

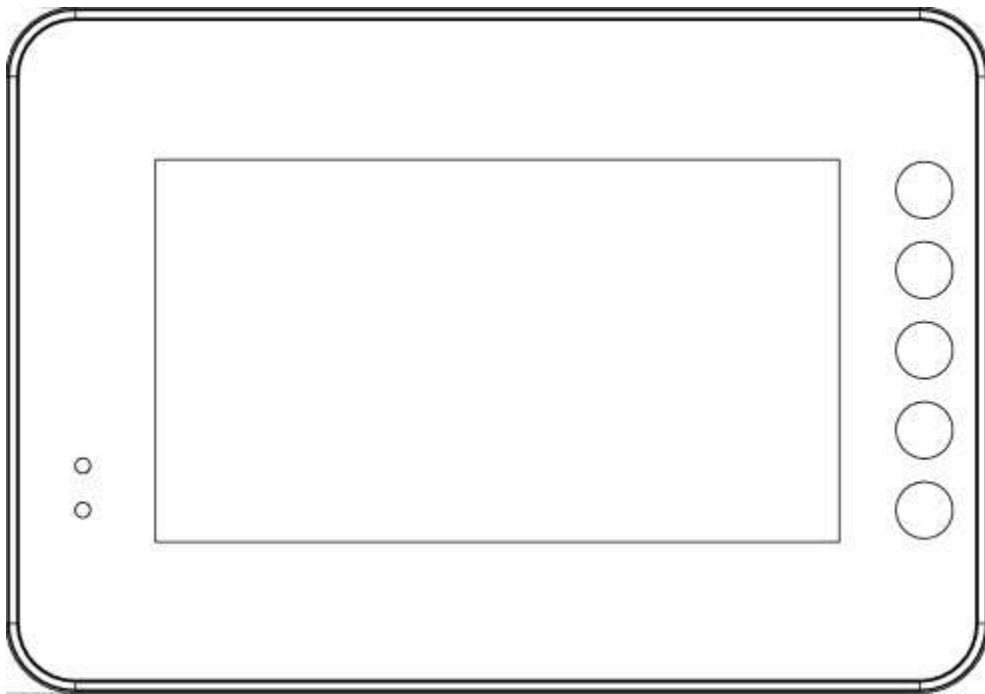
**Intercom**

# Monitor

IC REALTIME SECURITY SOLUTIONS

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IHD-7310: Indoor Monitor



# Instruction Manual

IC REALTIME SECURITY SOLUTIONS

# **IH-7310 Intercom Monitor Instruction Manual**

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## Features and Specifications

*This section outlines the primary features of the ICRealtime IH-7310 Intercom Monitor. It also outlines basic Architectural and Engineering specifications.*

### 1.a Overview

This IC Realtime series product is design to work together with our other Intercom solution devices. The monitor incorporates a fully touch enabled screen for easy operation. It adopts an embedded Linux operating system to maintain reliable, 24/7 operation. Utilizing both H.264 video compression and G.711 audio compression technology enables the highest quality of streaming audio/video, while maintaining the lowest bitrate utilization.

The IH-7310 is a monitor with an integrated microphone designed to be incorporated with one of our Intercom style IP cameras. This monitor is fully suited for full operation as part of ICRealtime's Intercom solution.

The 800x480 screen resolution and simple to use touch sensitive screen is well equipped for installation in various institutions ranging from residential, commercial, governmental, and enterprise environments.

### 1.b Features

IC Realtime IH-7310 series Intercom monitor all support the following features:

- **Real-time Monitoring**

Full 800x480 resolution streaming video at a full 30 FPS.

- **Record Local Streams / Review Messages**

The IH-7310 enables you to record video and take snapshots of your conversation with the person(s) who started the communication through the intercom IP camera. Review missed calls and listen to messages they left.

