



# NETWORK CAMERA

## Installation and Programming Manual

SNB-20XX1T Series



# Network Camera

## Installation and Programming Manual

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### Disclaimer

Stortech Electronics does its best to ensure the integrity and accuracy of the contents in this document and cannot guarantee this. The outcome of using this document shall be entirely the user's own responsibility. Stortech Electronics reserves the right to change the contents of this document without prior notice.

- Design and specifications are subject to change without prior notice.
- The default login is Admin, there is no password set when logging in for the first time. It is important that a password is then created.
- It is the responsibility of the user to ensure the security and management of the password.

### Important Safety Instructions

1. Read, keep, and follow these instructions.
2. Only use the power supplies that are recommended in the manual, failure to do so could result in damaging the product.
3. When cleaning the product's surface use a soft, dry cloth or a damp cloth. Do not use detergent or products that contain alcohol, solvents or surfactants or oil constituents, they may damage the product. Especially the viewing bubble/window)
4. Do not use excessive force when installing the product, the camera may be damaged and fail to work. If the warranty seal is damaged, the warrantee will be void.
5. Install or uninstall the product as described in the manual, failure to do so may damage the product, affect the functions and performance that could invalidate the warrantee.
6. Install the product by referring to "Installation & connection" in the user manual.

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# Overview

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## Product Features

- Max. 2megapixel (1920 x 1080) resolution
- 2.1mm & 3.6mm lens options
- Max. 25fps/PAL all resolutions,4MP max20fps/PAL (H.265/H.264)
- H.265, H.264 Compression
- Day & Night (ICR) & Colour only options
- WDR, BLS, De-noise
- 9 x 850nm, 10m Illumination
- Privacy Zones
- Image Mirror
- PoE options
- Metal
- ONVIF Profile S
- For more information, refer to [www.onvif.org](http://www.onvif.org).



## Recommended PC Specifications

- CPU: Intel(R) Core (TM) i7 3.4 GHz or higher
- RAM: 8G or higher
- Supported OS: Windows 7, 8.1, 10,
- plug-in free web viewer
- Supported web browsers: IE(Best) Google Chrome, MS Edge, Mozilla Firefox (Windows 64bit only),
- plug-in web viewer

## Packaging List

- Camera x 1
- Instruction manual x 1 (Via QR Code)
- Mounting screw x2
- Mounting Plug x2
- Hey-Key x 1.

# Installation

This camera is waterproof IP67, however the RJ45 socket on the Cat6 is not unless it is paired with the correct weatherproof plug.

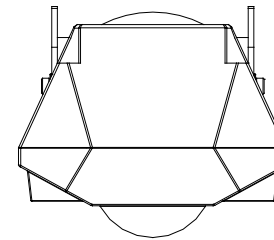
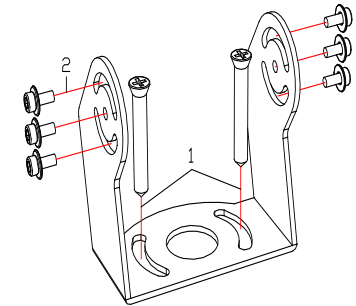
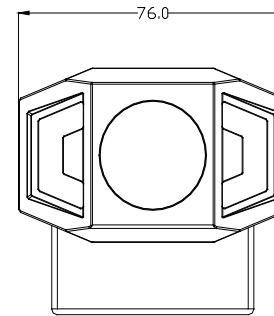
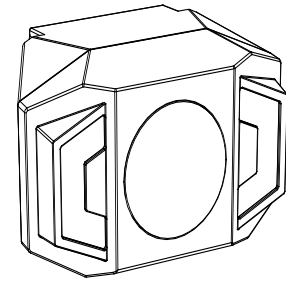
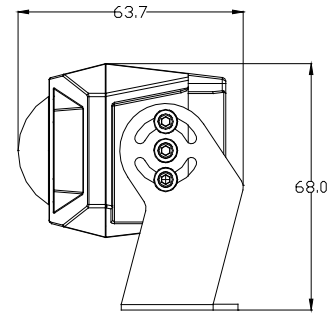
## Precaution

Before installing the camera ensure you read out the following instructions:

- The wall or ceiling that the camera is installed upon to withstand 5 x times the weight of the camera.
- Any excessive force used when installing the product may cause damage and/or malfunction.

## Installation

1. Loosen the lock screws on the bracket, remove the mounting bracket to the suitable position
2. Attach the mounting bracket to the wall or ceiling, wherever you want to install the camera. Locate a wall stud or ceiling joint and secure the base by the supplied mounting screws.
3. Make the camera to the suitable position, fix the lock screw.



