EZY-LAN / IP CAM Programming

1 General

The control panel can communicate directly with some IP camera models, for a maximum of 8 cameras, with the aim of offering visual verification (video-verification) in case of alarm events.

Each camera can be associated with one or more alarm zones (maximum 4).
With the control panel armed, for each alarm generated by one of the associated zones, the control panel will ask the camera for a sequence of images (at low resolution) - the number of images for each event is programmable from 1 to 8.

The images relating to the alarm events are stored in the memory of the control panel and are made available for viewing directly from the APP, as well as sent as attachments to the alarm e-mails (only to users who have enabled the reception of this type of communication).

The internal memory dedicated to the images is a 2Mb circular RAM buffer, sufficient to store about 66 images in VGA resolution. Once the memory is full, the new images overwrite those of the older events.

NOTE. The memory dedicated to the images is volatile type, therefore the images will be lost in case of restart or complete lack of power to the control panel

2 Compatible models

BRAND SUNELL
All models are compatible

BRAND PROVISION-ISR
All models are compatible

BRAND DAHUA
Only the following models are compatible.
It is also mandatory to add a microSD memory inside the camera

- *IPC-K35*
- *HFW1320S-W*
- *HDBW1320E-W*
- *HFW1235S-W*
- *HFW1435S-W*
- *HDBW1235E-W*
- *HDBW1435E-W*
- *HFW1235S-W-S2*
- *HFW1435S-W-S2*
- *HDBW1235E-W-S2*
- *HDBW1435E-W-S2*

3 Installing the Camera

The IP camera and the control panel must be connected to the same local network.
In fact, the image acquisition function for video verification is only possible if the control unit can directly reach and interrogate the camera.

4 Settings common to all brands

The cameras need some settings that are normally made via a web browser or any dedicated software. Refer to the tools and manuals provided by the camera manufacturer for details on its programming.

The camera must be programmed with a static (fixed) local IP address that is part of the same subnet assigned to the control panel.

Correct example. Control Panel IP = 192.168.1.150 / Camera IP = 192.168.1.160
Incorrect example. Control Panel IP = 192.168.1.150 / Camera IP = 192.168.0.160

If the camera had a dynamic IP address that can vary over time, the control panel would no longer be able to find it.

5 Control panel settings

For the settings of the camera on the control panel, refer to the "Installer Manual" of the control panel.

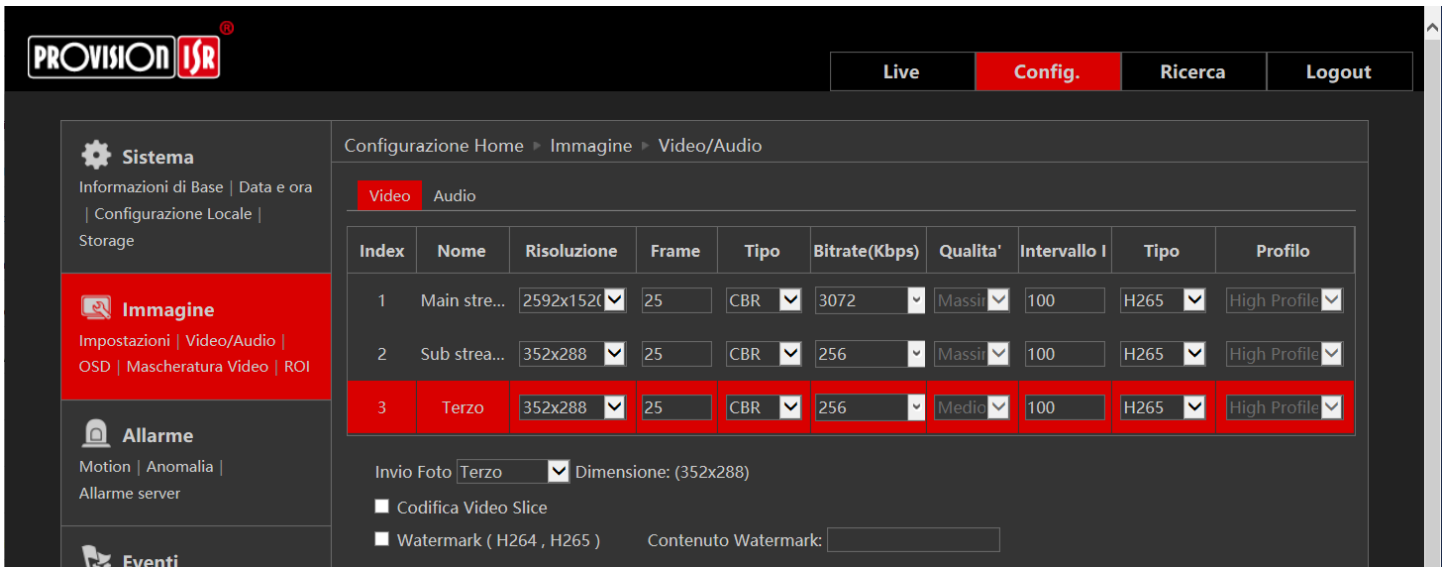
6 SUNELL camera settings

Set the options as follows
CONFIGURATION -> FLUX -> IMAGE CAPTURE
Snapshot Resolution = VGA or D1
Snapshot Quality = High

