	WEP
LAN_A_AP	WEP
LAN_X1	WEP

connected wifi

SSID: "NECHK"

IP Address: 192.168.2.58

Wifi Config:

SSID: NECHK

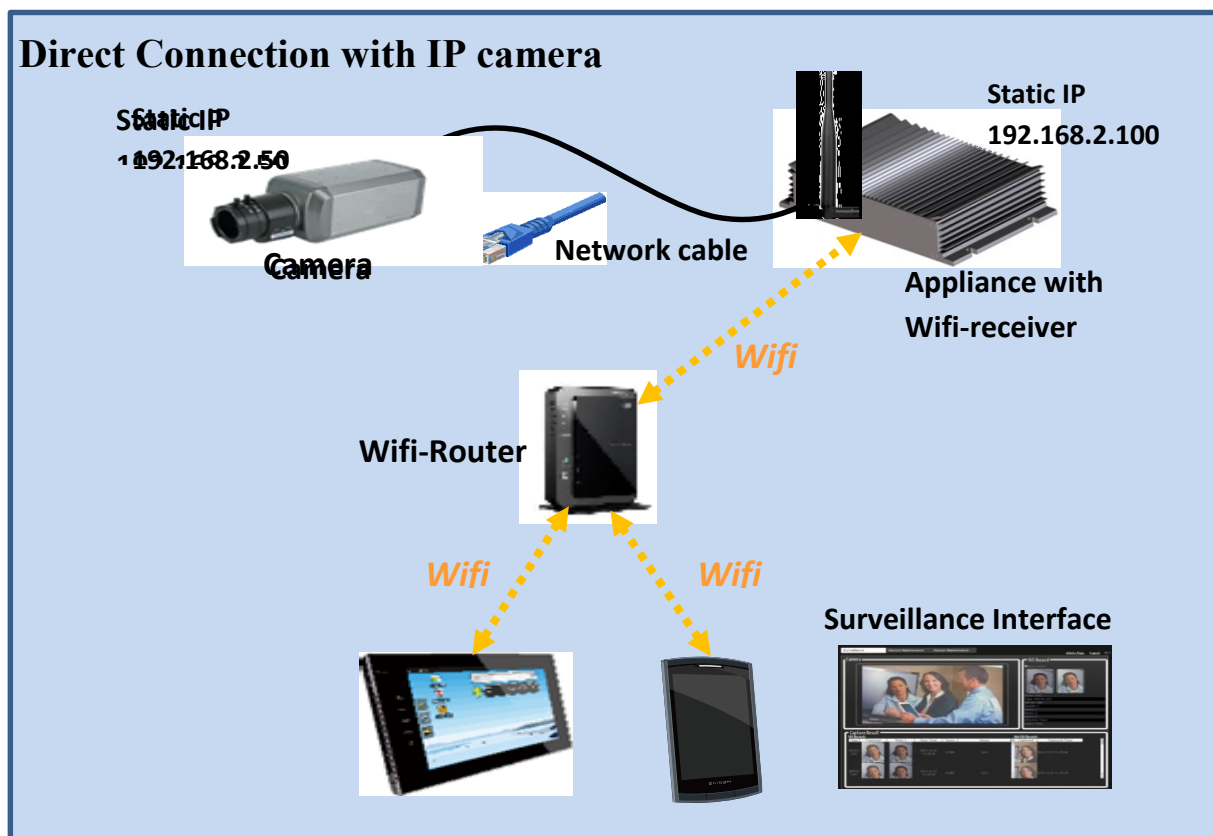
Security Type: WPA

WPA Key: *****

Save & Connect

If the appliance connects to the access point successfully, the IP Address will be shown.

4.4.8.4 Direct Connection with IP Camera



Direct connection between IP Camera and Appliance

The IP camera can be connected to the appliance directly, if WIFI is enabled (as shown as diagram above). To achieve this architecture, the setup procedures are as follow:

1. Follow section [3.4.8](#) setup the camera and enable the option “Preview Redirect”
2. Follow section [3.4.7.3](#) setup the WIFI network.
Remark: The network group WIFI network MUST NOT be same as LAN network which is used for direct connection with IP camera.
3. Connect the IP camera with the appliance directly as shown as the diagram above.
4. Access the appliance by the IP of WIFI network.

4.4.9 Camera Setup

Live CCTV Camera can be setup through “Admin->Camera Setup” Menu. The system supports IP cameras with H.264 or motion jpeg streaming. The system supports IP cameras with H.264 or motion jpeg streaming.

4.4.9.1 Camera Settings

The default “Camera Type” is set to “Custom”, the parameters are as follows:

Parameters	Description
IP Camera Url	URL to access the IP camera
Capture Delay	The capture interval between frames. Default is set to 300 ms.
Preview Type	The type of the preview URL, either static jpeg(H.264) or motion jpeg streaming
Preview Url	Url to preview the camera at Surveillance page. It is for viewing purpose only.
Static Jpeg Refresh Interval	The refresh interval of static jpeg in the surveillance page. Default is set to 20. (Shown when Preview Type is set to Static Jpeg)
Preview Redirect	To redirect the preview source from the appliance, instead of allowing the appliance to be connected directly to the IP camera source. It is usually used when “Direct Connection with IP camera” is used (section 3.4.7.4). If it is set, user can access the home page of IP camera by URL <code>http://<ip address>>:8282</code> .

Please check the IP camera manual for the URL.

Here is the list of cameras which are being tested and predefined camera type can be used for ease of setup. For the detail recommendation regarding the supported cameras, please refer to Appendix A – G.

Brand Name	Model	Camera Type	Resolution
AXIS	P1346 P1355	AXIS Camera	1920 x 1080
Panasonic	WV-SP508E	Panasonic Camera	1920 x 1080
Sony	SNC-CH240	Sony Camera	1920 x 1080
Hikvision	DS-2CD854F-EW	Hikvision Camera	1280 x 720
Samsung	SNO-6011R	Samung Camera	1920 x 1080
Bosch	NBN-832V-IP	Bosch Camera	1920 x 1080

Camera Settings:

Camera Type: Custom

IP camera Url: rtsp://192.168.2.96:554/axis-media/media.amp?resolution=1920x1080

Capture Delay (200ms - 5000ms): 300

Preview Type: Static Jpeg

Preview Url: http://192.168.2.96/axis-cgi/mjpg/video.cgi?resolution=640x360

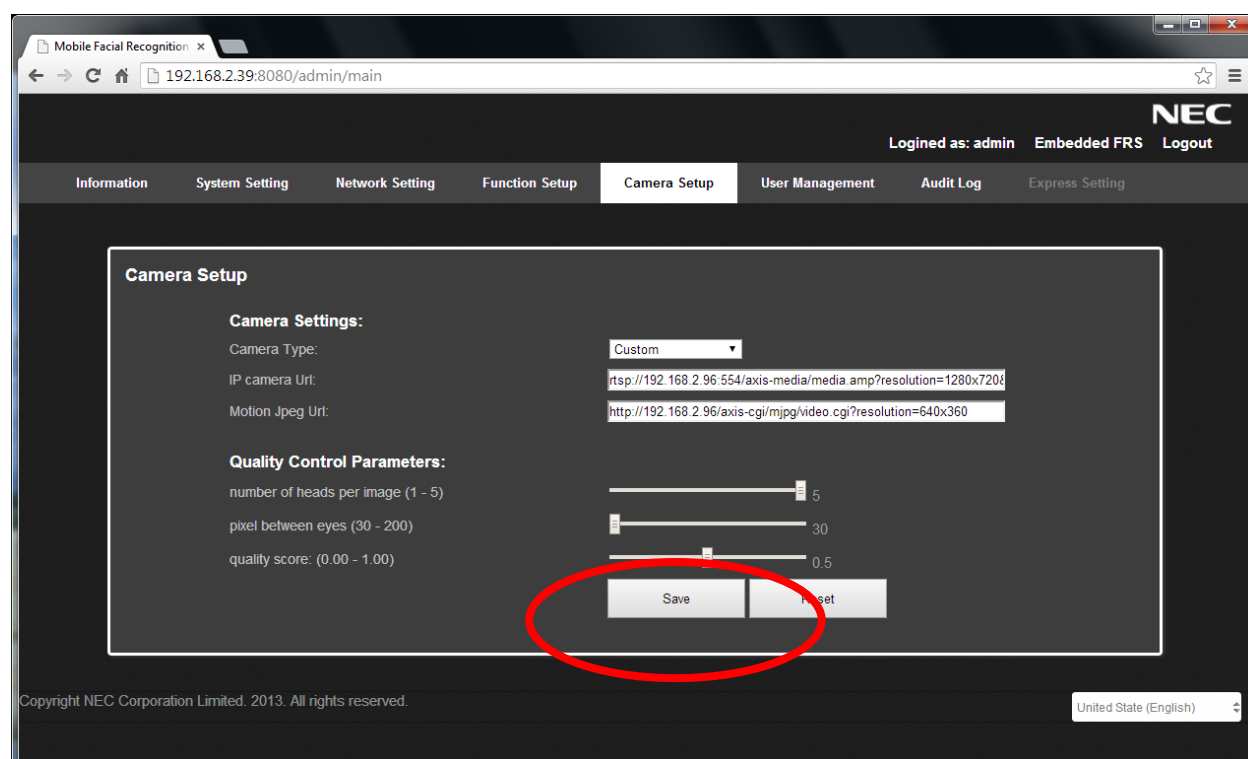
Static jpeg refresh interval: 20

Preview Redirect:

4.4.9.2 Quality Control Parameters

Some facial quality control parameters can be set in camera setup, which is used for fine tuning the sensitivity for face detection.

Parameters	Range	Description
Max number of heads per image	1 – 5	Max number of heads can be detected in the screen.
Min pixel between eyes	30 – 200	Min pixel between eyes for detected face, if the pixel between eyes of the faces is smaller than this value, the face cannot be detected.
Face quality score	0.00 – 1.00	Face quality threshold score for face detection. For any face detected in image, face quality score will be given by the system. If the face score is larger than this value, the face image will be qualified to continue the further action. (e.g. real time monitoring)



4.5 Integrated Real Time Monitoring System

Working with IP camera stream, the system can be used as real time monitoring system. Images can be obtained from the live stream of IP camera and the system will perform facial matching against the internal enrolled person record. The system will alert for and hit/ not hit case for user further action.

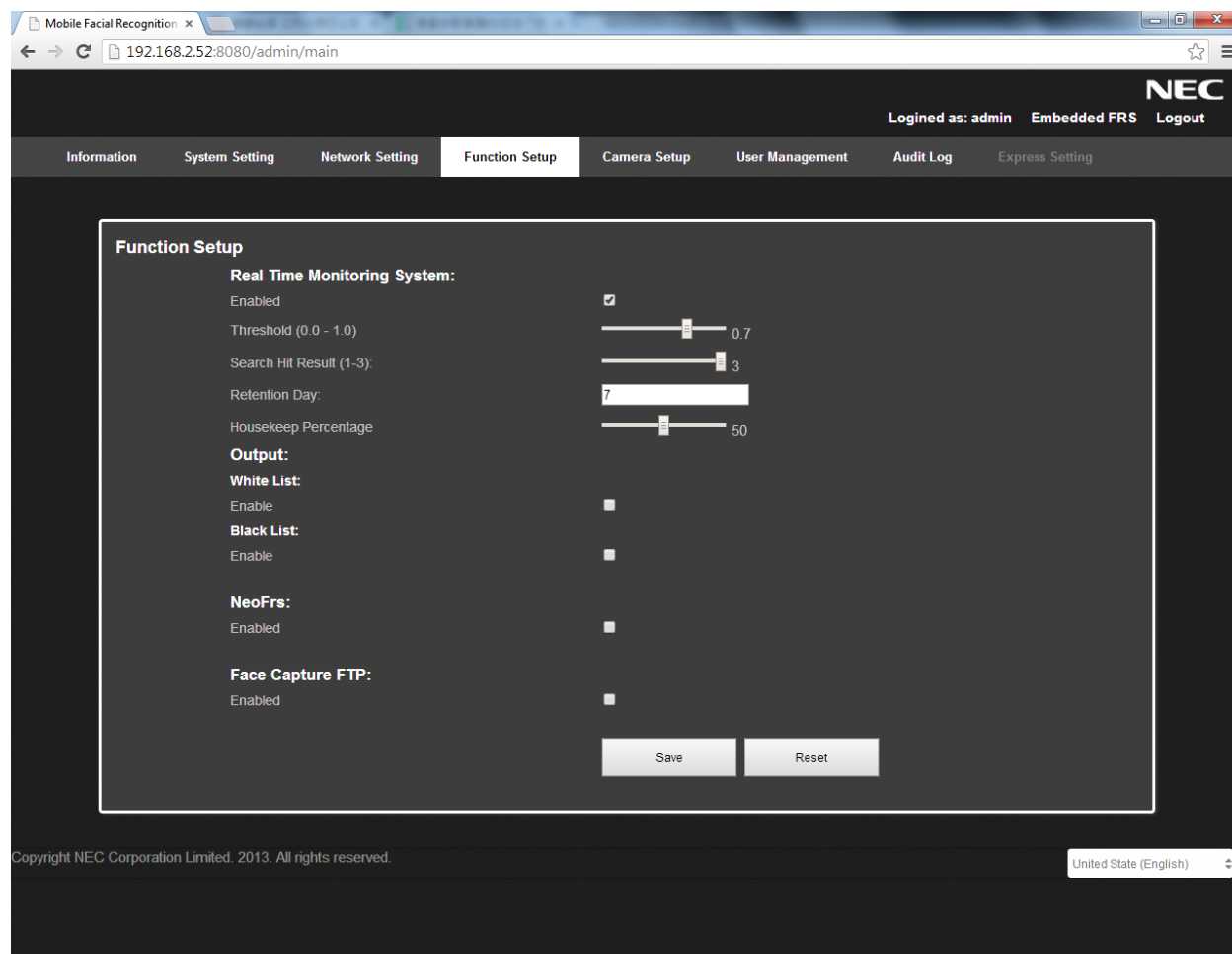
4.5.1 Real Time Monitoring System Settings

The real time monitoring function can be enabled via “Function Setup” page. Check the “Enabled” checkbox for enabling the system.