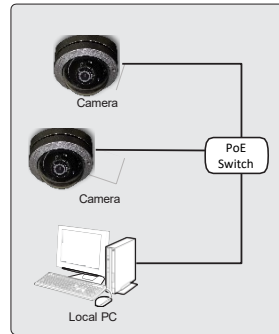
## Remote Setting

### Connecting the Camera directly to a Local Area Networking (LAN)

This camera can be connected to using Stortech VMS software, a Network Video Recorder (NVR) or a Web-Browser. This manual will show how to connect and set up via a Web-Browser. The set up via Stortech's VMS software, or an NVR, please refer to the separate manuals.

While it is not always necessary, it is good practice to disable the PC's Wi-Fi.

1. The camera's default IP address is 192.168.1.10. Set your PC to an appropriate IP address such as 192.168.1.1. with a subnet Mask of 255.255.255.0.
2. Ensure that the camera is powered up, either via a PoE switch or separate power supply.
3. Ensure your PC is connected to the same switch and green flashing lights are on both switch ports.
4. Launch an Internet Browser on the local PC.
5. Enter the camera's IP address in the address bar of the browser.
6. Once the login page appears, click "login". It will ask if you wish to set the P/W now or "next time". It is best practice to set the P/W now.



- A A choice of MJPEG (Default), VCL or QuickTime via plugins. You can view your image in 4:3, 16:9 or Full Screen.
- B Live Viewing, to watch the life image
- C AI Intelligence
- D Remote Settings – Camera configuration
- E Local Settings
- F Logging out of Camera
- G Viewing Window

The screenshot shows the 'User Login' page. It has a title 'User Login' at the top. Below the title are four input fields: 'User Name' with the value 'admin', 'Password' (empty), 'Preview Stream' with a dropdown menu showing 'MainStream', and 'Language' with a dropdown menu showing 'English'. At the bottom of the form are two buttons: 'Login' and 'Reset'.

## Camera Config

### OSD Configuration

1. Name
2. Overlay information
3. Channel Display
4. Time Display

Choose the camera's name

Such as resolution

Enable/Disable

Enable/Disable

### Image Control

1. Default
2. Smart Night
3. Image Mode
4. Work Mode
5. Onset brightness threshold
6. IR-Cut Reverse
7. Brightness/ Contrast/ Saturation/Hue/Sharpness
8. Defog
9. Flicker Control
10. The Flash strength

Returns this page to factory default

Prioritise, White light, Infra-Red light, or Intelligent Light (Camera decides best option).

Options include Standard, Faceless or Numberplate exposures. Reduces over exposure due to bright light

Manual

(Check)Control the light on/off time.

The numerical value less than the light will be on earlier and off later

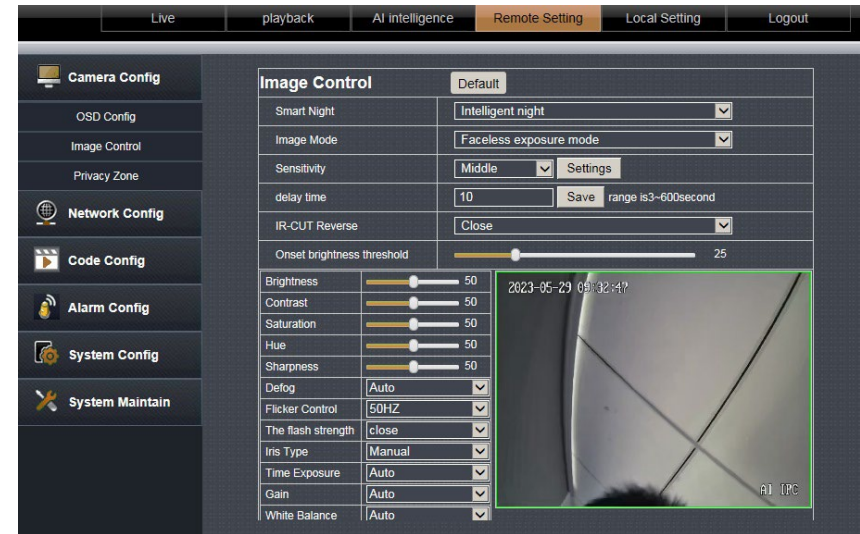
Manually removes the IR-Cut filter during the day.

Adjusts the settings of each over a percentage of 0 - 100

Auto engages frame integration technology to make foggy/rainy scenes clearer.

Options of 50Hz or 60Hz, strobe light flickering compensation

An exposure setting for indoor fluorescent lights strobe timings.