- **Compression Format**

H.264 video and G.711 audio enables high quality video streaming while maintaining the lowest file sizes possible for smoother monitoring

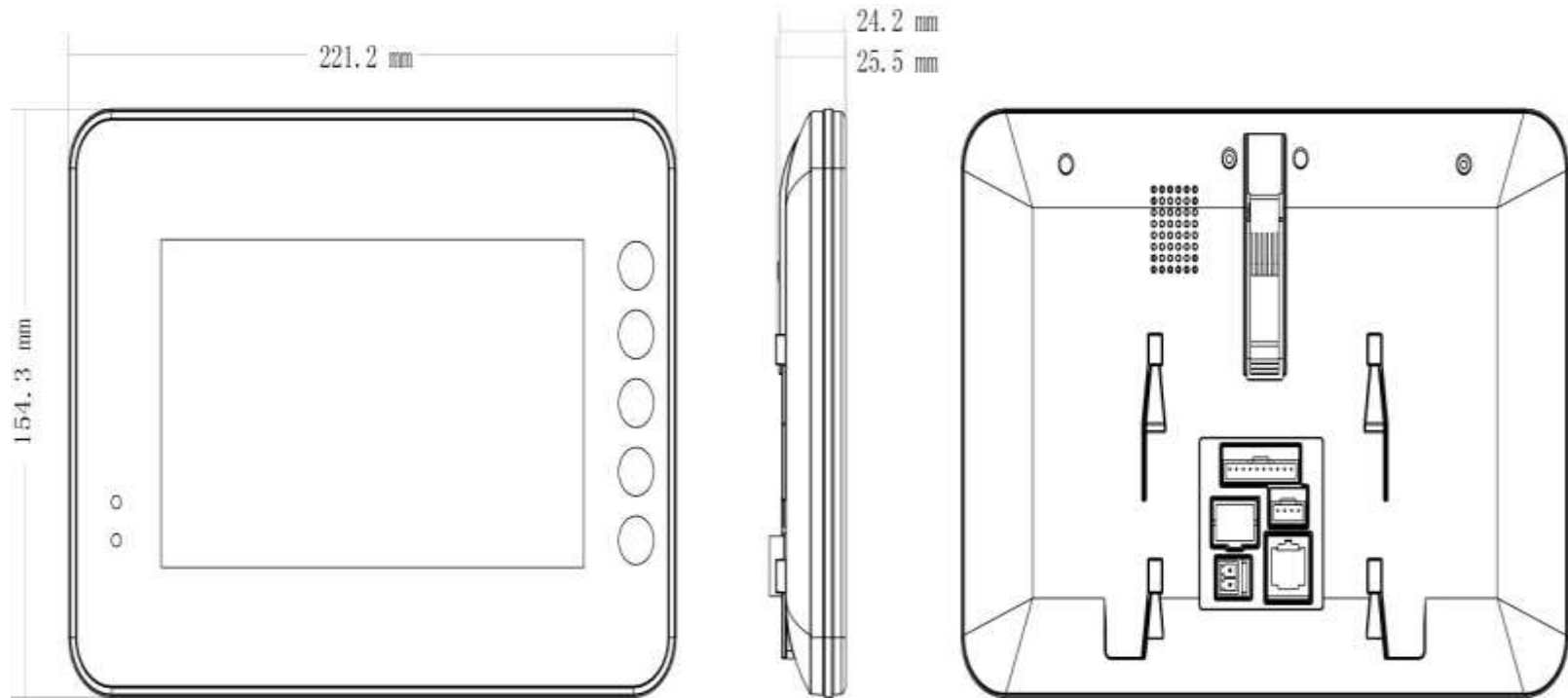
- **Local Operation**

Full system control is available at the monitor itself. No need to access over the network as well configurations can be made at the unit itself.

## 1.c Specifications

| Model           |                    | VTH1560B                                                |
|-----------------|--------------------|---------------------------------------------------------|
| System          | Main Processor     | Built-in microcontroller                                |
|                 | Operation System   | Embedded LINUX operating system                         |
| Video           | compression        | H.264                                                   |
|                 | Resolution         | 800*480                                                 |
| Audio           | Audio Input        | All-direction microphone                                |
|                 | Audio Output       | Embedded loudspeaker                                    |
|                 | Bidirectional Talk | Support bidirectional talk                              |
| Display         | Size               | Color 7-inch TFT LCD                                    |
| Operating modes | input              | Touch screen technology                                 |
| Alarm           | Alarm input        | Support 8 channels input                                |
| Network         | Ethernet           | 10 M / 100 Mbps adaptive                                |
|                 | network protocol   | TCP/IP                                                  |
| General         | Power              | DC 10~15V or supply directly by Special switching power |
|                 | Power Consumption  | Standby ≤1.5W, work≤7W                                  |
|                 | work environment   | Temperature: -10℃~+60℃                                  |
|                 |                    | Humidity: 10~90%RH                                      |
|                 | Dimensions         | 221.2mm×154.3mm×24.2mm (L*W*T) ;                        |
|                 | Weight             | 0.8Kg ;                                                 |