Select the resolution according to your preferences:
VGA → image size about 30kb
D1 → image size about 37kb

7 PROVISION-ISR Camera Settings

Set the options as follows
CONFIG. -> IMAGINE -> VIDEO/AUDIO
Third Resolution = 352x288 or 480x240 or 704x576
Send Photo = Third

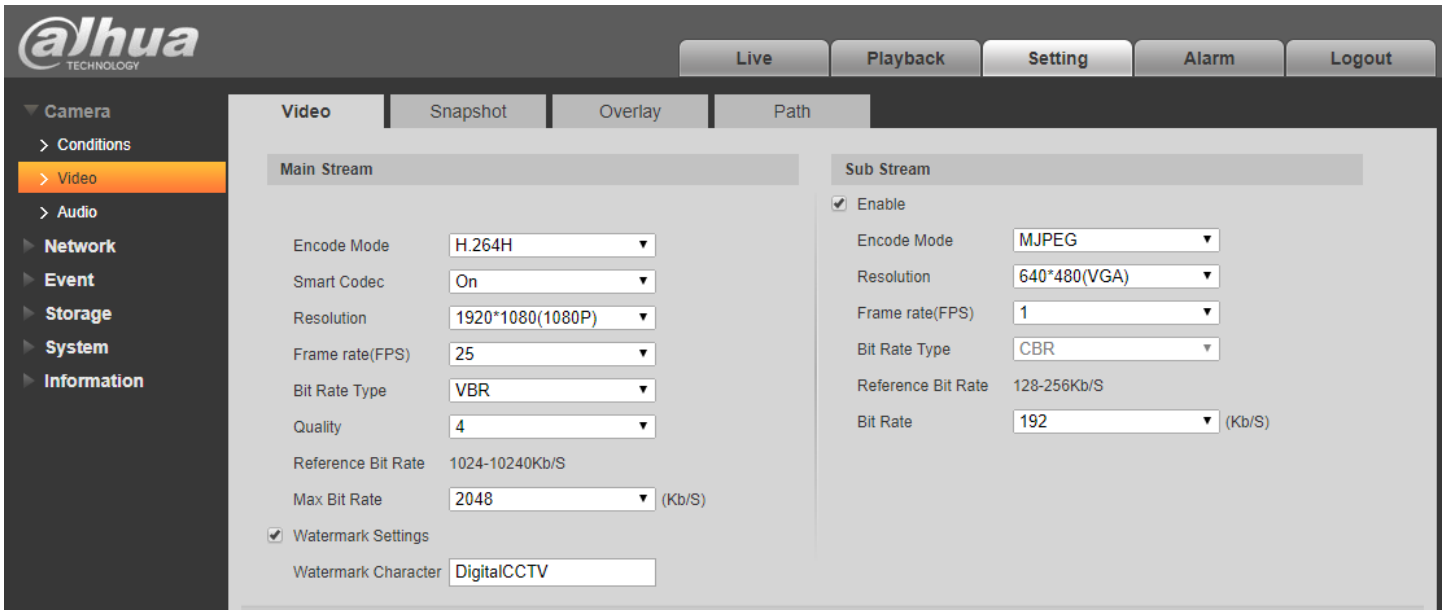


Select the resolution according to your preferences:
352x288 → image size about 20kb
480x240 → image size about 22kb
704x576 → image size about 63kb

8 DAHUA Camera Settings

PLEASE NOTE. It is mandatory to insert a microSD of adequate capacity and characteristics into the camera (see the camera requirements).