## Remote Setting

### Privacy Zones

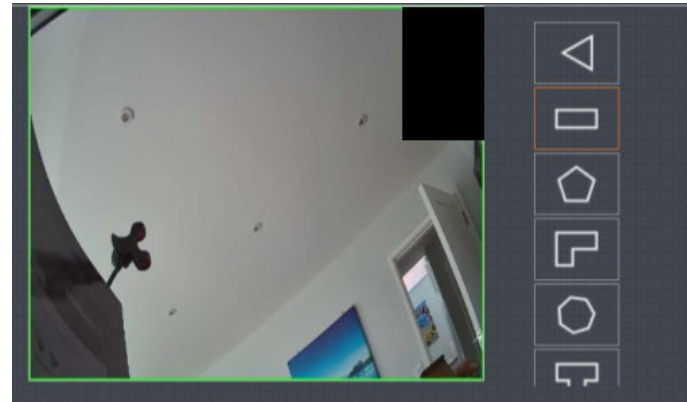
The ability to set up to 4 separate zones to hide sensitive areas from view.

### Network Configuration

1. IP Type  
Static, DHCP, Auto  
Dynamic Host Configuration Protocol,
2. Auto IP  
IPv4, IPv6
3. IP Address  
Entering the Static IP Address
4. Subnet Mask  
If you have a Static IP Address, you must set the Subnet Mask. Commonly set to 255.255.255.0 unless IT admin have allocated one
5. Gateway  
This is the local IP address of the broadband router
6. Primary DNS  
DNS (Domain Name Service) server address.
7. Alternative DNS  
Secondary Address
8. MAC Address  
The unique name given to every IP product, created in the factory.

### Port Configuration

1. HTTP Port  
HTTP port used to access the camera via the web browser.  
The default is 80(TCP), setting for Safari and Google Chrome browsers to 65535 is not allowed by security policy.
2. Command Port  
Used in FTP to communicate the TCP port number to use for the data transfer channel.
3. Media Port  
Passive Objects



| Network Config  |                   | Save |
|-----------------|-------------------|------|
| IP Type         | Static            | ▼    |
| Auto IP         | Enable            | ▼    |
| IP Address      | 192.168.1.10      |      |
| Subnet Mask     | 255.255.255.0     |      |
| Gateway         | 192.168.1.1       |      |
| Primary DNS     | 114.114.114.114   |      |
| Alternative DNS | 8.8.8.8           |      |
| MAC Address     | 5a:5a:00:25:22:ad |      |

| Port Config  |      | Save |
|--------------|------|------|
| HTTP Port    | 80   |      |
| Command Port | 6060 |      |
| Media Port   | 6066 |      |

Change the parameters will restart.

## Remote Setting

### Third Party Trigger

Not applicable in European and UK Markets

| Third party agreement |         | Save |
|-----------------------|---------|------|
| HK agreement          | Disable | ▼    |

Change the parameters will restart.

### RTSP Streaming port

1. RTSP

RTSP: Used to transfer videos in the RTSP mode; the default is 554.


| RTSP Config |     | Save |
|-------------|-----|------|
| RTSP Port   | 554 |      |

MainStream rtsp://IP:Port/live/0/MAIN  
SubStream rtsp://IP:Port/live/0/SUB


### P2P Configuration

Not applicable in European and UK Markets

| P2P Config |                     | Save |
|------------|---------------------|------|
| P2P        | Enable              | ▼    |
| UID        | IOTEAA-492547-DYCVF |      |
| Status     | Offline             |      |



Scan To Get DID



Scan To Download APP

Change the parameters will restart.



## Code Parameters

There are 10 video streams coming from the camera, the MainStream and 9 SubStream. The process of configuration is the same.

- |                     |   |
|---------------------|---|
| 1. Stream Type      | Video or Video & Audio  |
| 2. Video Codec      | H.264 / H.265 Compression   |
| 3. Resolution       | 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720   |
| 4. I frame interval | Between 1 – 200, the number of Partial frames (P-Frames) between each Full frame (I-Frame). |
| 5. FPS              | The number of frames per second (FPS) max25, (except 2560*1440 20FPS).                      |
| 6. Rate Control     | CBR (Constant Bit Rate) default / VBR (Variable Bit rate)                                   |
| 7. Quality          | 5 settings between Highest, High, Medium, Low, Lowest)                                      |

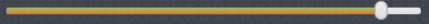
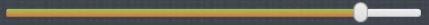
## **Audio Parameters**

- |                   |   |
|-------------------|---|
| 1. Audio Stream   | Video or Video & Audio                                    |
| 2. Audio-in Codec | G711U/ G.711A Formats                                     |
| 3. Input volume   | Adjusts the settings of each over a percentage of 0 - 100 |
| 4. Output volume  | Adjusts the settings of each over a percentage of 0 - 100 |