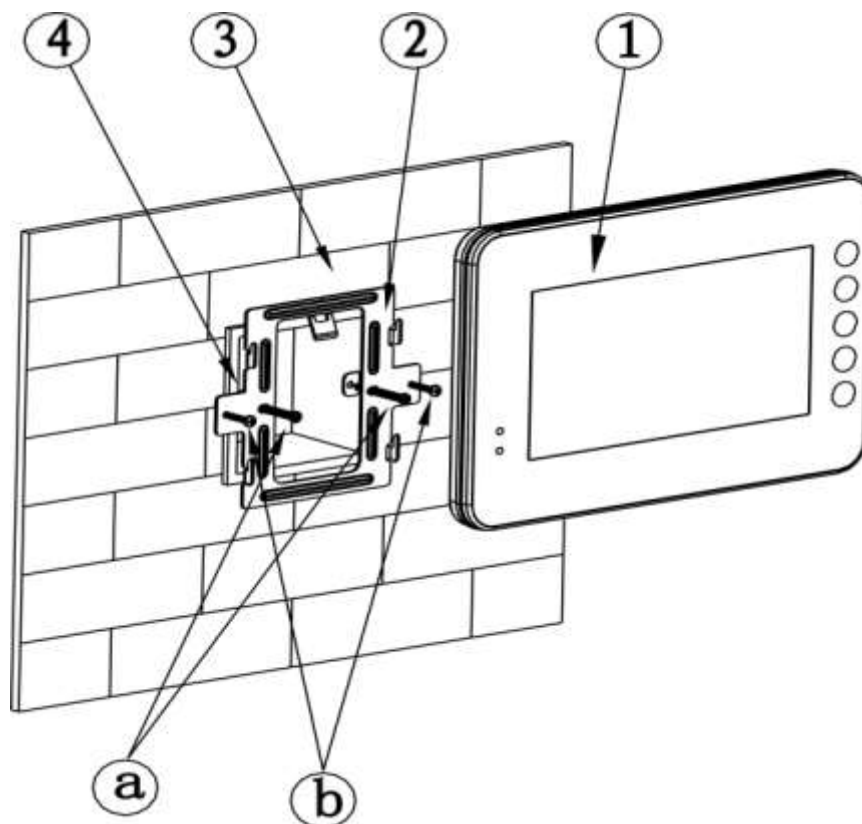
## 1.d Dimensions



## Monitor Installation

*This section outlines the proper way to mount and install an IH-7310 series intercom monitor. The suitable method of installing the monitor is limited to Wall installations only. Note that hardware including screws and anchors are included for the camera installation.*

### 2.a General Overview



## 2.b Step by Step Guide

 Note: Reference the labeled table below for screw type

- **Step 1: Install Wall Bracket to Gang Box (86 Box)**

Begin by using screw 'a' to fasten the wall bracket to your gang box (86 box). Assure a snug fit from the back plate to the wall and Gang Box.

- **Step 2: Fasten to Wall**

Use screw 'b' to fasten to the actual wall. If you need, use anchors ('c') to fasten the screws better to the wall.