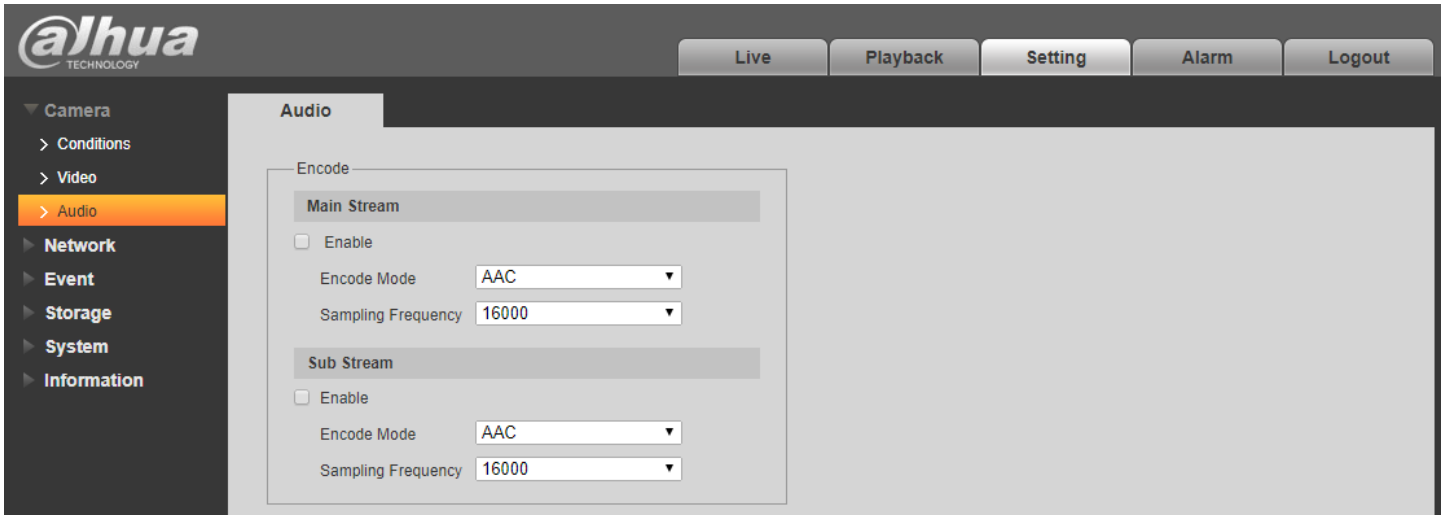
Set the options as follows
SETTING -> CAMERA -> VIDEO
Sub stream = Abilitato
Encode mode = MJPEG
*Resolution = 640*480 (VGA)*
Frame rate (FPS) = 1
Bit Rate = 192 Kb/s