## **Capture Config**

- |                     |                   |
|---------------------|-------------------|
| 1. Image Resolution | 640 x 360         |
| 2. Image Quality    | High, Middle, Low |

| MainStream                          |                      | SubStream |
|-------------------------------------|----------------------|-----------|
| <b>MainStream</b> <span>Save</span> |                      |           |
| Stream Type                         | Video & Audio Stream |           |
| Video Codec                         | H.264                |           |
| Resolution                          | 1080P(1920*1080)     |           |
| I frame interval                    | 100                  | (1-200)   |
| FPS                                 | 20                   | (fps)     |
| Rate Control                        | VBR                  |           |
| Quality                             | Highest              |           |

| Audio Parameters |  | Save |
|------------------|--|------|
| Audio Stream     | MIC  |      |
| audio-in codec   | G711U  |      |
| Input volume     |  90  |      |
| Output volume    |  85 |      |

| Capture configuration |         | Save |
|-----------------------|---------|------|
| Image Resolution      | 640*360 |      |
| Image Quality         | Middle  |      |

## Remote Setting

### Alarm Config

- |                   |                     |
|-------------------|---------------------|
| 1. Alarm Out      | 1 Out Put           |
| 2. AlarmOut Name  | Selectable Name     |
| 3. AlarmOut Delay | Custom/Keep 1 – 600 |

| Alarm Out      |                     |
|----------------|---------------------|
| Alarm Out      | 1                   |
| AlarmOut Name  | AO01                |
| AlarmOut Delay | Customize           |
|                | 10 (1~600) (Second) |

### System Config

- |                     |  |
|---------------------|--|
| 1. Date Format      | DD-MM-YY, YY-MM-DD etc.                        |
| 2. Time Format      | 12-Hour / 24-Hour Clock                        |
| 3. Device date time | Synchronic with local PC date/time             |
| 4. NTP Timing       | Network Time Protocol Open/Closed              |
| 5. Time zone        | Select the time zones the cameras are in.      |
| 6. Sync Interval    | How often the cameras sync with the NTP server |
| 7. Server Address   | The network address of the NTP Server          |

| Date/time        |  |
|------------------|--|
| Date format      | DD-MM-YY                                   |
| Time format      | 24Hour                                     |
| Device date time | 2021-01-01 00:12:14 Sync with PC date time |
| NTP Timing       | Open                                       |
| Time zone        | (GMT +08:00) Beijing, Singapore, Taipei    |
| Sync Interval    | 01 Hour                                    |
| Server Address   | pool.ntp.org                               |

### Daylight Saving

- |                              |                                 |
|------------------------------|---------------------------------|
| 1. Enable DST                | Open / Closed                   |
| 2. Daylight Saving Time Mode | Week/ Month                     |
| 3. Time Offset               | Between -1& 2 Hours             |
| 4. Start Time                | Date & Time clocks go forward   |
| 5. End Time                  | Date & Time clocks go backwards |

| DST                       |                          |
|---------------------------|--------------------------|
| Enable DST                | Open                     |
| Daylight Saving Time Mode | Week                     |
| Time Offset               | 1Hour                    |
| Start Time                | Mar The 2nd Sun 02:00:00 |
| End Time                  | Nov The 1st Sun 02:00:00 |

## Local Setting

### User Management

There are 6 Admin (x 1) and 5 user accesses to the camera, only Admin has the ability to change any parameters.

### Device Info

This is for information only, showing Firmware, software, Device Serial Number and other important pieces of information.

### PTZ Setting

- |                 |                                   |
|-----------------|-----------------------------------|
| 1. PTZ          | Open / Closed                     |
| 2. PTZ Address  | Based on RS485 addressing         |
| 3. Bitrate      | PTZ Bit rate i.e., 115200 (Pelco) |
| 4. PTZ Step     | 1                                 |
| 5. PTZ Protocol | Pelco D                           |

| User Management |           |                | Save  |
|-----------------|-----------|----------------|---|
| NO.             | User Name | Enable/Disable | User Name: <input type="text" value="admin"/>       |
| 1               | admin     | Enable         | Password: <input type="password"/>                  |
| 2               | user1     | Disable        | Enable/Disable: <input type="text" value="Enable"/> |
| 3               | user2     | Disable        |   |
| 4               | user3     | Disable        |   |
| 5               | user4     | Disable        |   |
| 6               | user5     | Disable        |   |

User1 ~ user5 cannot modify device parameters!