- **Step 3: Latch Device to Wall Bracket**

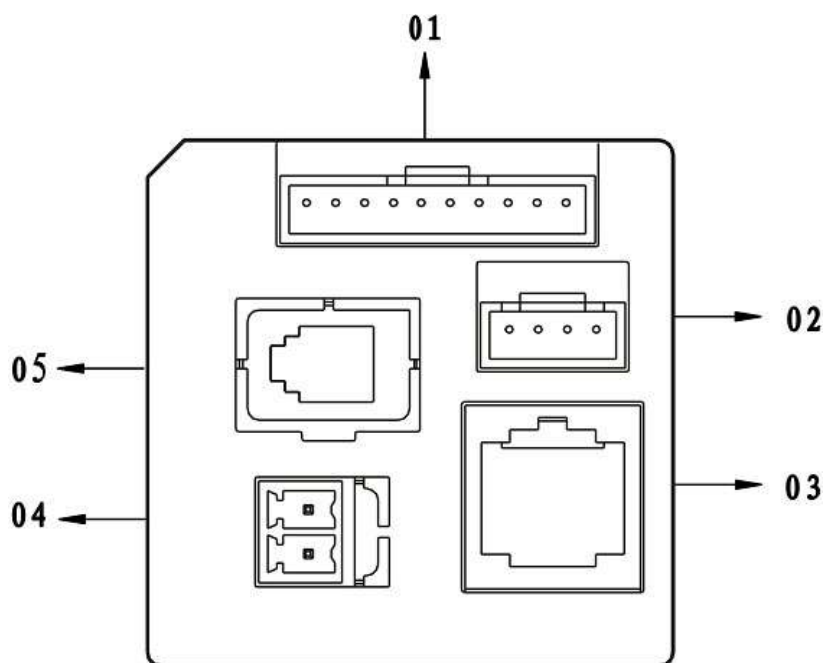
Now that the wall bracket is fasten to your Gang Box and wall, align the installation holes on the back of the IH-7310 with the bracket. Once aligned, pushed forward then gently push down until the clips settle on the latches on the bracket. Assure the unit is sturdy.

- **Step 4: Removing**

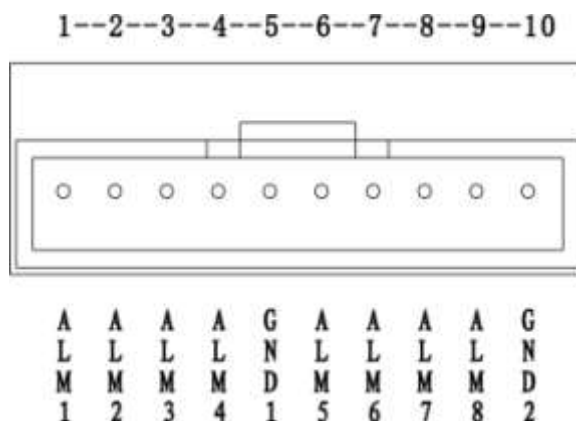
You can gently push up to release the latch clips so that you can then make your power/data connections on the back.

| Screw Illustration |                                                             |                                                                                      |          |
|--------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|
| No.                | Name                                                        | Illustration                                                                         | Quantity |
| a                  | M4×30 Cross recessed pan head screws                        |  | 2        |
| b                  | ST3×18 Cross recessed pan head tapping screws - white alloy |  | 2        |
| c                  | Expansion pipe Φ6*30mm white                                |  | 2        |

## 2.c Connections



| No. | Port Name           | Description                                                           |
|-----|---------------------|-----------------------------------------------------------------------|
| 1   | Alarm Port          | Tie in alarm triggers to this port. See picture below for connections |
| 2   | Test Port           | For debugging only                                                    |
| 3   | Network Port        | RJ45 port to connect to your network                                  |
| 4   | Power Terminal      | To power the unit. 12VDC only!                                        |
| 5   | Analog/Handset Port | Used for analog systems only. Not applicable to this model            |



## Local Screen Operation

*This section outlines how to assign an IP address to the monitor and to navigate through the touch controlled screen*

### 3.a Main Interface

 **Note:** This device does not have a Web Interface and all configuration can be done at the monitor itself. This section will briefly go over the main interface and action buttons.



| No. | Name            | Description                                                                                                                                                          |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Power Indicator | Illuminates when unit is receiving proper power                                                                                                                      |
| 2   | Info Indicator  | Illuminates when unit has a new message or new information that has not been looked at                                                                               |
| 3   | S.O.S           | Attempts to call the management center where all Intercom devices are managed. ! Requires software to monitor                                                        |
| 4   | Main Menu       | Takes you back to the main menu home page                                                                                                                            |
| 5   | Call Center     | Takes you to the call center where you can place a call to other monitors, view missed/placed calls, monitor live cameras that are attached to the device, and more. |
| 6   | Monitor         | View live streams from the cameras that are attached to the device                                                                                                   |
| 7   | Unlock          | Press this button during incoming call, calling, and monitoring, you can unlock corresponding door station                                                           |

## 3.b Network Connection

 Note: Please use the following default passwords access menus: 002236 or 123456

- **Step 1: Ensure the monitor is physically connected to your Network, and Powered ON.**

Patch the monitor into your network with a standard Ethernet cable. Provide the monitor with power via 12VDC power input jack.