Here are the descriptions of real time monitoring system options:

Parameters	Description
Threshold	The facial matching threshold for the real time monitoring system. If any one of face matching score between live face image and database face image is larger than the threshold, search hit will be generated. Otherwise, not hit record will be generated instead.
Max Search Hit Result	Max number of hit photos e.g. if 6 hit photos is obtained from one hit case, while “Max Search Hit Result” is set to 3. Only 3 matched photos (with the highest score) will be saved in database.
Retention Day	The retention period in days. If the search record is expired, the system will remove the data automatically.
Housekeep Percentage	Alternative mechanism for search record retention, if search record database size reach the housekeep percentage (e.g. 50 %), the system will start remove the oldest data automatically. The current search record database size can be obtained at “Admin->Information” page.

To make the settings effective, please click “Save” button at the bottom of the page.



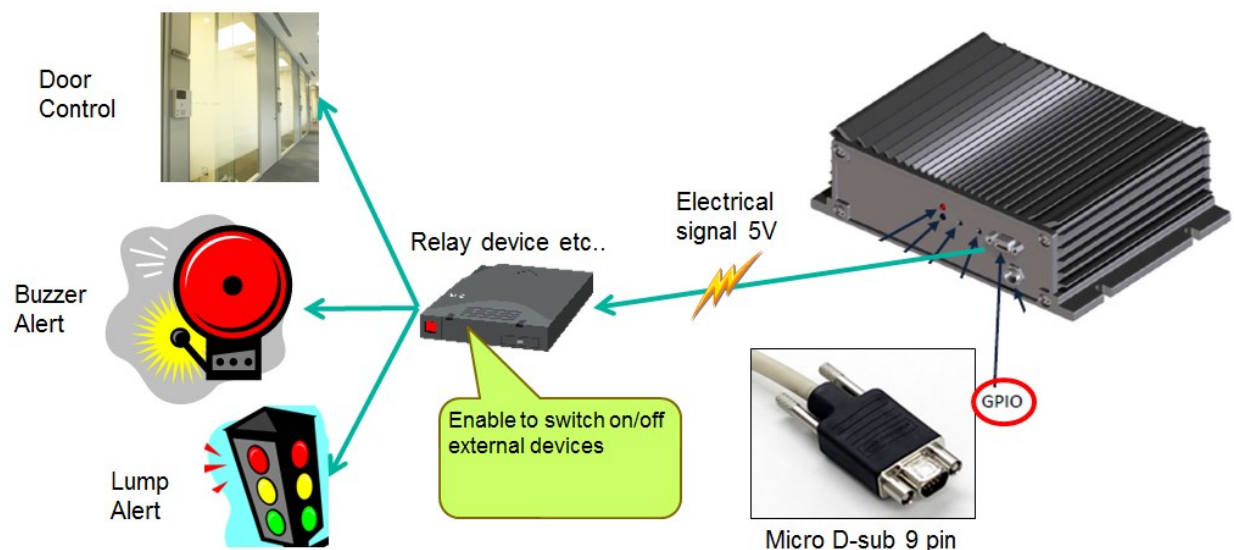
Real time Monitoring System Settings can be found under “Function Setup” page

4.5.2 Trigger External Device

External device can be triggered by black/ white list hit. The external device can be connected to the appliance with the GPIO.

The pin assignment are as follow:

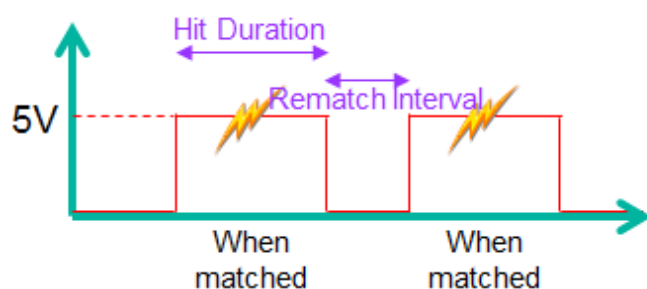
White List Hit	Pin 02
Black List Hit	Pin 04



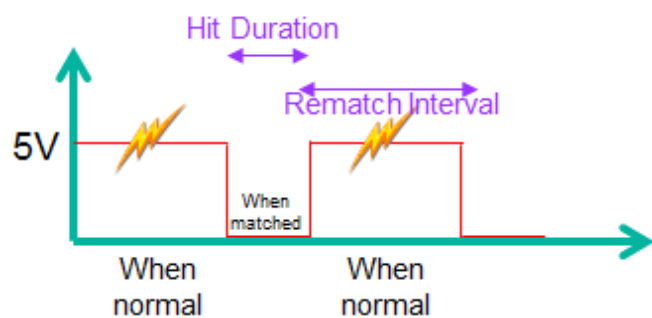
The appliance can trigger external device with the provided GPIO.

The external device setting can be enabled under the section “Output” at “Function Setup” page. The White List Hit Trigger and Black List Trigger can be individually enabled. The parameters for the trigger are as follow.

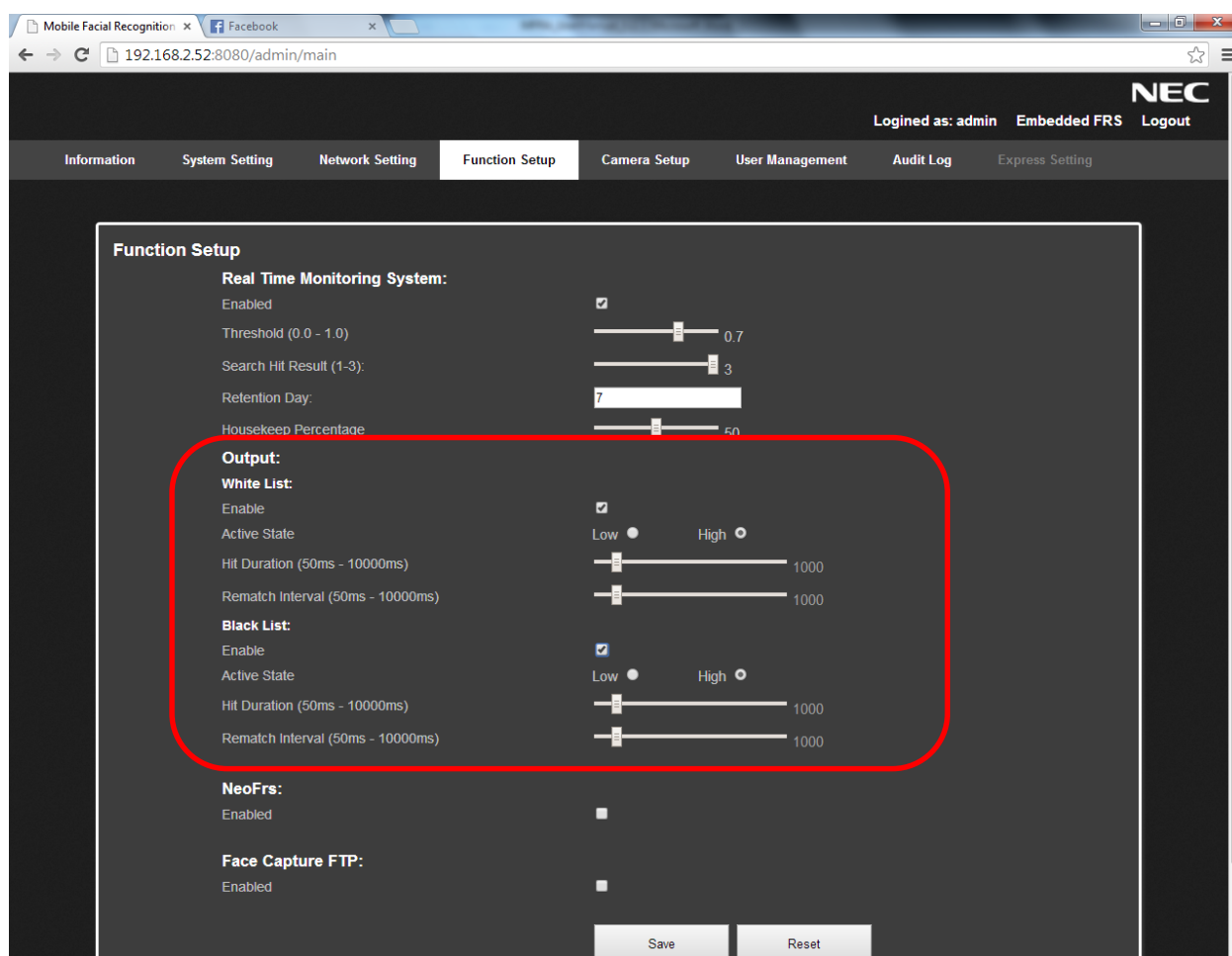
Parameters	Description
Active State	Define the output voltage for the hit case
Hit Duration (ms)	How long will the voltage kept during white list/ black list hit
Rematch Interval (ms)	How long will the voltage be retrigged, if same person hit the list again.



Active State is set to “High”



Active State is set to "Low"