A string of 8 to 16 characters can contain only digits, lowercase letters, and uppercase letters

| Basic Info           |  |
|----------------------|--|
| Device Name          | <input type="text" value="IPC"/>                     |
| Device Model         | <input type="text" value="F5G"/>                     |
| Device Serial Number | <input type="text" value="I20AC168FF6580A0067E343"/> |
| Software Version     | <input type="text" value="3.5.0-20220921SG"/>        |
| WEB Version          | <input type="text" value="22.09.09.9989"/>           |
| Alarm input number   | <input type="text" value="0"/>                       |
| Alarm output number  | <input type="text" value="1"/>                       |
| Voice Talk           | <input type="text" value="Support"/>                 |

| PTZ Setting  |                                     | Save |
|--------------|-------------------------------------|------|
| PTZ          | <input type="text" value="Open"/>   |      |
| PTZ Address  | <input type="text" value="1"/>      |      |
| Bitrate      | <input type="text" value="115200"/> |      |
| PTZ Step     | <input type="text" value="1"/>      |      |
| PTZ Protocol | <input type="text" value="PelcoD"/> |      |

## Specifications

### Auto Reboot

- |                          |                                     |
|--------------------------|-------------------------------------|
| 1. Maintenance Mode      | Select the Reboot frequency         |
| 2. Week Plan             | Select the day for the Reboot       |
| 3. Maintenance Time      | Select the Reboot time              |
| 4. Next Maintenance Time | The time the next Reboot is planned |

### Firmware (F/W) Upgrade

When new F/W is released, it can be loaded into the camera from here. It will ask you to brows your PC to the folder holding the F/W update.

### Restore Default

- |                    |   |
|--------------------|---|
| 1. Simple Recovery | To factory setting (not delete user data) |
| 2. Full Recovery   | To factory settings (all data delete)     |
| 3. Reboot          | Restart the camera                        |

| Auto Reboot           |  | Save |
|-----------------------|--|------|
| Maintenance Mode      | Everyweek  | ▼    |
| Week Plan             | <input checked="" type="checkbox"/> Sun. <input type="checkbox"/> Mon. <input type="checkbox"/> Tue. <input type="checkbox"/> Wed. <input type="checkbox"/> Thu. <input type="checkbox"/> Fri. <input type="checkbox"/> Sat. |      |
| Maintenance Time      | 23:59  |      |
| Next Maintenance Time | 2023-04-23 23:59   |      |

### Firmware Update

| Restore Default       |                 | Save |
|-----------------------|-----------------|------|
| <input type="radio"/> | Simple recovery |      |
| <input type="radio"/> | Full recovery   |      |
| <input type="radio"/> | Reboot          |      |

## Local Setting

1. Local Disk
2. Record Path
3. Snapshot Path
4. File Type
5. Save

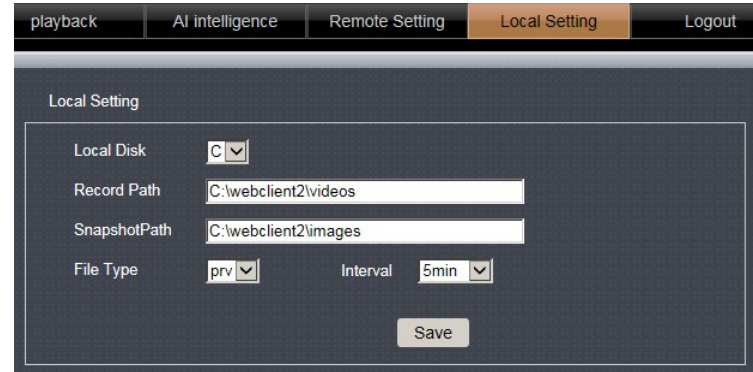
Choose the recording disk

Video recording position

Image recording position

Recording format Interval:  
video recording time  
(1/5/15/30/60min)

Saving the changes



The screenshot shows a web interface with a navigation bar at the top containing 'playback', 'AI intelligence', 'Remote Setting', 'Local Setting' (highlighted), and 'Logout'. Below the navigation bar is a 'Local Setting' configuration panel. The panel contains the following fields:

- Local Disk: A dropdown menu showing 'C'.
- Record Path: A text input field containing 'C:\webclient2\videos'.
- SnapshotPath: A text input field containing 'C:\webclient2\images'.
- File Type: A dropdown menu showing 'prv'.
- Interval: A dropdown menu showing '5min'.