- **Step 2: Assign an IP address to the monitor.**

The IH-7310 Series monitor (and all ICRealtime Intercom based monitors) have a factory default static IP address of **10.22.15.180**. You can change this by navigating to the 'Net Set' menu of the unit. Tap on 'Settings' ➡ 'Project Settings' ➡ 'Net Set'. Make sure the IP address you are applying conforms to the networks address scheme. You can also use 'DHCP' to automatically obtain a IP address from the network's DHCP server.

- **Step 3: DHCP**

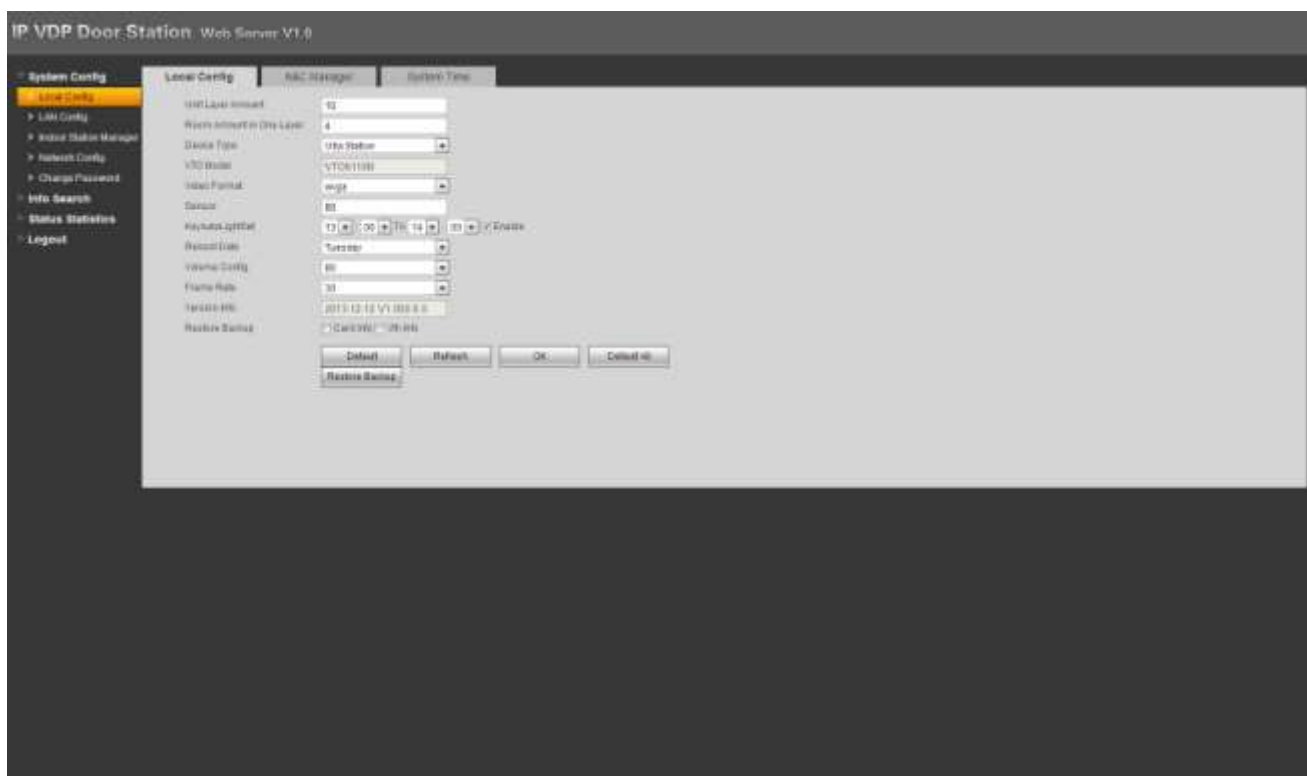
While still in the 'Net Set' section of the unit choose 'DHCP' and tap 'Ok'. It should grab an available IP address if there is a DHCP server on the network. We would advise to use a static address once you find an open IP on the network. Thus you will always know what the IP is of the unit and it will never change.