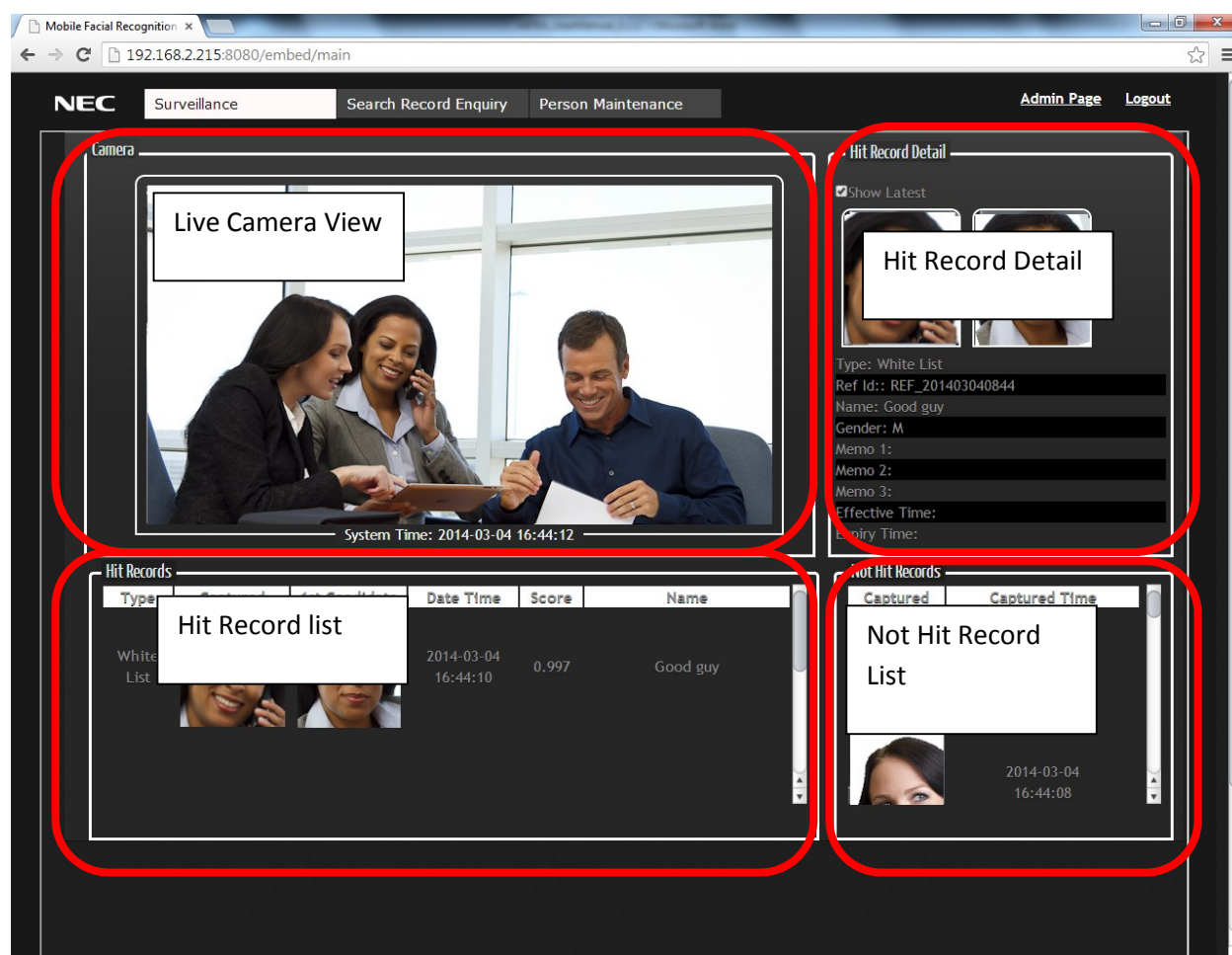


Output setting can be found under "Function Setup" page

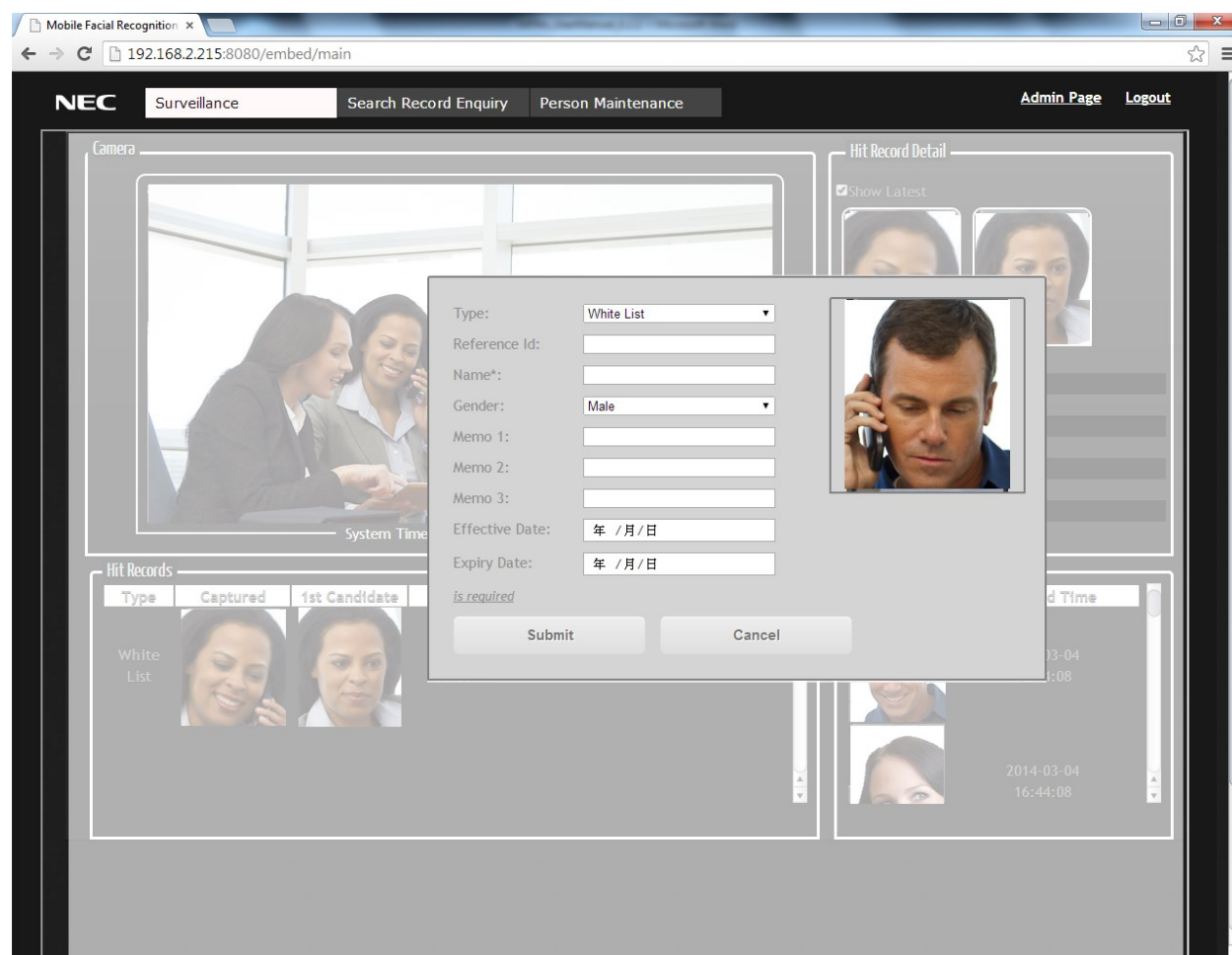
4.5.3 Surveillance

There are 4 panels in “Surveillance” page.

- Camera
 - Display the live camera streaming
- Hit Record Detail
 - Show the hit record detail
 - If “Show Latest” is checked, then it will update automatically according to the new hit record
- Hit Records
 - Instant hit records
 - If the hit record row is clicked, the detail information will be shown at “Hit Record Details”
- Not Hit Records
 - Instant not hit records
 - User can enroll the not hit record by clicking the image



Surveillance page can be found under Embedded FRS menu



Enroll a person from Not Hit List

4.5.4 Person Maintenance

4.5.4.1 Person List Navigation

The screenshot shows the 'Person Maintenance' page of the NEC Mobile Facial Recognition Appliance. The page is divided into two main sections: 'Person Information' on the left and 'Person Maintenance' on the right. The 'Person Information' section includes a photo of a woman, a 'Replace image from:' section with 'File', 'IP Cam', and 'Camera' buttons, and form fields for 'Type' (set to 'Black List'), 'Reference No.' (REF_20140304081607), 'Name' (o), 'Gender' (Female), and 'Effective Date' (2014/03/04). The 'Person Maintenance' section features a table with columns: Type, Id, Ref, Name, Gender, Effective Date, and Expiry Date. The table lists 18 records, including 'White List' and 'Black List' entries. Annotations with blue callouts provide instructions: 'Edit the columns list for display' points to the 'Import' button; 'Apply Filter to find specific person' points to the 'Apply Filter' button; 'Show the person detail if a person row is clicked' points to a row in the table; 'Total number of enrolled persons' points to the 'Total Records: 18' text; and 'Switch to different page' points to the page number '1'.

Person Information

Person Maintenance

Enrol Apply Filter Refresh Edit Columns Import Export

Type	Id	Ref	Name	Gender	Effective Date	Expiry Date
White List		REF_2014030409...	Good guy	M		
White List		REF_2014030408...	Good			
White List		REF_2014030408...	Hallo			
White List		REF_2014030408...	Hallo			
White List		REF_2014030408...	Hallo			
Black List		REF_2014030408...	o		2014-03-04	2014-03-20
Black List		REF_2014030408...	z	F	2014-03-03	2014-03-18
Black List		REF_2014030408...	m	M	2014-03-03	2014-03-18
Black List		REF_2014030408...	o	F	2014-03-05	2014-03-20
Black List		REF_2014030408...		F	2014-03-03	2014-03-18
Black List		REF_2014030408...		F	2014-03-05	2014-03-20
Black List		REF_2014030408...		F	2014-03-03	2014-03-18
Black List		REF_2014030408...		M	2014-03-10	2014-03-28
White List		REF_2014030403...	Tommy	M	2014-03-07	2014-03-29
White List		REF_2014030403...	Wayne	M	2014-03-24	2014-03-24
White List		REF_2014030403...	Brain	M	2014-03-24	2014-03-24
White List		REF_2014030403...	Tiffany	M	2014-03-24	2014-03-24

Replace image from: File IP Cam Camera

Type: Black List

Reference No: REF_20140304081607

Name: o

Gender: Female

Memo 1:

Memo 2:

Memo 3: c

Effective Date: 2014/03/04

Expiry Date: 2014/03/20

Submit Remove

1

Total Records: 18

Edit the columns list for display

Apply Filter to find specific person

Show the person detail if a person row is clicked

Total number of enrolled persons

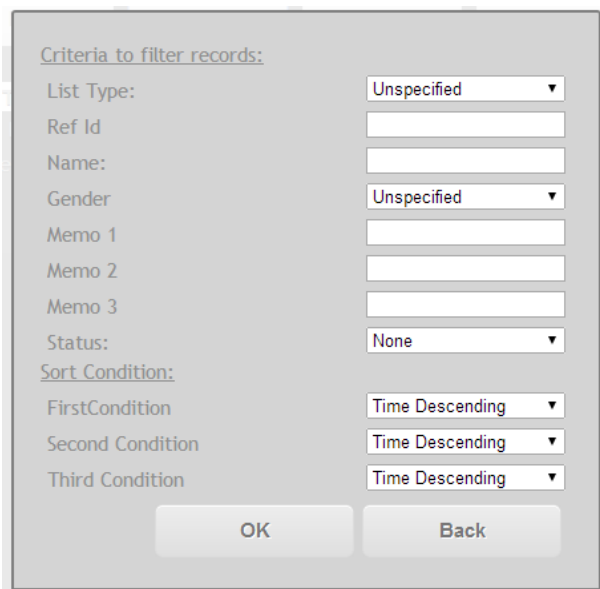
Switch to different page

Person Maintenance page can be find under Embedded FRS menu.

Applying Search Filter

To locate a person from a large list, filter can be applied. Filter dialog will be prompted, if “Apply Filter” button is clicked.

Person Filter	
List Type	Person list type filter <ul style="list-style-type: none"> • White List or • Black List
Reference ID	The text filter of reference ID If it is applied, only the person with “reference ID” containing the exactly matched string will be shown at person maintenance list.
Name	The text filter of name If it is applied, only the person with “name” containing the exactly matched string will be shown at person maintenance list.
Gender	Gender filter <ul style="list-style-type: none"> • Male • Female
Memo 1	The text filter of memo 1 If it is applied, only the person with “memo 1” containing the exactly matched string will be shown at person maintenance list.
Memo 2	The text filter of memo 2 If it is applied, only the person with “memo 2” containing the exactly matched string will be shown at person maintenance list.
Memo 3	The text filter of memo 3 If it is applied, only the person with “memo 3” containing the exactly matched string will be shown at person maintenance list.
Status	Effective/ Expiry Status filter <ul style="list-style-type: none"> • Active • Expired • Pending
Sort Condition	
First Condition	The first sorting condition, the search result can be sorted by Time, Ref ID, Name, Gender, List Type, Memo 1, Memo 2 or Memo 3 in either ascending or descending order
Second Condition	The second sorting condition, the search result can be sorted by Time, Ref ID, Name, Gender, List Type, Memo 1, Memo 2 or Memo 3 in either ascending or descending order
Third Condition	The third sorting condition, the search result can be sorted by Time, Ref ID, Name, Gender, List Type, Memo 1, Memo 2 or Memo 3 in either ascending or descending order



Criteria to filter records:

List Type: Unspecified ▼

Ref Id:

Name:

Gender: Unspecified ▼

Memo 1:

Memo 2:

Memo 3:

Status: None ▼

Sort Condition:

FirstCondition: Time Descending ▼

Second Condition: Time Descending ▼

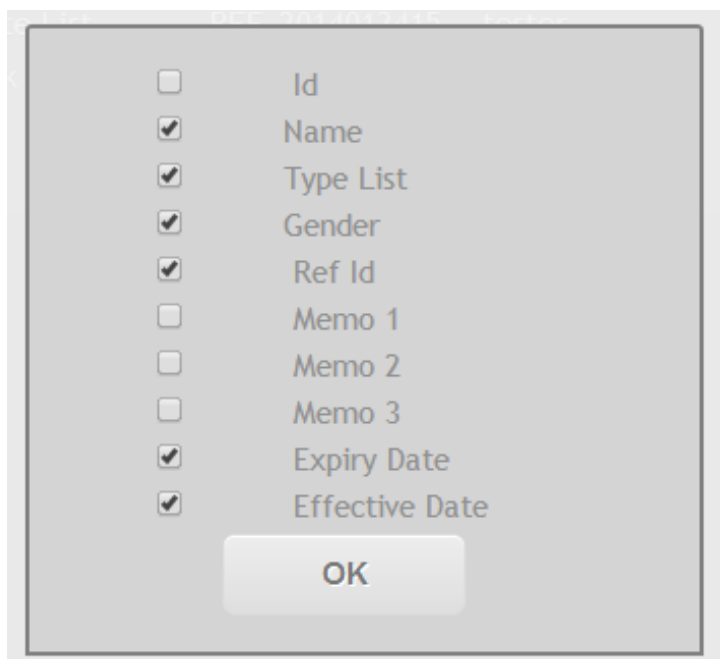
Third Condition: Time Descending ▼

OK Back

Search Filter Dialog

Applying Search Filter

To customize the person list view, the columns of the person can be selected. If “Edit Columns” button is click, the following dialog will be shown. The person list view will show the information according to the columns selection.