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

## Intelligent Detection

### Human shape detection

- |                |  |
|----------------|--|
| 1. Enable      | Enable/ Disable                              |
| 2. Sensitivity | High, Medium, Low                            |
| 3. Type        | Sound output, Light alarm, Trigger Alarm out |

### Motion

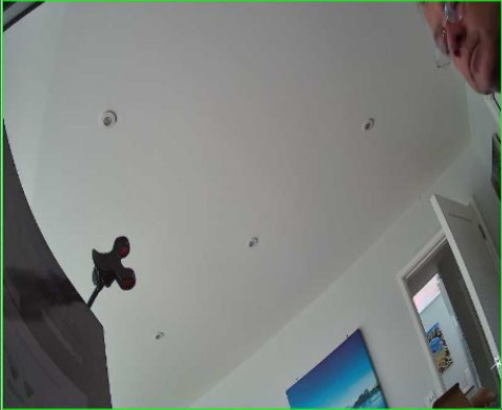

- |           |                 |
|-----------|-----------------|
| 1. Enable | Enable/ Disable |
|-----------|-----------------|

## Defence Area

The area of interest split into up to 4 zones. There are 6 shape options to maximise your coverage. Triangle, Rectangle, Pentagon, "L" shape, Heptagon, and "T" shape

|  |                                      |  |          |
|--|--------------------------------------|--|----------|
| Human shape detection                            | Motion                               | Defense area                               | Schedule |
| <b>Humanoid configuration</b>                    |                                      | Save                                       |          |
| Enable   | Enable                               |  |          |
| Sensitivity                                      | Middle                               |  |          |
| <input checked="" type="checkbox"/> Sound output | <input type="checkbox"/> Light alarm | <input type="checkbox"/> Trigger Alarm out |          |

|                                       |         |              |          |
|---------------------------------------|---------|--------------|----------|
| Human shape detection                 | Motion  | Defense area | Schedule |
| <b>Mobile detection configuration</b> |         | Save         |          |
| Enable                                | Disable |              |          |

|  |        |              |          |
|--|--------|--------------|----------|
| Human shape detection  | Motion | Defense area | Schedule |
| <b>Defense area</b>  |        | Save         |          |
|  |        |              |          |
|  |        |              |          |

# Specification

## Voice alarm / Audible alarm

1. Audible alarm
2. Humanoid/man-made sound type
3. Delay Time
4. Schedule

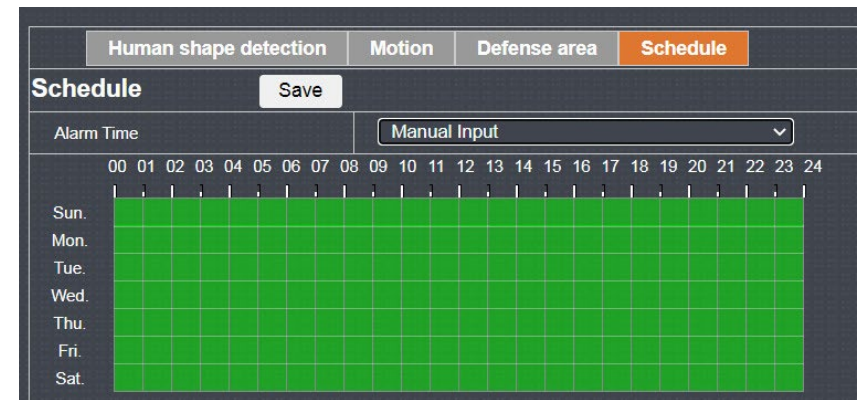
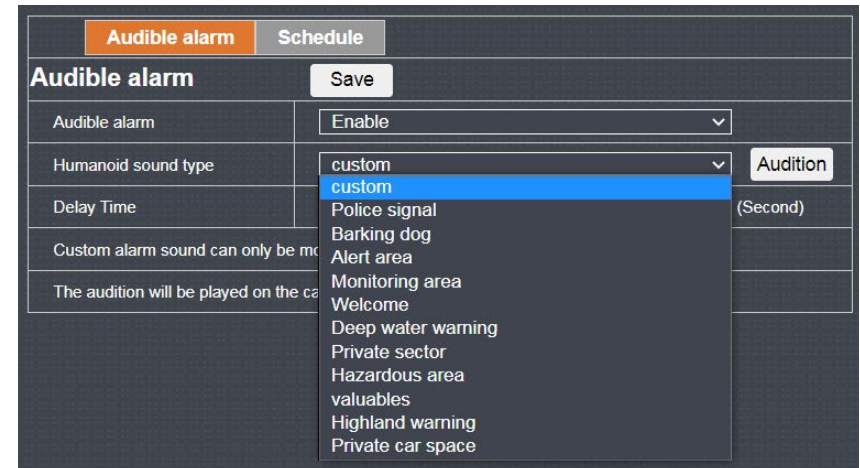
Enable / Disable