 Note: DHCP addresses have lease times to them. You may obtain a new address when that lease time runs out or it may stay the same. It is always good to set a static IP to assure it will not change.

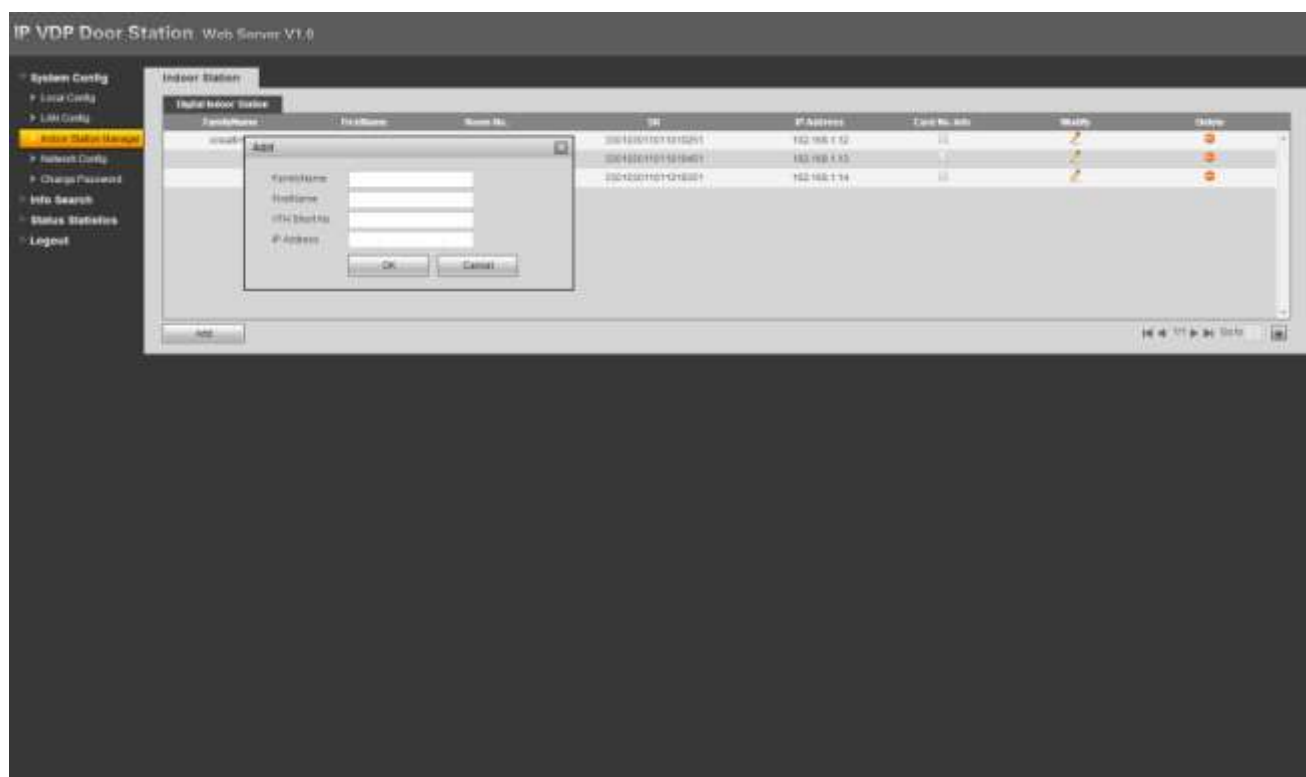
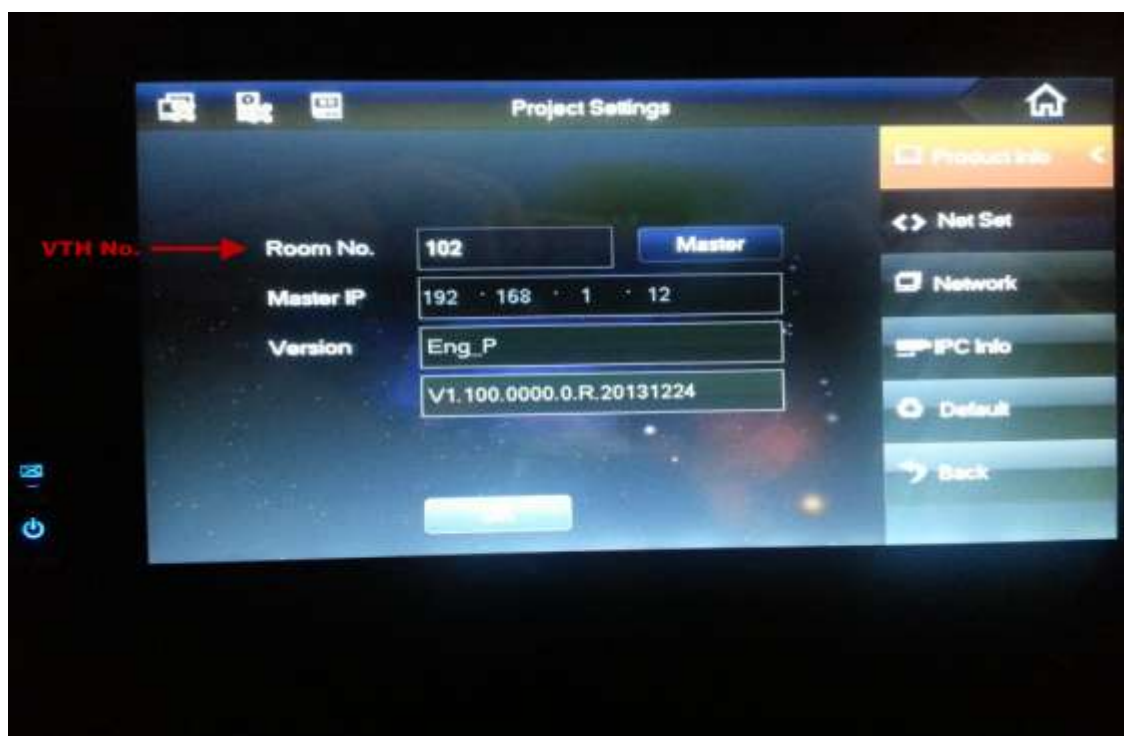
### 3.c Pairing with Outdoor IP Camera