☐ Id

☒ Name

☒ Type List

☒ Gender

☒ Ref Id

☐ Memo 1

☐ Memo 2

☐ Memo 3

☒ Expiry Date

☒ Effective Date

OK

Edit Columns Dialog

4.5.4.2 *Enroll Person*

To enroll a new person record

1. Click the “Enroll Person” button
2. Select the photo by one of the following method:
 - a. Capture from camera
 - USB Camera
 - Available only at PC
 - b. Capture from IP Camera
 - Capture from the IP Camrea defined in Camera Settings
 - c. Load from file
 - Load a jpeg file from the OS
3. Input the person information
4. Click Submitted to confirm the action

List of fields for person data

Field	Mandatory	Description
Type	Yes	Person List type, it should be either Black List or White List. If door control is enabled, when the white listed person is matched by the real time monitoring system, door on signal will be triggered.
Reference ID	No	Unique reference id for the person. If it is not set, the system will generate a reference id for the enrollment. This value cannot be changed after the person is enrolled.
Name	Yes	The name of person
Gender	No	Gender of person. Male or Female or Unspeific
Memo1	No	Any user defined string
Memo2	No	Any user defined string
Memo3	No	Any user defined string
Effective Date	No	Effective date of person record
Expiry Date	No	Expriy date of person record
Photo	Yes	Person photo for facial matching

1. Click "Enroll" to open enrollment popup

Type Id	Ref Id	Name	Gender	Effective Date	Expiry Date
White List	REF_2014030409...	Good guy	M		
White List	REF_2014030408...	Good guy	M		
White List	REF_2014030408...	Hello3	M		
White List	REF_2014030408...	Hello2	M		
White List	REF_2014030408...	Hello	M		
Black List	REF_2014030408...	o	F		2014-03-20
Black List	REF_2014030408...	z	F		2014-03-18
Black List	REF_2014030408...	m	M		2014-03-18
Black List	REF_2014030408...	o	F	2014-03-05	2014-03-20
Black List	REF_2014030408...	z	F		
Black List	REF_2014030408...	m	M	2014-03-03	2014-03-18
Black List	REF_2014030407...	o	F	2014-03-05	2014-03-20
Black List	REF_2014030407...	n	F		
Black List	REF_2014030407...	m	M	2014-03-03	2014-03-18
White List	REF_2014030403...	Tommy	M	2014-03-10	2014-03-28
White List	REF_2014030403...	Wayne	M	2014-03-07	2014-03-29
White List	REF_2014030403...	Brain	M	2014-03-24	2014-03-24
White List	REF_2014030403...	Tiffany	M	2014-03-24	2014-03-24

Total Records: 18

2. Choose the photo for the person

3. Input the person information

4. Click "Submit" button to enroll

Person Enrollment Dialog

4.5.4.3 Edit person information

To edit person record

1. Select a person at the “Person Maintenance” Panel, the person information detail will be displayed at “Person Information” on the right hand side “
2. Update the information at “Person Information” and click “Submit” to confirm the action.

NEC Surveillance Search Record Enquiry Person Maintenance Admin Page Logout

Person Information

Replace image from: File IP Cam Camera

Type: Black List

Reference Id: REF_20140304081607

Name: o

Gender: Female

Memo 1:

Memo 2:

Memo 3: c

Effective Date: 2014/03/04

Expiry Date: 2014/03/20

Submit Remove

Person Maintenance

Enrol Apply Filter Refresh Edit Columns Import Export

Type Id	Ref Id	Name	Gender	Effective Date	Expiry Date
White List	REF_2014030409...	Good guy	M		
White List	REF_2014030408...	Good guy	M		
White List	REF_2014030408...	Hello3	M		
White List	REF_2014030408...	Hello2	M		
White List	REF_2014030409...	Hello	M		
Black List	REF_2014030408...	o	F	2014-03-04	2014-03-20
Black List	REF_2014030408...	z	F		
Black List	REF_2014030408...	m	M		
Black List	REF_2014030408...	o	F		
Black List	REF_2014030408...	z	F		
Black List	REF_2014030408...	m	M		
Black List	REF_2014030407...	o	F	2014-03-05	2014-03-20
Black List	REF_2014030407...	n	F		
Black List	REF_2014030407...	m	M	2014-03-03	2014-03-18
White List	REF_2014030403...	Tommy	M	2014-03-10	2014-03-28
White List	REF_2014030403...			2014-03-07	2014-03-29
White List	REF_2014030403...			2014-03-24	2014-03-24
White List	REF_2014030403...			2014-03-24	2014-03-24

Total Records: 18

1. Click a person for editing

2. Edit the person information

Click submit the confirm

Person information edit

System Message

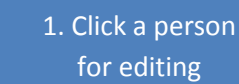
Update Person Information?

OK Cancel

Update person confirmation dialog

To update a person photo

1. Select a person at the “Person Maintenance” Panel, the person information detail will be displayed
2. Update the image by one of the image selection buttons



2. Update the image by one of the image selection buttons

User can update the photo by the image selection buttons at Person details

4.5.4.5 Delete Person

To delete person

1. Select a person at the “Person Maintenance” Panel, the person information detail will be displayed
2. Click “Remove” button at the bottom of the “Person Information” panel

Person Information

Replace image from:

File IP Cam Camera

Type: Black List

Reference Id: REF_20140304081607

Name: o

Gender: Female

Memo 1:

Memo 2:

Memo 3: c

Effective Date: 2014/03/04

Expiry Date: 2014/03/20

Submit Remove

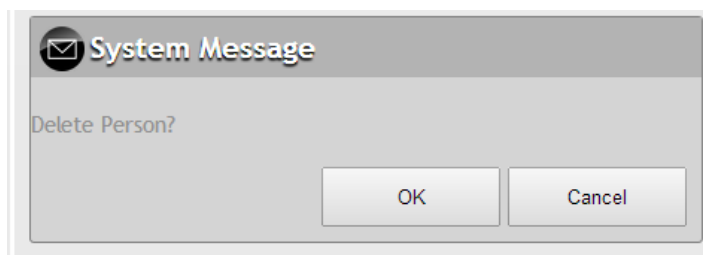
Person Maintenance

Enrol Apply Filter Refresh Edit Columns Import Export

Type Id	Ref Id	Name	Gender	Effective Date	Expiry Date
White List	REF_2014030409...	Good guy	M		
White List	REF_2014030408...	Good guy	M		
White List	REF_2014030408...	Hello3	M		
White List	REF_2014030408...	Hello2	M		
White List	REF_2014030408...	Hello	M		
Black List	REF_2014030408...	o	F	2014-03-04	2014-03-20
Black List	REF_2014030408...	z	F		
Black List	REF_2014030408...	m	M	2014-03-03	2014-03-18
Black List	REF_2014030408...	o	F		
Black List	REF_2014030408...	z	F		
Black List	REF_2014030408...	m	M		
Black List	REF_2014030407...	o	F		
Black List	REF_2014030407...	n	F		
Black List	REF_2014030407...	m	M	2014-03-03	2014-03-18
White List	REF_2014030403...	Tommy	M	2014-03-10	2014-03-28
White List	REF_2014030403...	Wayne	M	2014-03-07	2014-03-29
White List	REF_2014030403...	Brain	M	2014-03-24	2014-03-24
White List	REF_2014030403...	Tiffany	M	2014-03-24	2014-03-24

1. Click a person for editing

2. Click "Remove" to delete a person



Delete person confirmation dialog

4.5.4.6 Export & Import

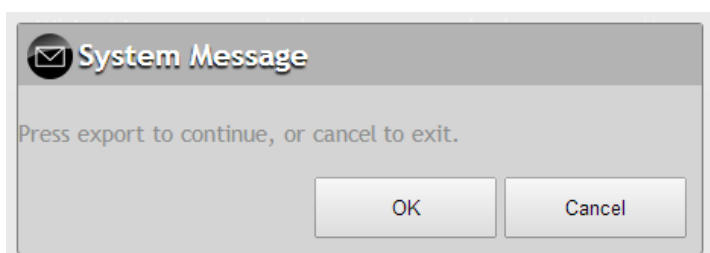
Enrolled person list can be exported to a XML file and import to the system, which can be useful for data backup, co-operation with multiple appliances or integrated with external system. For the xml schema, please refer to Appendix A: XML Schema for Data Export & Import.

Both Export & Import functions are only available for user with admin user type.

To Export Enrollment Database

1. Click “Export” button at the “Person Maintenance” panel.
2. The confirmation dialog will be prompted, click “OK” to continue the export.

The process may take a long time. It is recommended disabling all facial functions before start this action.



The xml file will be named in following format: <<hostname>>_<<export timestamp>>, and the timestamp will be in string format: “yyyy_MM_dd_hh_mm_ss”.

To Import Enrollment Database

1. Click “Import” button at the “Person Maintenance” panel
2. The file selection dialog will be prompted. After selecting the xml file, click “OK” to continue.
3. After “Import”, reboot is needed to refresh the database.

The process may take a long time. It is recommended disabling all facial functions before start this action.

4.5.5 Search Record Enquiry

The facial search record can be enquiry through “Search Record Enquiry” page. There are three enquiry types:

- Hit Record: The record store the facial image from camera which is matched against the enrolled person database
- Not Hit Record: The record store the facial image from camera which does not match against the enrolled person database
- Hit Ranking: The ranking statistics for Hit Record which summarize the number of hit records of enrolled person in database.

The screenshot shows the NEC Search Record Enquiry interface. At the top, there are tabs for 'Surveillance', 'Record Maintenance', and 'Person Maintenance', along with a 'Logout' link. The 'Enquiry Criteria' section includes 'Date From' (04/21/2015 12:00 AM) and 'Date To' (04/21/2015 11:59 PM). Below these are three radio buttons: 'Hit Record' (selected), 'Hit Ranking', and 'Not Hit Record'. To the right of these buttons are 'Advanced Criteria' and 'Export' buttons. A 'Search' button is located below the 'Advanced Criteria' button. The 'Enquiry Result' section displays a table with columns: 'Hit Time', 'Source ID', 'Hit Image', 'First candidate', 'Second candidate', and 'Third candidate'. Annotations with blue boxes and arrows point to various elements: 'Click "Advanced Criteria" to open "Advanced Criteria Dialog"' points to the 'Advanced Criteria' button; 'Click "Search" to perform searching' points to the 'Search' button; 'Time range criteria for enquiry' points to the date range fields; and 'Enquiry type selection' points to the radio buttons.