Custom, Police signal, Dog barking, Alert area, Monitoring area, Welcome, Deep-water warning, Private sector, Hazardous area, Valuable – Test & Check

(Not available for this camera, need to contact with external speakers)

Select between 1 – 600s

1 hourly increments by day & time



## Light Alarm

- |                  |                                  |
|------------------|----------------------------------|
| 1. Lighting mode | Always Open / Twinkle (Flashing) |
| 2. Delay record  | (1-60 secs)                      |

N.B. This function is only triggered by human movement and will only work during the daylight hours  
(Not available in this camera, need to connect with different IR LED board)

## Overlay settings.

This function gives the option of having a visual alert of a frame surrounding the object of interest, on either the Main or Subcode streams or both.

- |                   |   |
|-------------------|---|
| 1. MainStream     | Options of a visual frame around a human of object. |
| 2. Subcode Stream | Options of a visual frame around a human of object. |

### Light alarm

Save

|               |           |
|---------------|-----------|
| Lighting mode | awaysopen |
| DelayRecord   | twinkle   |

This function is only triggered by humanoid and only works during the day

### Overlay settings

Save

|                |   |  |
|----------------|---|--|
| MainStream     | <input checked="" type="checkbox"/> Human frame | <input checked="" type="checkbox"/> Protective frame |
| Subcode stream | <input checked="" type="checkbox"/> Human frame | <input checked="" type="checkbox"/> Protective frame |



# Specification

## SNB-20XX1T

| VIDEO                 |  |
|-----------------------|--|
| Imaging Device        | 1/3" 4MP GC4653  |
| Total Pixels          | 2,560(H) X 1,440(V) approx. 4M pixels  |
| Effective Pixels      | 1,920(H) X 1,080(V) approx. 2.M pixels default   |
| Min. Illumination     | Colour : 0.01 Lux / B/W : 0 Lux (IR LED) TD/N option (Colour 0.01Lux)  |
| IR LEDs               | 9 x 850nm, 10m Illumination  |
| LENS                  |  |
| Focal Length          | 2.1mm & 3.6mm Options  |
| Angular Field of View | 3.6mm: 76°(H) ~ 41°(W) / 2.1mm: 104°(H) ~ 56°(W)   |
| Lens / Mount Type     | Fixed iris / Board-in type   |
| Image Settings        |  |
| Overlay Information   | Name, Resolution, Bitrate, Channel Inf, Time, Position   |
| Privacy Zones         | Up to 4  |
| Smart Night           | Intelligent Mode, Infrared Light, White light  |
| Image Mode            | Standard, Faceless exposure, License plate mode  |
| IR-Cut Sensitivity    | High, Medium, Low  |
| Delay Interval        | 10 ~ 600s  |
| IR-Cut Reverse        | On/Off   |
| Image Mirror          | Close, Flip Horizontal, Flip Vertical, Flip Centre   |
| Image adjustment      | Brightness, Contrast, Saturation, Chromaticity, Sharpness  |
| Anti Flash Mode       | 50HZ, 60HZ, Close  |
| Aperture Type         | Auto, Manual   |
| Exposure Time         | Auto, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/150, 1/180, 1/480, 1/960, 1/1,000, 1/2,000, 1/4,000, 1/8,000, 1/10,000   |
| Gain                  | Auto, 6db, 12db, 18db, 24db, 30db, 36db, 42db  |
| White Balance         | Incandescent, Warm, Fluorescent, Natural, Manual, Auto, Locked   |
| Denoise 3D            | Auto, Weak, Normal, Strong   |
| BLC                   | Open, Close  |
| WDR                   | Auto, Weak, Normal, Strong   |
| Alarm Settings        |  |
| Audible alarm         | Sound types, Custom, Dog, Alert, Warning, Monitoring, Hazardous area, Welcome, Private sector, Valuables, Private parking spaces.<br>Delay time, before next alarm, 5, 10, 20 30 s |
| Schedules             | All Day, Manual (by day/hour), Night, Day  |
| Alarm Output          | 1 x Name, Delay, Custom/keep, 1 ~ 600 s  |
| Light Mode            | Light mode: Always open, Twinkle, Delay 1 ~ 60 s (daytime only)  |
| Defence area          | Human & Motion, (High, Med, Low) Audible, Light, Selectable zones (shape/size). Overlay for Human, Area by Main & Sub streams  |
| System Settings       |  |
| Date/Time             | Format, 12/24hr, Sync to PC, Sync to Network Time, Daylight Saving   |
| System Log            | All, System, Configuration, Record, User Management, Alarm Event, Exception Event, Storage Management,   |
| NETWORK               |  |
| IP Type               | Manual, DHCP, Auto   |
| Ethernet              | RJ-45 (10/100 BASE-T)  |
| Video Compression     | Main & Sub streams: Video & Audio/ Video, H265+ (H.264/H.265), KFI   |