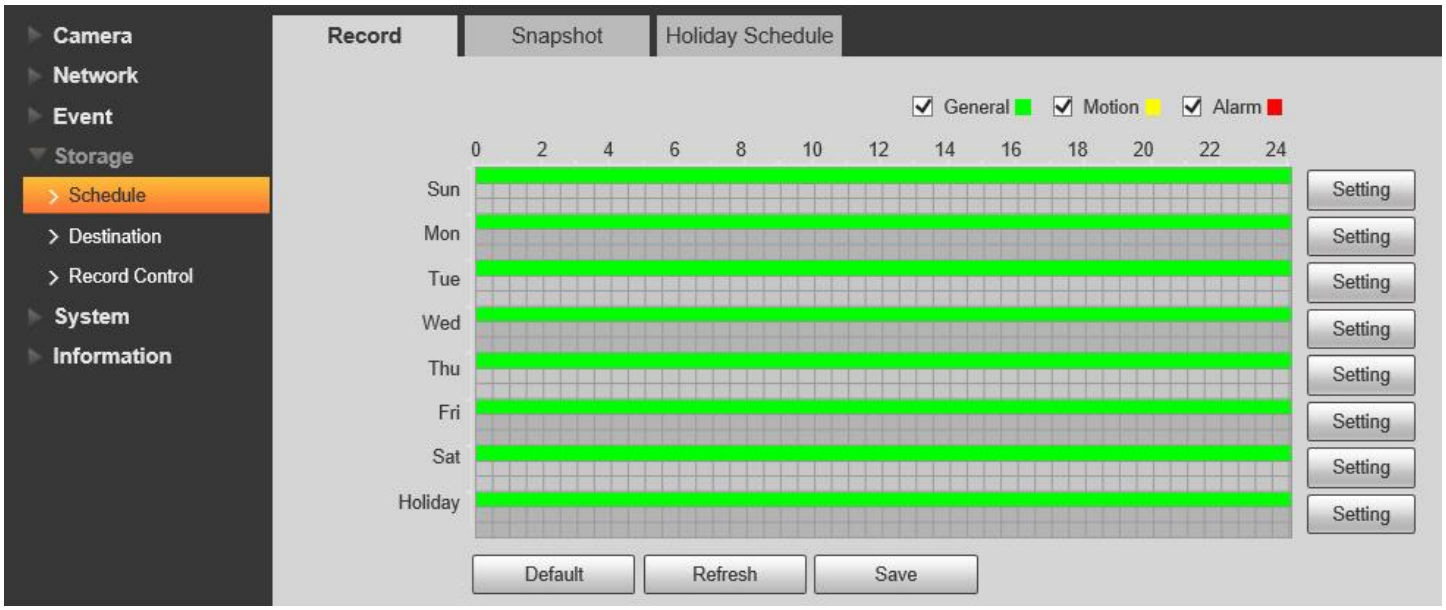
VGA → image size about 23kb

[IF AUDIO IS PRESENT]
Set the options as follows

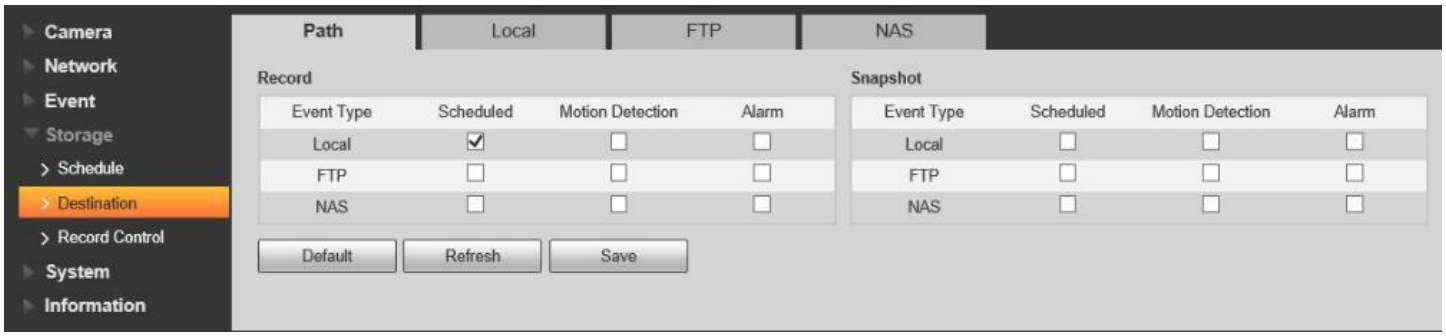
SETTING -> CAMERA -> AUDIO
Sub stream = Disabilitato