Hit Time	Source ID	Hit Image	First candidate	Second candidate	Third candidate
----------	-----------	-----------	-----------------	------------------	-----------------

Search Record Enquiry can be perform through “Search Record Enquiry” page

Criteria to filter users:

List Type:

RefId:

Name:

Gender:

Memo 1:

Memo 2:

Memo 3:

Status:

Matching Score: From: To:

Face Quality: From: To:

Sort Condition:

First Condition:

Second Condition:

Third Condition:

Advanced Search Criteria Dialog

Advanced Search Criteria		Remarks
List Type	Person list type filter <ul style="list-style-type: none"> • White List or • Black List 	Not available to "Not Hit Record"
Reference ID	The text filter of reference ID If it is applied, only the person with "reference ID" containing the exactly matched string will be shown at person maintenance list.	Not available to "Not Hit Record"
Name	The text filter of name If it is applied, only the person with "name" containing the exactly matched string will be shown at person maintenance list.	Not available to "Not Hit Record"
Gender	Gender filter <ul style="list-style-type: none"> • Male • Female 	Not available to "Not Hit Record"
Memo 1	The text filter of memo 1 If it is applied, only the person with "memo 1" containing the exactly matched string will be shown at person maintenance list.	Not available to "Not Hit Record"
Memo 2	The text filter of memo 2	Not available to "Not Hit Record"

	If it is applied, only the person with “memo 2” containing the exactly matched string will be shown at person maintenance list.	
Memo 3	The text filter of memo 3 If it is applied, only the person with “memo 3” containing the exactly matched string will be shown at person maintenance list.	Not available to “Not Hit Record”
Status	Effective/ Expiry Status filter <ul style="list-style-type: none">• Active• Expired• Pending	Not available to “Not Hit Record”
Matching Score	The range of matching score of the matched photo(s)	Not available to “Not Hit Record”
Face Quality	The range of face quality of query face image from camera	
Sort Condition		
First Condition	The first sorting condition, the search result can be sorted by Time, Ref ID, Name, Gender, List Type, Memo 1, Memo 2 or Memo 3 in either ascending or descending order	For “Not Hit Record”, the search result can be sorted by Time in either ascending or descending order.
Second Condition	The second sorting condition, the search result can be sorted by Time, Ref ID, Name, Gender, List Type, Memo 1, Memo 2 or Memo 3 in either ascending or descending order	Not available to “Not Hit Record”
Third Condition	The third sorting condition, the search result can be sorted by Time, Ref ID, Name, Gender, List Type, Memo 1, Memo 2 or Memo 3 in either ascending or descending order	Not available to “Not Hit Record”

4.5.5.1 Hit Record Enquiry

NEC Surveillance Search Record Enquiry Person Maintenance Admin Page Logout

Enquiry Criteria

Date From: 2014/03/04 上午 12:00 ☒ Hit Record ☐ Hit Ranking

Date To: 2014/03/04 下午 11:59 ☐ Not Hit Record

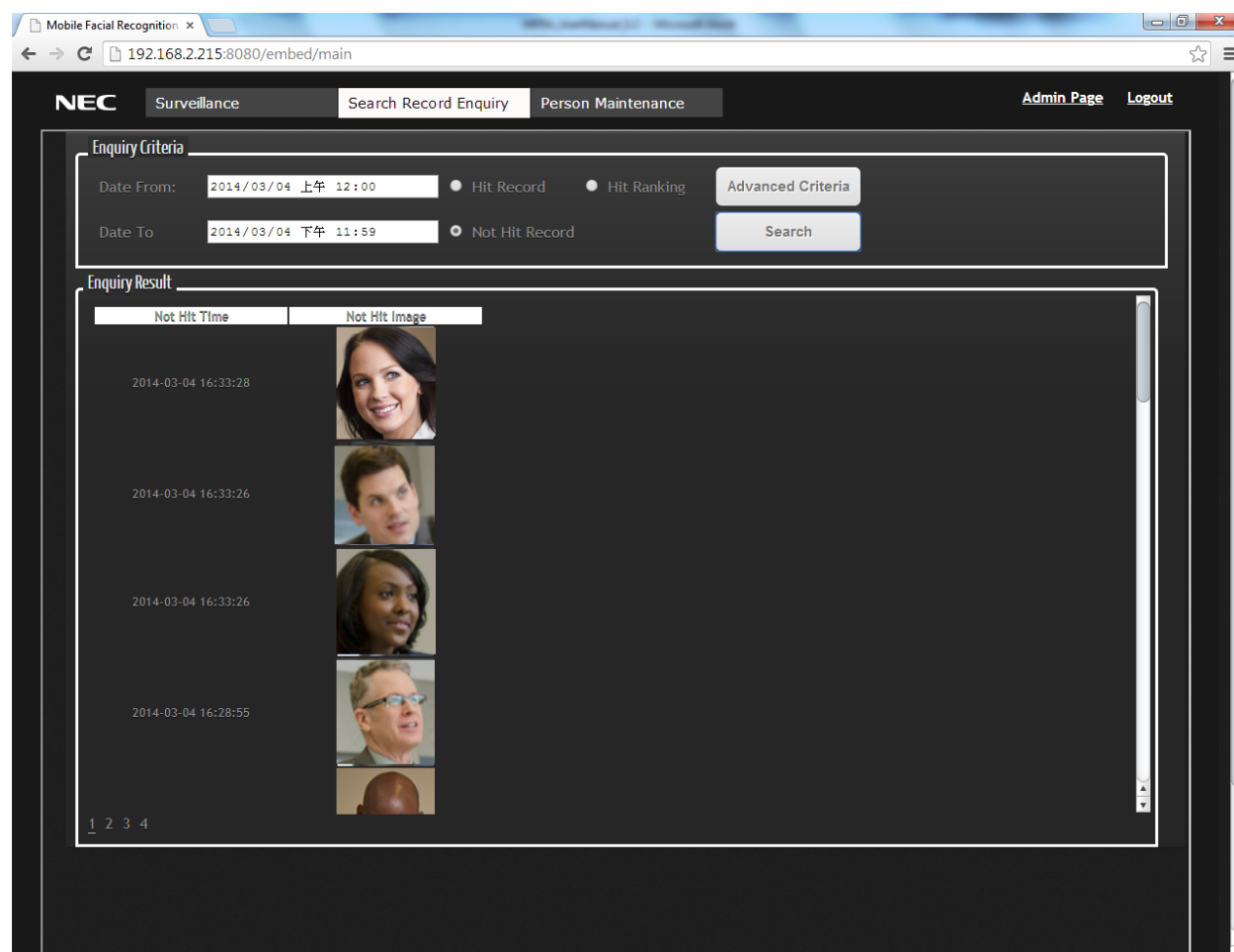
Enquiry Result

Hit Time	Hit Image	FIRST CANDIDATE	Detail	SECOND CANDIDATE	Detail	THIRD CANDIDATE	Detail
2014-03-04 16:46:12			White List Good guy Score:1.00				
	Hit Count:1						
2014-03-04 16:45:11			White List Good guy Score:1.00				
	Hit Count:1						
2014-03-04 16:44:11			White List Good guy Score:1.00				
	Hit Count:1						

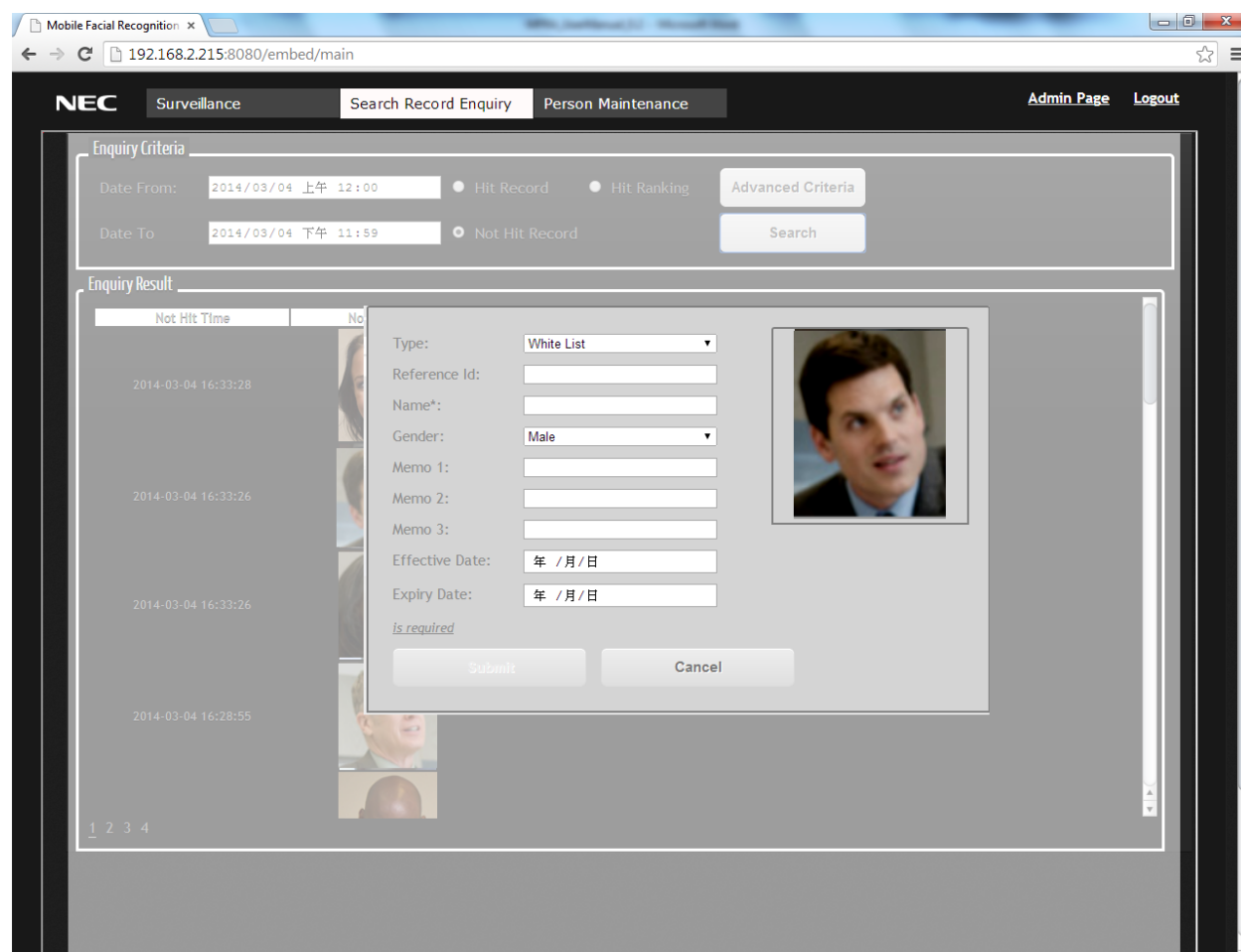
1 2 3

Sample "Hit Record" enquiry result

4.5.5.2 Not Hit Record Enquiry





Sample “Not Hit Record” enquiry result



Person can be added via Not Hit Record

4.5.5.3 Hit Ranking Enquiry

The screenshot shows the NEC Mobile Facial Recognition Appliance web interface. The browser address bar displays '192.168.2.215:8080/embed/main'. The interface has a dark theme with a top navigation bar containing 'Surveillance', 'Search Record Enquiry', and 'Person Maintenance'. The 'Search Record Enquiry' tab is active. Below the navigation bar, there is a section for 'Enquiry Criteria' with date range filters (Date From: 2014/03/04 上午 12:00, Date To: 2014/03/04 下午 11:59) and radio buttons for 'Hit Record', 'Hit Ranking' (selected), and 'Not Hit Record'. There are buttons for 'Advanced Criteria' and 'Search'. Below the criteria section is the 'Enquiry Result' table.

Rank	Hit Count	Person Image	Name	Ref Id	Memo1	Memo2	Memo3
1	54		Good guy	REF_2014030408440 9			
2	35		Good guy	REF_2014030409025 2			

Sample "Hit Ranking" enquiry result

4.5.5.4 Search Record Export

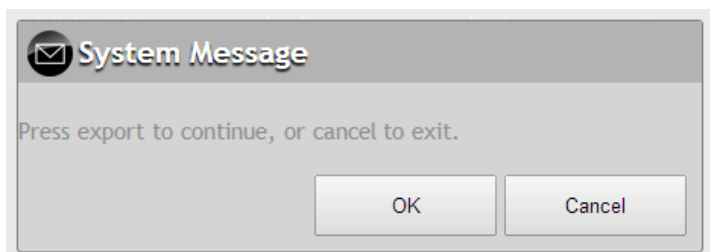
Hit Record Enquiry and Not Hit Record Enquiry results can be exported to a XML file, which can be useful for data backup, co-operation with multiple appliances or integrated with external system. For the xml schema, please refer to Appendix A: XML Schema for Data Export & Import.

Export function are only available for user with admin user type.

To Export Enquiry Result

1. Click "Export" button at the "Record Maintenance" panel.
2. The confirmation dialog will be prompted, click "OK" to continue the export.

The process may take a long time. It is recommended disabling all facial functions before start this action.