 Note: This section mainly references how to sync our Intercom outdoor IP cameras such as the IHC-6260 with a indoor monitor to complete a intercom setup. Note that this will reference your indoor monitor setup. Be sure the monitor is online and ready to be used on the network. Please reference our other guides for a complete setup. <http://www.icrealtime.com/forum>(click on how-to notes and then 'Access Control')

- First start with accessing the outdoor IP camera (IHC-6260) as followed by its manual. You should be greeted by a screen like below.



- Click on the menu option of '**Indoor Station Manager**'. This is where you will be adding your indoor monitor so they are paired to each other. If you see a 'demo' monitor already added, click the icon under '**delete**' to rid of it.
- Next, click on the '**add**' button at the bottom of the table. Add in a name for the family/location you are installing for (this is simply for organizational purposes). Add the short number of the indoor monitor (see indoor monitor walkthrough for more detail). Finally, add the IP address of the indoor monitor.



- You should now see the added indoor monitor information on the table. You will now need to access the indoor monitor to add the IP address of this camera so to complete the pairing.

- Navigate on the IH-7310 to 'Settings' ➔ 'Project Settings' ➔ 'Network'. Here you will input the IP address of the outdoor camera (IHC-6260). Tap the 'enable' option to turn that camera to being active. You should now be able to make a call from the outdoor IP camera to the monitor



## Appendix: Toxic or Hazard Materials Report

| Component Name          | Toxic or Hazardous Materials or Elements |    |    |       |     |      |
|-------------------------|------------------------------------------|----|----|-------|-----|------|
|                         | Pb                                       | Hg | Cd | Cr VI | PBB | PBDE |
| Circuit Board Component | ○                                        | ○  | ○  | ○     | ○   | ○    |
| Device Case             | ○                                        | ○  | ○  | ○     | ○   | ○    |
| Wire and Cable          | ○                                        | ○  | ○  | ○     | ○   | ○    |
| Packing Components      | ○                                        | ○  | ○  | ○     | ○   | ○    |
| Accessories             | ○                                        | ○  | ○  | ○     | ○   | ○    |

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

### Note

- This user manual is intended for reference only. Slight differences may be found in the user interface as products continually develop.
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