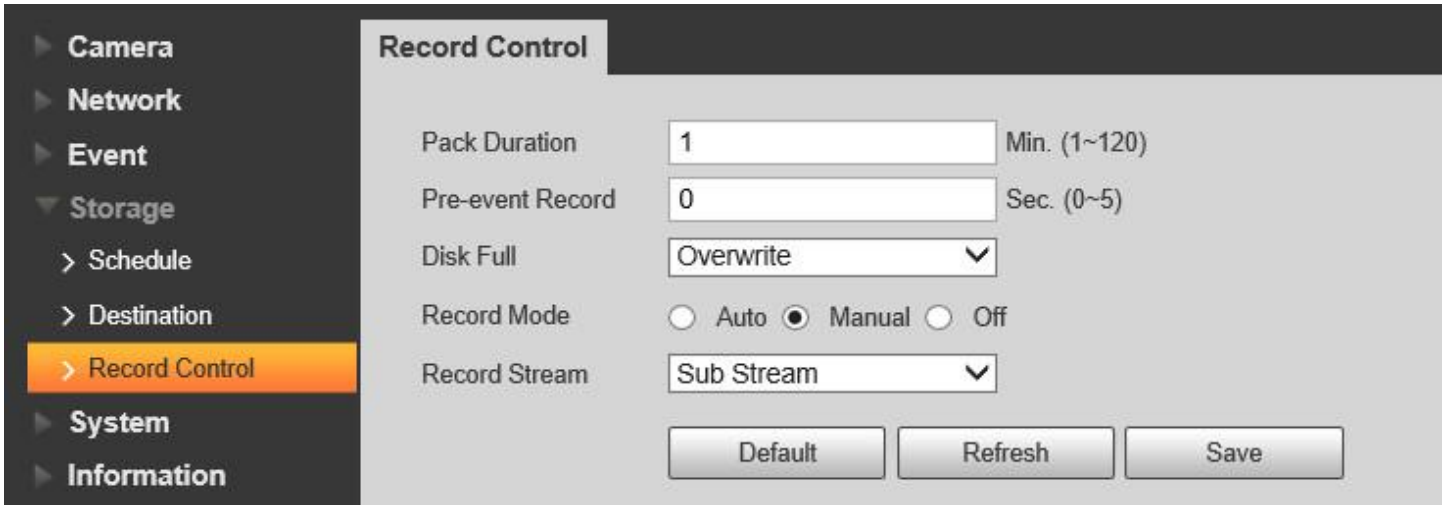
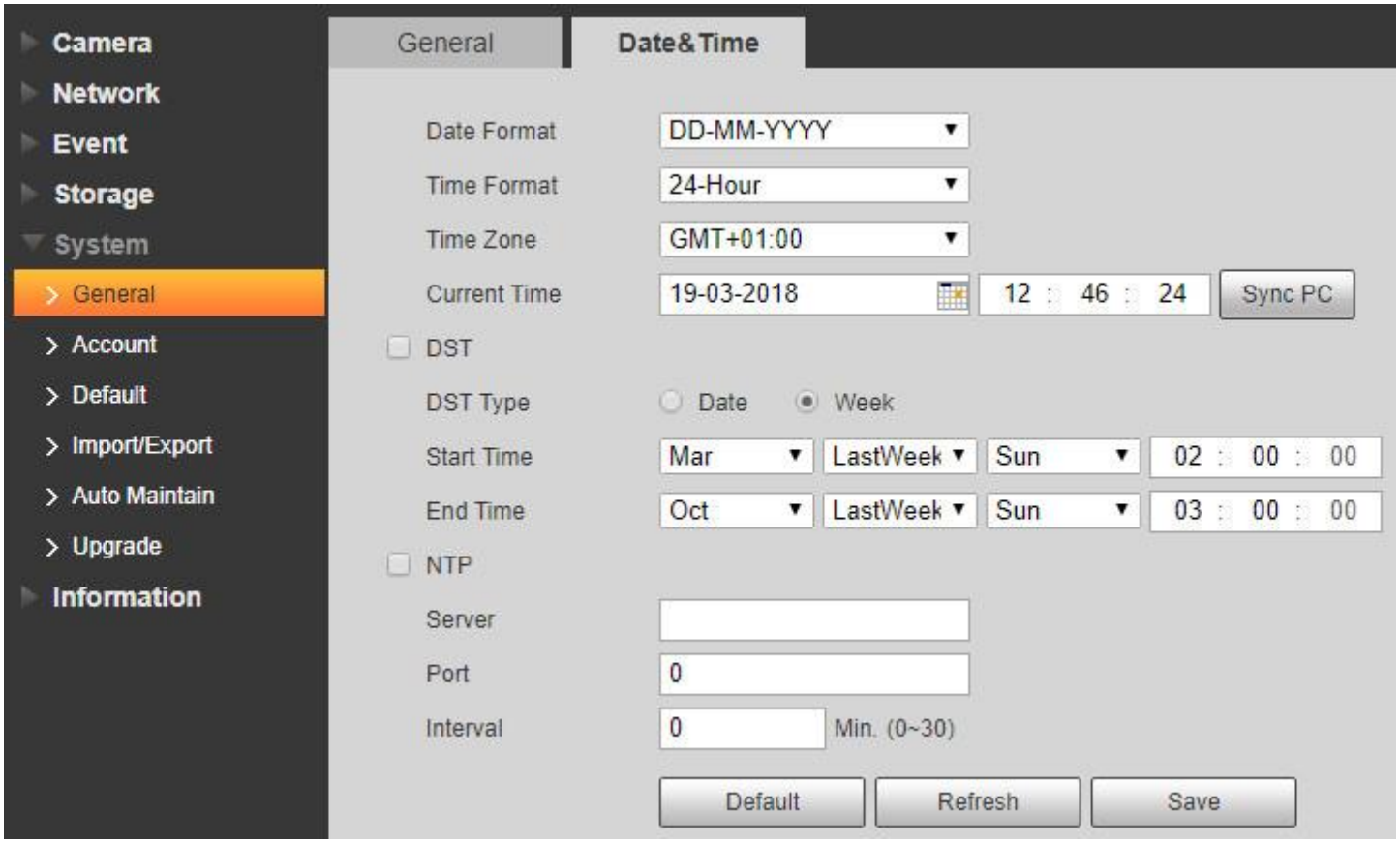
Set the options as follows
SETTING -> STORAGE -> SCHEDULE



Set the options as follows
SETTING -> STORAGE -> DESTINATION



Set the options as follows
SETTING -> STORAGE -> RECORD CONTROL
Pack Duration = 1 min
Pre-event Record = 0 sec
Disk Full = Overwrite
Record Mode = Manual
Record Stream = Sub Stream



Set the options as follows
SETTING -> SYSTEM -> GENERAL -> DATE&TIME
DST = DISABLED
NTP = DISABLED