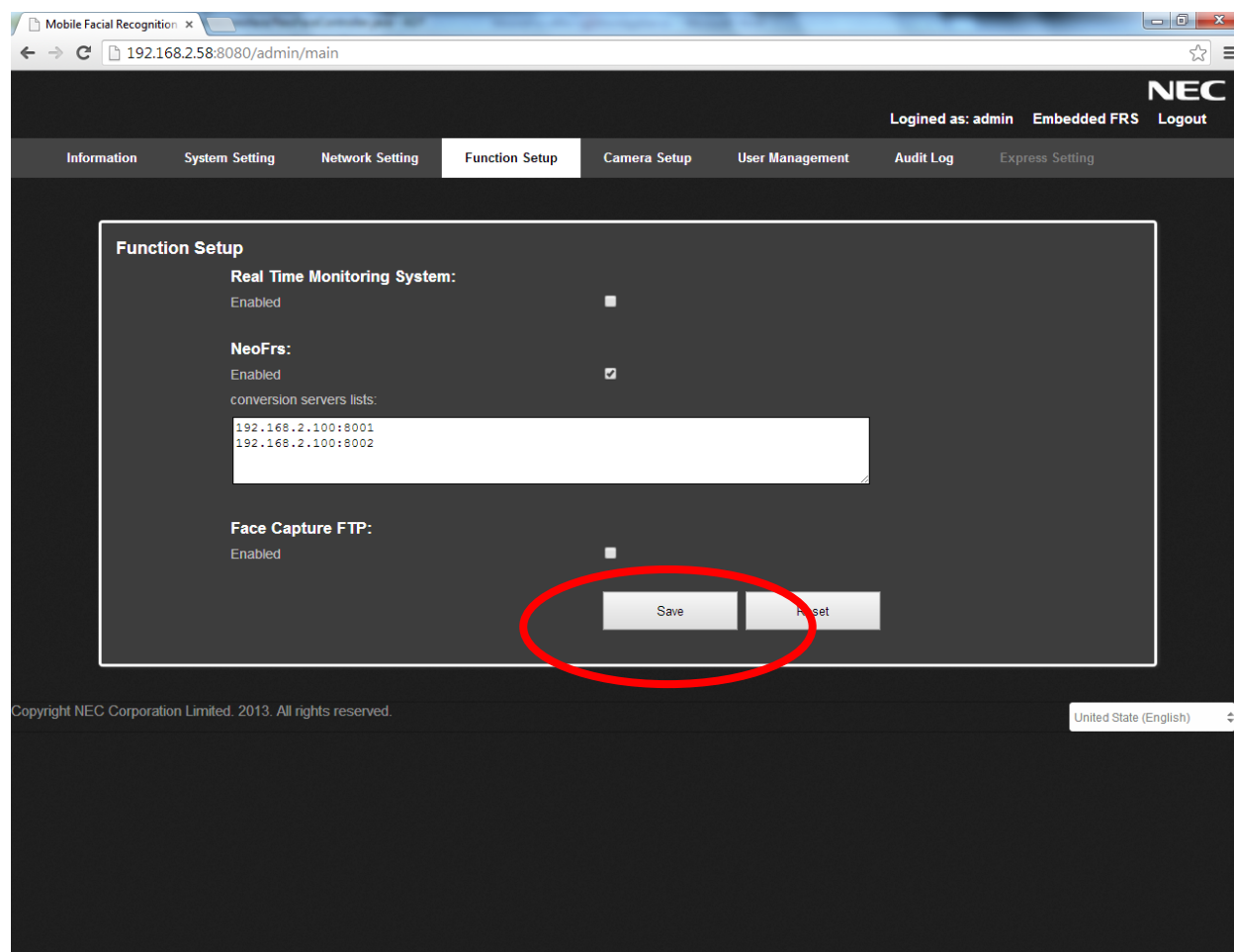
The xml file will be named in following format: <<hostname>>_<<export timestamp>>, and the timestamp will be in string format: “yyyy_MM_dd_hh_mm_ss”.

4.6 Function NeoFrS

The system can provide face image feed for NeoFrS. To enable this function, please check the “Enabled” checkbox at “NeoFrS” under “Function Setup” page. For detail regarding NeoFRS, please refers to the NeoFRS User Manual.

Parameters	Description
Feature conversion servers lists	The list of NeoFrS feature conversion address list, in format <<IP Address>>:<<Port>> If multiple feature conversion servers are used, input one server address per each line.

To make the settings effective, please click “Save” button at the bottom of the page.



4.7 Face Capture FTP

The system can provide face image feed for other external system via FTP. To enable this function, please check the “Enabled” checkbox at “Face Capture FTP” under “Admin->Function Setup” menu.

Parameters	Description
FTP server hostname	The IP address of the ftp server
FTP server port	The port of the ftp server
Username	Username of ftp account
Password	Password of ftp account

The settings can be test by clicking “Connection Test” button.

To make the settings effective, please click “Save” button at the bottom of the page.

The screenshot shows the NEC Mobile Facial Recognition Admin interface. The browser address bar displays '192.168.2.58:8080/admin/main'. The top navigation bar includes 'Information', 'System Setting', 'Network Setting', 'Function Setup' (selected), 'Camera Setup', 'User Management', 'Audit Log', and 'Express Setting'. The 'Function Setup' page contains the following settings:

- Real Time Monitoring System:** Enabled (checkbox checked)
- NeoFrs:** Enabled (checkbox checked)
- Face Capture FTP:** Enabled (checkbox checked)
 - FTP server hostname: 192.168.2.21
 - FTP server port: 21
 - Username: tester
 - Password:
 - Connection Test button

At the bottom of the 'Face Capture FTP' section, the 'Save' and 'Reset' buttons are visible. The 'Save' button is circled in red.

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4.8 Appliance Health Status

4.8.1 General

The appliance health status can be shown at the Admin -> Information page. There are four main type of event:

- System
- Real Time Monitor
- Face FTP
- NeoFRS
- Factory Reset

Mobile Facial Recognition Appliance

Welcome to NEC Mobile Facial Recognition Appliance administrative console.
Please make sure the following settings are correct.

- System Settings
Specify IP address and other device settings.
- App Setup
To enable/disable functions supported by this device.
 - Time Monitoring System - real time surveillance solution
 - FTP - obtain the face images from CCTV stream
 - NeoFRS - the real time CCTV solution by NEC
- Camera Setup
To setup camera for NeoFRS/ FTP function.

General Information

IP Address:	192.168.2.69
MAC Address:	00:1f:f2:0a:aa:89
Disk Usage:	0%
Wifi Address:	Disabled

System Health Status

Module name	On/ Off	Health Status
System	Error	Camera is not set Capture Frame Error!
Real Time Monitor	Normal	N/A
NeoFRS	Off	NeoFRS is Off
Face FTP	Off	Face FTP is Off
Factory Reset	Off	Factory Reset is off

System Control

System Reboot Firmware Upgrade

System Health Status section can be found at information page

4.8.2 Health Status Event Summary

Here is the summary of appliance status event with alert action. Action include:

- Trigger Email (*): Email alert if the event is triggered
- Resume Email (*): Email if the event is resumed from triggered
- Status LED: The signal pattern from status LED at the appliance front panel

Event	Trigger Email	Resume Email	Status LED L: On for 2000 ms and Off for 200 ms S: On for 200 ms and Off for 200 ms
System			
Camera is not set	False	False	L S S
Capture fail	True	True	L S S
NeoFaceError	True	False	L S
System Reboot	True	False	N/A
Firmware Upgrade	True	False	N/A
Real Time Monitor			
Real Time Monitor is Off	True	True	N/A
Image Frame Droppeed	False	False	N/A
Disk usage reach the defined limitation	True	False	L S S S S S
Disk usage Full	True	False	L S S S S S
Face FTP			
Face FTP is Off	True	True	N/A
Face FTP queue size is large	False	False	N/A
Error occur during FTP	True	True	L S S S S
NeoFRS			
NeoFRS is Off	True	True	N/A
NeoFRS queue size is large	True	True	N/A
Some of the NeoFRS Servers cannot be reached	True	True	L S S S
All NeoFRS servers were not be reached	True	True	L S S S

(*) E-mail addresses defined in system alert list from System Settings “E-mail Notifications” will receive the email according to the summary.

Appendix A - AXIS Camera Setup P1346

In this section, it shows the recommended setting for AXIS Camera P1346.

For the detail for setup procedure of the camera, please refers to the user manual provided by the IP camera manufactory.

1. Set the resolution of the capture mode to “1920x1080 (16:9)”

The screenshot shows the web interface for an AXIS P1346 Network Camera. The top navigation bar includes 'Live View', 'Setup', and 'Help'. The left sidebar lists various setup categories: Basic Setup (Instructions, 1 Users, 2 TCP/IP, 3 Date & Time, 4 Video Stream, 5 Focus, 6 Audio Settings), Video & Audio, Live View Config, Applications, Events, Recordings, System Options, and About. The main content area is titled 'Video Stream Settings' and contains several tabs: Image, Audio, H.264, and MJPEG. The 'Image' tab is active, showing 'Image Appearance' settings. Under 'Image Appearance', the 'Capture mode' is set to 'HDTV 1080p 1920x1080 (16:9) @ 30fps'. The 'Resolution' is set to '1920x1080 (16:9)' pixels. The 'Compression' is set to '30' with a range of '[0..100]'. There is a checkbox for 'Mirror image' which is unchecked. The 'Rotate image' is set to '180' degrees. Below this is the 'Video Stream' section with 'Maximum frame rate' set to 'Unlimited'. The 'Overlay Settings' section includes checkboxes for 'Include overlay image at the coordinates: X [0] [0..] Y [0] [0..]', 'Include date', 'Include time', and 'Include text:'. The 'Text color' is set to 'white' and 'Text background color' is set to 'black'. The 'Place text/date/time at' is set to 'top' of image. At the bottom, there is a 'Preview' section with the text 'View image stream while configuring.', a 'Video format' dropdown set to 'MJPEG', an 'Open...' button, and 'Save' and 'Reset' buttons.

2. Enable anonymous viewer login

The screenshot shows the web interface for an AXIS P1346 Network Camera. The left sidebar contains a navigation menu with options: Basic Setup (selected), Video & Audio, Live View Config, Applications, Events, Recordings, System Options, and About. Under Basic Setup, there are sub-links: Instructions, 1 Users (selected), 2 TCP/IP, 3 Date & Time, 4 Video Stream, 5 Focus, and 6 Audio Settings. The main content area is titled 'Users' and features a 'User List' table with columns 'User Name', 'User Group', and 'User Info'. The table lists three users: 'root' (Administrator), 'test' (Administrator), and 'admin' (Viewer). Below the table are buttons for 'Add...', 'Modify...', and 'Remove'. Underneath is the 'HTTP/RTSP Password Settings' section with a dropdown menu set to 'Encrypted & unencrypted'. The 'User Settings' section contains three checked checkboxes: 'Enable anonymous viewer login (no user name or password required)', 'Enable anonymous PTZ control login (no user name or password required)', and 'Enable Basic Setup'. At the bottom are 'Save' and 'Reset' buttons.

User Name	User Group	User Info
root	Administrator	
test	Administrator	
admin	Viewer	

3. After setup the IP Camera, go to the admin page of the Appliance and update the camera type to "AXIS Camera" with the camera IP address to "IP Address" textbox.

The screenshot shows the 'Camera Settings' page. It includes the following fields and controls: 'Camera Type:' with a dropdown menu set to 'AXIS Camera'; 'IP Address:' with a text input field containing '192.168.2.96'; 'Capture Delay (200ms - 5000ms):' with a slider control set to 300; and 'Preview Redirect:' with an unchecked checkbox.

Appendix B - AXIS Camera Setup P1355

In this section, it shows the recommended setting for AXIS Camera P1355.

For the detail for setup procedure of the camera, please refers to the user manual provided by the IP camera manufactory.

1. Set the resolution of the capture mode to “1920x1080 (16:9)”

The screenshot displays the web interface for an AXIS P1355 Network Camera. The left sidebar contains a navigation menu with the following items: Basic Setup (Instructions, 1 Users, 2 TCP/IP, 3 Date & Time, 4 Video Stream, 5 Focus, 6 Audio Settings), Video & Audio, Live View Config, Detectors, Applications, Events, Recordings, System Options, and About. The main content area is titled 'AXIS P1355 Network Camera' and includes links for 'Live View', 'Setup', and 'Help'. The 'Video Stream Settings' section is active, showing tabs for 'Image', 'Audio', 'H.264', and 'MJPEG'. Under the 'Image' tab, the 'Image Appearance' section includes 'Resolution' set to '1920x1080 (16:9)' pixels, 'Compression' set to '30' [0..100], a 'Mirror image' checkbox, and 'Rotate image' set to '180' degrees. The 'Video Stream' section shows 'Maximum frame rate' with 'Unlimited' selected and 'Limited to' [1..25] fps per viewer. The 'Overlay Settings' section includes checkboxes for 'Include overlay image at the coordinates: X [0] [0..] Y [0] [0..]', 'Include date', 'Include time', and 'Include text:'. It also features 'Text color' (white), 'Text background color' (black), and 'Place text/date/time at top' of image. A 'Preview' section at the bottom shows 'View image stream while configuring. Video format: MJPEG' with an 'Open...' button. 'Save' and 'Reset' buttons are located at the bottom of the settings area.