| Format                                 | 100 ~ 200, FPS (1 ~ 20), VBR/CBR.  |
|--|--|
| Resolution                             | Main code stream: 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720<br>Sub code stream: 800 x 448, 704 x 576, 640 x 360, 352 x 288 |
| Port Configuration                     | HTTP (80), Command Port (6060), Data Port (6066) (Defaults)  |
| RTSP                                   | Port default 554, Mainstream: rtsp://192.168.1.10:554/live/0/MAIN<br>Sub stream: rtsp://192.168.1.10:554/live/0/SUB                |
| Max. Framerate                         | H.265 / H.264: Max. 25fps at all resolutions 2560*1440 (20fps)   |
| Bitrate Control                        | H.265 / H.264: CBR or VBR  |
| Streaming Capability                   | Multiple streaming (Up to 10 profiles)   |
| Image latency                          | Ave. 200ms   |
| Audio In                               | Selectable (Mic in / Line in)  |
| Audio Compression                      | G.711U G.711AFormats   |
| Audio Communication                    | Input & Output volume Adjust.  |
| IP                                     | IPv4, IPv6   |
| Protocol                               | ONVIF, P2P, CGI, HTTP, TCP/IP, IPv4, RTSP, UDP, NTP, DHCP, DNS   |
| Snapshot Config                        | Image Resolution: 640 x 360, Quality (High, Med, Low)  |
| Streaming Method                       | Unicast / Multicast  |
| User Access                            | 1 x Admin, 5 x User  |
| Interface                              | ONVIF profile S, Proprietor API  |
| Viewing/Setup S/W                      | Stortech VMS   |
| ENVIRONMENTAL                          |  |
| Operating Temp /Hum                    | -20°C ~ +55°C /10-95% RH   |
| Ingress Protection / Vandal Resistance | IP67 / IK10  |
| ELECTRICAL                             |  |
| Power                                  | 48V PoE (IEEE802.3af, Class3) or RJ45+12V DC   |
| MECHANICAL                             |  |
| Colour / Material                      | Black  |
| Dimensions (WxH)                       | 76 x 63 x 68mm   |
| Weight                                 | 215g   |

| PROBLEM   | SOLUTION  |
|---|---|
| When a Windows 10 user accesses the webviewer through Chrome or Firefox, the sound volume of the microphone changes periodically. | <ul style="list-style-type: none"> <li>• This is what happens when the microphone driver has been set to the Realtek driver. Install the High-Definition Audio device (Windows Default Driver) or a third-party driver as the microphone driver.</li> </ul>   |
| No video is displayed when accessing the plug-in free webviewer on Safari via HTTPS.  | <ul style="list-style-type: none"> <li>• On the authentication popup window prompted when initially accessing https, click "View Authentication Certificate" and select the "Always trust when connecting to the designated webviewer IP" checkbox.</li> <li>• If the webviewer continues failing to display a video after you select "Next" on the message window below, press the command key+Q to exit the Safari browser, access again and follow the procedures stated above.</li> </ul> |
| I can't access the camera from a web browser.   | <ul style="list-style-type: none"> <li>• Check to make sure that the camera's Network settings are appropriate.</li> <li>• Check to make sure that all network cables have been connected properly.</li> <li>• If connected using DHCP, verify that the camera is able to acquire dynamic IP addresses without any problem.</li> <li>• If the camera is connected to a Broadband Router, verify that port forwarding is properly configured</li> </ul>  |
| Viewer got disconnected during monitoring.  | <ul style="list-style-type: none"> <li>• Connected Viewers become disconnected up on any change to camera or network configurations.</li> <li>• Check all network connections.</li> <li>• If the camera is connected over an PPPoE network, it is possible for the Viewer to disconnect under poor network conditions.</li> </ul>   |
| The camera connected to the network is not detected in the Stortech VMS software program.   | <ul style="list-style-type: none"> <li>• Turn off the fire wall settings on your PC and then search for the camera again.</li> <li>• Some cameras are powered via POE, ensure the POE camera is connected to a POE switch</li> </ul>  |
| No image appears.   | <ul style="list-style-type: none"> <li>• If the transmission method is set to multicast, check whether the router the camera is connected to supports multicast on the LAN.</li> <li>• Pls check if the IP camera address is the same as other devices on the LAN.</li> </ul>   |



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