2. Enable anonymous viewer login

The screenshot shows the 'Users' configuration page for an AXIS P1355 Network Camera. The left sidebar contains a navigation menu with options: Basic Setup (Instructions, 1 Users, 2 TCP/IP, 3 Date & Time, 4 Video Stream, 5 Focus, 6 Audio Settings), Video & Audio, Live View Config, Detectors, Applications, Events, Recordings, System Options, and About. The main content area is titled 'Users' and includes a 'User List' table with columns 'User Name' and 'User Group'. The table contains one entry: 'root' with 'Administrator' as the group. Below the table are buttons for 'Add...', 'Modify...', and 'Remove'. Further down is the 'HTTP/RTSP Password Settings' section with a dropdown menu set to 'Encrypted & unencrypted'. The 'User Settings' section has three checked checkboxes: 'Enable anonymous viewer login (no user name or password required)', 'Enable anonymous PTZ control login (no user name or password required)', and 'Enable Basic Setup'. At the bottom are 'Save' and 'Reset' buttons.

User Name	User Group
root	Administrator

3. After setup the IP Camera, go to the admin page of the Appliance and update the camera type to "AXIS Camera" with the camera IP address to "IP Address" textbox.

The screenshot shows the 'Camera Settings' page. It includes a 'Camera Type' dropdown menu set to 'AXIS Camera', an 'IP Address' text box containing '192.168.2.96', a 'Capture Delay (200ms - 5000ms)' slider set to 300, and a 'Preview Redirect' checkbox which is currently unchecked.

Appendix C – Panasonic Camera Setup WV-SP508E

In this section, it shows the recommended setting for Panasonic Camera WV-SP508E

For the detail for setup procedure of the camera, please refers to the user manual provided by the IP camera manufactory.

1. Update the Image “JPEG” section, which is used for appliance live preview in surveillance page

Parameter	Value
Image capture size	640x360

The screenshot shows the 'Setup' menu for the Network Camera WV-SP508. The 'Image' option is selected. The 'JPEG' section is active, showing settings for the 'Live' page (Initial display). The 'Image capture size' is set to 640x360. The 'Image quality' is set to Quality 1. The 'Image quality setting' section shows three rows for different resolutions: 1920x1080, 640x360, and 320x180. Each row has two quality settings: Quality 1 (set to 5 Normal) and Quality 2 (set to 8). A 'Set' button is at the bottom right.

2. Update the Image “H.264(1)” section, which is used for real time monitoring streaming.

Parameter	Value
H.264 Transmission	On
Refresh interval (JPEG)	3 fps
Image capture size	1920x1080

The screenshot shows the 'Setup' menu for the Network Camera WV-SP508. The 'Image' option is selected. The 'H.264(1)' section is active. The 'H.264 transmission' is set to On. The 'Internet mode (over HTTP)' is set to Off. The 'Image capture size' is set to 1920x1080. The 'Transmission priority' is set to Frame rate. The 'Frame rate*' is set to 3fps. The 'Burst tolerance level' is set to Low. The 'Control time period' is set to 24h. The 'Max bit rate (per client) *' is set to Max 4096kbps * and Min 512kbps *. The 'Image quality' is set to Normal. The 'Refresh interval' is set to 1s.

3. Turn off the User auth. From User mng. section

The screenshot shows the 'User mng.' configuration page. The 'User auth.' tab is active. The 'User auth.' field is set to 'Off'. The 'Authentication' dropdown is set to 'Digest or Basic'. The 'Access level' is set to '3. Live only'. The 'User check' dropdown shows 'admin[1]'.

4. After setup the IP Camera, go to the admin page of the Appliance and update the camera type to "Panasonic Camera" with the camera IP address to "IP Address" textbox.

The screenshot shows the 'Camera Settings' page. The 'Camera Type' is set to 'Panasonic Camera'. The 'IP Address' is set to '192.168.2.96'. The 'Capture Delay (200ms - 5000ms)' is set to '300'. The 'Preview Redirect' checkbox is unchecked.

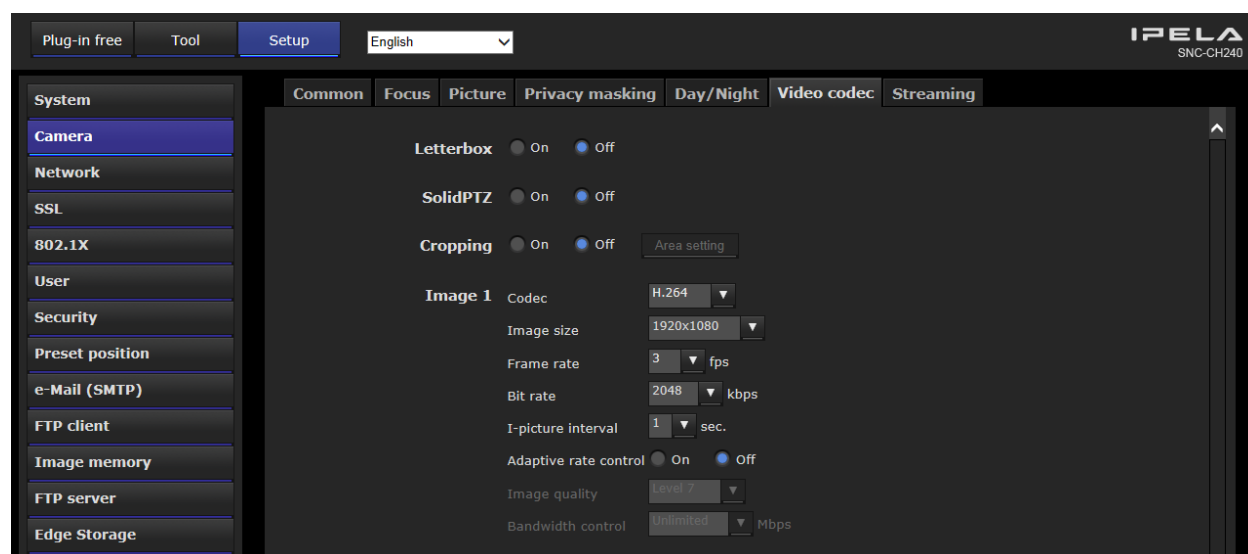
Appendix D – Sony Camera Setup SNC-CH240

In this section, it shows the recommended setting for Sony Camera SNC-CH240

For the detail for setup procedure of the camera, please refers to the user manual provided by the IP camera manufactory.

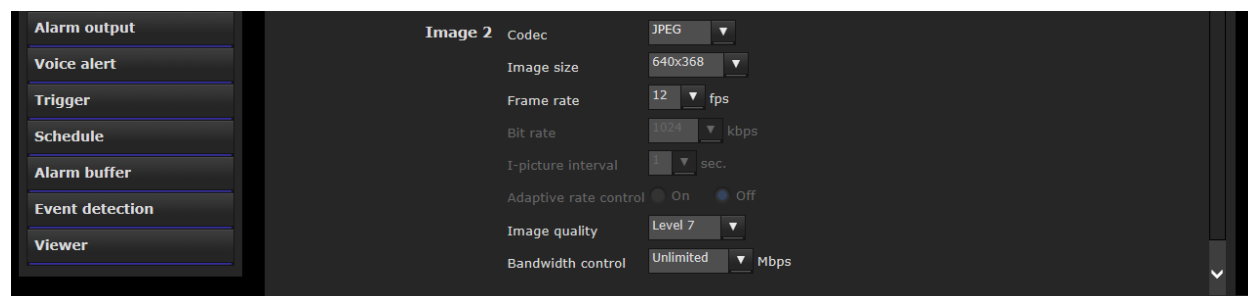
1. Update the Image “Image 1” section, which is used for video stream of real time monitoring system.

Parameter	Value
Codec	H.264
Image size	1920x1080
Frame rate	3 fps



2. Update the Image “Image 2” section, which is used for appliance live preview in surveillance page

Parameter	Value
Codec	JPEG
Image size	640x368



3. Set the Viewer authentication to “Off”

The screenshot shows the IPELA SNC-CH240 Setup interface. The left sidebar contains a list of settings: Camera, Network, SSL, 802.1X, User (selected), Security, Preset position, e-Mail (SMTP), FTP client, Image memory, FTP server, Edge Storage, Alarm output, Voice alert, Trigger, Schedule, Alarm buffer, Event detection, and Viewer. The main area is titled 'Setting' and contains the following fields:

- Administrator: User name: admin, Password / Re-type password: [masked]
- Table of users (User 1 to User 9):

User	User name	Password / Re-type password	FTP	Audio	Viewer mode
User 1			<input type="checkbox"/>	<input type="checkbox"/>	Full
User 2			<input type="checkbox"/>	<input type="checkbox"/>	Full
User 3			<input type="checkbox"/>	<input type="checkbox"/>	Full
User 4			<input type="checkbox"/>	<input type="checkbox"/>	Full
User 5			<input type="checkbox"/>	<input type="checkbox"/>	Full
User 6			<input type="checkbox"/>	<input type="checkbox"/>	Full
User 7			<input type="checkbox"/>	<input type="checkbox"/>	Full
User 8			<input type="checkbox"/>	<input type="checkbox"/>	Full
User 9			<input type="checkbox"/>	<input type="checkbox"/>	Full

- Viewer authentication: ☐ On ☒ Off, Full

Buttons: OK, Cancel

4. After setup the IP Camera, go to the admin page of the Appliance and update the camera type to “Panasonic Camera” with the camera IP address to “IP Address” textbox.

The screenshot shows the Camera Settings page with the following fields:

- Camera Type: Sony Camera (dropdown)
- IP Address: 192.168.2.96 (text input)
- Capture Delay (200ms - 5000ms): 300 (slider)
- Preview Redirect: ☐

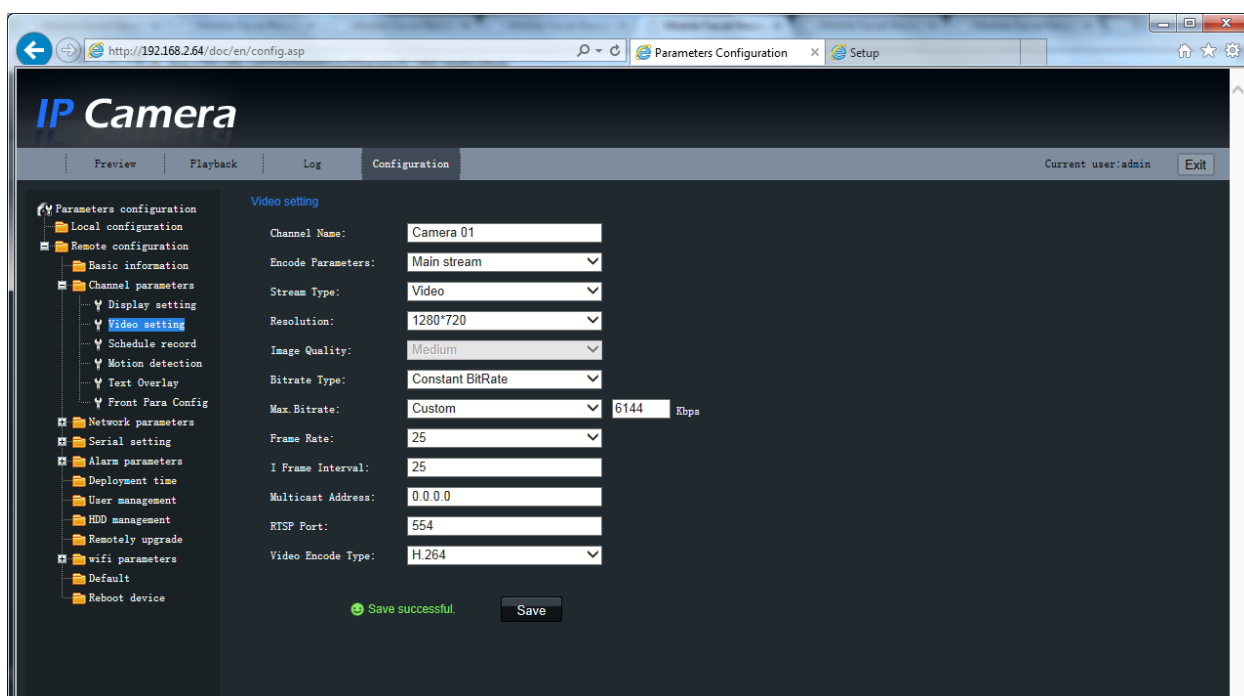
Appendix E – Hikvision Camera Setup DS-2CD854-EW

In this section, it shows the recommended setting for Hikvision Camera DS-2CD854-EW

For the detail for setup procedure of the camera, please refers to the user manual provided by the IP camera manufactory.

1. Update the video setting, which is used for video stream of real time monitoring system.

Parameter	Value
Image size	1280*720
Video Encode Type	H.264



2. After setup the IP Camera, go to the admin page of the Appliance and update the camera type to "Hikvision Camera" with the camera IP address to "IP Address" textbox. Please input the username with password for accessing the camera as well.

Camera Settings:

Camera Type: Hikvision Camera ▼

IP Address: 192.168.2.96

Capture Delay (200ms - 5000ms): 300

Static jpeg refresh interval: 20

Username: admin

Password:

Preview Redirect: ☐

Appendix F – Samsung Camera Setup SNO-6011R

In this section, it shows the recommended setting for Samsung Camera SNO-6011R

For the detail for setup procedure of the camera, please refers to the user manual provided by the IP camera manufactory.

1. Update the video profile “H.264”, which is used for video stream of real time monitoring system.

Parameter	Value
Resolution	1920x768 (16:9)

The screenshot displays the web interface for the Samsung Camera SNO-6011R. The browser address bar shows the URL `192.168.2.97/home/setup/av_videoprofile.cgi`. The interface is divided into a left sidebar and a main content area. The sidebar contains a menu with options: Video setup, Camera setup, Network, Event, and System. The main content area is titled "Video profile" and contains a table of video profiles. The table has three columns: Name, Codec, and Type. The profiles listed are: H.264 (H.264, Default), H.264 (H.264, Event / Record), and MOBILE (H.264, Default). Below the table, there is a "Delete" button. The "H.264" profile is selected, and its settings are displayed in a form. The settings include: Name (H.264), Codec (H.264), Profile type (Default profile, E-mail/FTP profile, Record profile), ATC mode (Off), ATC sensitivity (Very high), and ATC limit (50 % (10 ~ 50)). Below the profile settings, there is a "Crop encoding" section with a "Use" checkbox and a "Set area" button. The "Profile setting" section includes: Resolution (1920 X 1080 (16:9)), Framerate (15 fps), Compression (Best), and Target bitrate (5120 Kbps (2048 ~ 15360)). At the bottom of the main content area, there is an "Advanced" button.

Name	Codec	Type
H.264	H.264	Default
H.264	H.264	Event / Record
MOBILE	H.264	Default

Delete

Name: H.264
Codec: H.264
Profile type: ☒ Default profile, ☐ E-mail/FTP profile, ☐ Record profile
ATC mode: Off
ATC sensitivity: Very high
ATC limit: 50 % (10 ~ 50)

Crop encoding

☐ Use **Set area**

Profile setting

Resolution: 1920 X 1080 (16:9)
Framerate: 15 fps
Compression: Best
Target bitrate: 5120 Kbps (2048 ~ 15360)

Advanced

- Update the video profile “MJPEG”, which is used for live preview in surveillance page

Parameter	Value
Resolution	640x360 (16:9)

The screenshot shows the 'Video profile' configuration page. On the left is a sidebar with navigation options: Video profile, Video setup, Camera setup, Network, Event, and System. The main content area is titled 'Video profile' and includes a checkbox 'Keep connection when profile setting is changed'. Below this is a table listing video profiles:

Name	Codec	Type
MJPEG	MJPEG	Event / Record
H.264	H.264	Default
MOBILE	MJPEG	

Below the table is a 'Delete' button. The 'MJPEG' profile is selected for editing. The configuration fields for this profile are:

- Name: MJPEG
- Codec: MJPEG
- Profile type: ☐ Default profile, ☒ E-mail/FTP profile, ☒ Record profile
- ATC mode: Off
- ATC sensitivity: Very high
- ATC limit: 50 % (10 ~ 50)

Below these fields is the 'Crop encoding' section with a 'Use' checkbox and a 'Set area' button. The 'Profile setting' section at the bottom includes:

- Resolution: 640 X 360 (16:9)
- Framerate: 5 fps
- Compression: 10
- Maximum bitrate: 6144 Kbps (64 ~ 6144)

- After setup the IP Camera, go to the admin page of the Appliance and update the camera type to “Samsung Camera” with the camera IP address to “IP Address” textbox. Please input the username with password for accessing the camera as well.

The screenshot shows the 'Camera Settings' page. The settings are as follows:

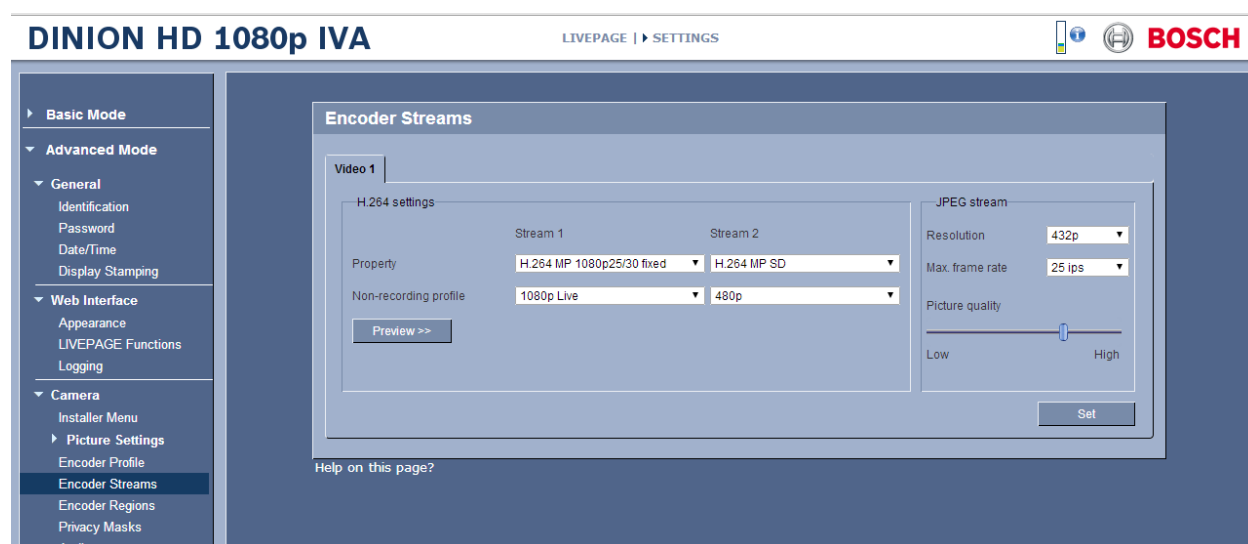
- Camera Type: Samsung Camera
- IP Address: 192.168.2.96
- Capture Delay (200ms - 5000ms): 300
- Username: admin
- Password:
- Preview Redirect: ☐

Appendix G – Bosch Camera Setup NBN-832V-IP

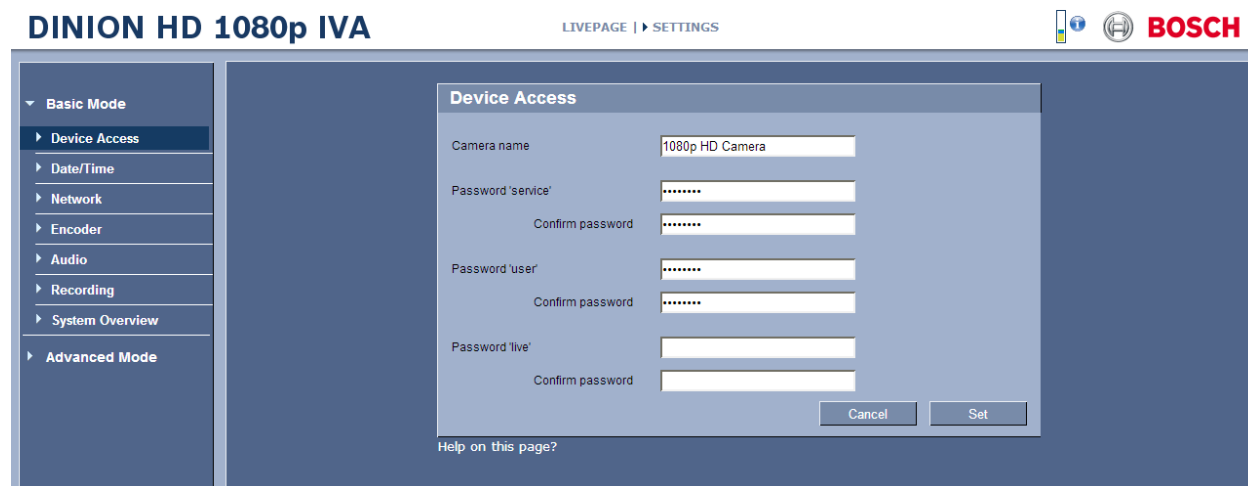
In this section, it shows the recommended setting for Bosch Camera NBN-832V-IP

For the detail for setup procedure of the camera, please refers to the user manual provided by the IP camera manufactory.

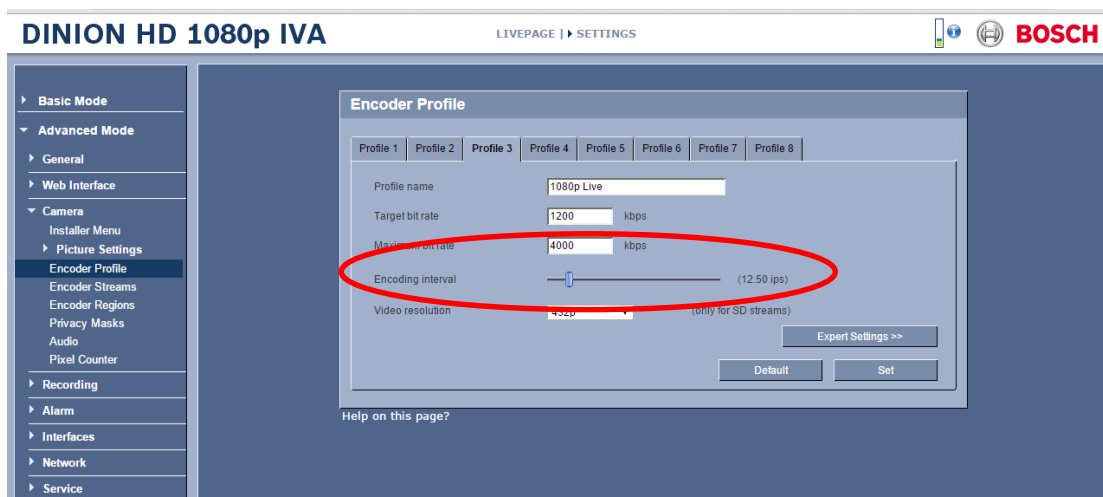
1. Update the “Encoder Streams” and set the following:
 - H.264 settings Stream1 to “1080p Live” for real time monitoring system.
 - JPEG streams Resolution to “432p” for live preview



2. Update the “Device Access” and set the following:
 - Set the Password ‘live’, or
 - Leave the Password ‘live’ as blank if “Is Anonymous” option is used (Please refer to step 3)

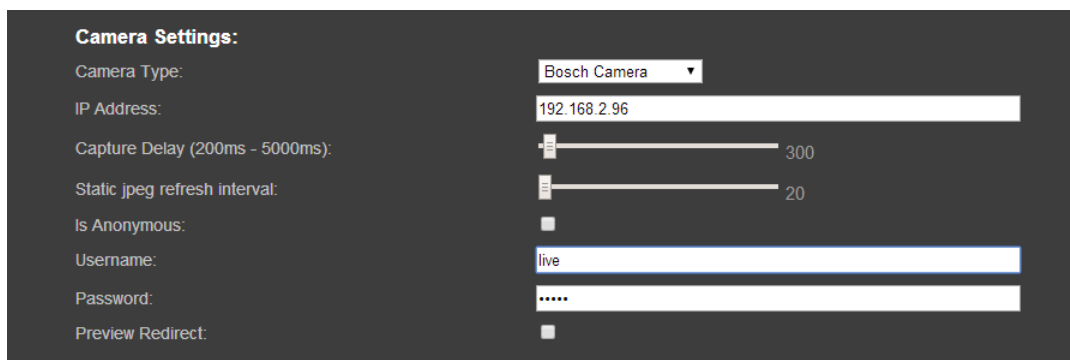


3. Change the frame rate of Encoder Profile 3 (1080p Live) from default 25 to 12.5.



4. After setup the IP Camera, go to the admin page of the Appliance and update the camera type to "Bosch Camera" with the camera IP address to "IP Address" textbox.

If Password 'live' is set at step 2, please uncheck the "Is Anonymous" and enter the username and password correspondingly.



If Password 'live' is NOT set at step 2, please check the "Is Anonymous"

