

# Edge Computing COVID-19 Defender Quick Manual

Version 1.2.0

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## 1. Introduction

There will be two interfaces for the COVID Defender: Dashboard and the COVID Defender configuration.

- URL access to Dashboard <u>http://localhost/dashboard.html</u>
- URL access to COVID Defender configuration <u>http://localhost/admin/index.html</u>
- (If accessing from other PC, change the localhost to AB-101 IP address)



# Dashboard

### COVID Defender configuration

| <b>VIVOTEK</b> |   |  |            |            |                   | admin 🗸 💮                  | English        |
|----------------|---|--|------------|------------|-------------------|----------------------------|----------------|
| Admin Console  |   | Admin Console  |            |            |                   |                            |                |
| Device         |   | Current Visitor  |            | Last Visit | MORE >            | Last Abnormal              | MORE >         |
| Incident       | > |  | 4          |            |                   |                            |                |
| Report         | > |  |            |            | 20.5              |                            |                |
| System         | > | <b>2</b> /100  |            | 62         | Body<br>temperatu |                            |                |
|                |   | Current /<br>Maximum   |            |            | temperatu         |                            | Body           |
|                |   | (2%)   |            |            | <b>E</b>          |                            | tempera        |
|                |   |  |            |            |                   |                            |                |
|                |   |  |            |            |                   |                            |                |
|                |   | visitor statistics   |            |            |                   | Incident Statistics        |                |
|                |   | Neveral server   |            | Month Mank | Date              |                            |                |
|                |   | Normal access     Access count                                 | nal access | Month Week | Day               | Month Week                 | Day            |
|                |   | Normal access      Access count     100                        | nal access | Month Week | Day               | Abnormal Temperature Dete  | cted 0         |
|                |   | Normal access     Abnom     Access count     100     B0        | nal access | Month Week | Day               | Abnormal Temperature Deter | cted 0         |
|                |   | Normal access     Abnom     Access count     100     80     60 | nal access | Month Week | Day               | Abnormal Temperature Dete  | ody<br>cted 0  |
|                |   | Normal access     Access count     100     80     60     40    | nal access | Month Week | Day               | Abnormal Temperature Dete  | ody<br>ccted 0 |
|                |   | Normal access     Abnorn Access count     100  80  40  20      | nal access | Month Week | Day               | Abnormal Temperature Dete  | ody<br>cted 0  |

#### 2. Dashboard schematic diagram



## 3. Admin Console

1. The IPC comes with a default account. The account name is "Covid Defender." The default user name and password are: admin1/admin1

| User Accounts |                   |                                    |          | <b>†↓ En ∢</b> 0) 09:37 ∰ |
|---------------|-------------------|------------------------------------|----------|---------------------------|
| 0             |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
| S             |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
|               | 🛇 🗇 User Accounts |                                    |          |                           |
|               |                   |                                    | - Unlock |                           |
|               | Mutermut          |                                    |          |                           |
|               | admini            | Ovvid Defender                     |          | A = X = 7                 |
| a             |                   | Account Type Administrator         |          |                           |
|               |                   | Login Options                      |          |                           |
| 2             |                   | Password ++++                      |          |                           |
|               |                   | Last Login Logged in               | History  |                           |
|               |                   |                                    |          |                           |
|               | + -               | Show my login name in the menu bar |          |                           |
|               |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
|               |                   |                                    |          |                           |
| <b>1</b>      |                   |                                    |          |                           |
|               |                   |                                    |          |                           |

You can also find the password on a name tag of the machine.

You may need to change the AB-101's IP address once you power on the machine.

- Below are the default addresses of the machines in the COVID-19 Defender solution.
   AB-101(IPC): 10.0.0.140
   AF-101(FR reader): 10.0.0.141
   SC8131: Listening to DHCP server.
   Configure the IP addresses of these machines to be in the same subnet.
- 2-1. On the left pane, click to open **System settings**.



2-2. Select Network. Double-click to open the settings.



|  | 2-3. | Select the | appropriate | wired | connection. | Click on | Options. |
|--|------|------------|-------------|-------|-------------|----------|----------|
|--|------|------------|-------------|-------|-------------|----------|----------|

| 😣 🔵 Network  |   |                   |
|--|---|-------------------|
| All Settings Network   |   | Airplane Mode OFF |
| Image: Wired         Image: Wired | Wired<br>Connected - 100 Mb/s<br>Hardware Address 00:E0:67:1F:A4:2D<br>IPv4 Address 10.0.0.140<br>IPv6 Address fe80::92e2:1b9:23fb:6676<br>Default Route 10.0.0.1 | ON                |
| + -  |   | Options           |

# 2-4. Click the IPv4 Settings tab.

| 🛛 🖨 Network  |   |   |                      |                   |          |
|--|---|---|----------------------|-------------------|----------|
| All Settings Net   | 8 🔵 🗊 Editing Wire  | d connection 1                          |                      | Airolane          | Mode OFF |
| 1       Wired         1       Wired         1       Wired         Image: Second sec | Connection name:<br>General Ethernet &<br>Method: Manual<br>Addresses | ired connection 1<br>302.1x Security DC | B IPv4 Settings IPv6 | Settings          | ON       |
|  | Address<br>10.0.0.140   | Netmask<br>24                           | Gateway<br>10.0.0.1  | Add Delete        |          |
| + -  | DNS servers:<br>Search domains:<br>DHCP client ID:                    |   |                      |                   | Options  |
|  | Require IPv4 add  | dressing for this cor                   | nnection to complete | Routes<br>el Save |          |

2-5. Enter the IPv4 address, Network mask, Gateway, and DNS server addresses. When done, click Save.

| CO Network  |  |                                       |                      |               |            |
|---|--|---------------------------------------|----------------------|---------------|------------|
| All Settings Net  | work<br>😣 🖨 🗊 Editing Wir                          | ed connection 1                       |                      | Airolar       | e Mode OFF |
| tu Wired<br>tu Wired  | Connection name:<br>General Ethernet               | Wired connection 1<br>802.1x Security | DCB IPv4 Settings    | IPv6 Settings |            |
| Use         Wired           Image: Wired         Image: Wired | Method: Manual Addresses                           |                                       |                      | •             |            |
|   | Address<br>10.42.1.55                              | Netmask<br>255.255.255.0              | Gateway<br>10.42.1.1 | Add Delete    |            |
| + -   | DNS servers:<br>Search domains:<br>DHCP client ID: | 192.168.0.21                          |                      |               | Options    |
|   | Require IPv4 a                                     | ddressing for th <mark>i</mark> s c   | connection to comple | Routes        |            |
|   |  |                                       |                      | Cancel Save   |            |

#### 2-6. When done, turn OFF, and then turn ON the wired connection.

| Network     All Settings Network  |  | Airplane Mode OFF |
|---|--|-------------------|
| <ul> <li>Wired</li> <li>Wired</li> <li>Wired</li> <li>Wired</li> <li>Retwork proxy</li> </ul> | Wired<br>Connected - 100 Mb/s<br>Hardware Address 00:E0:67:1F:A4:2D<br>IPv4 Address 10.42:1.55<br>IPv6 Address fe80::92e2:1b9:23fb:6676<br>Default Route 10.42:1.4<br>DNS 192:168.0.21 |                   |
| + -   |  | Options           |

2-7. Open your Chrome browser, and then click on the **Ultimo Covid** shortcut.

| Google     | ⊂File Edit V            | /iew History Tools Pe | ople Help |  |            |                     |
|------------|-------------------------|-----------------------|-----------|--|------------|---------------------|
| Q          | 8                       | New Tab               | × +       |  |            |                     |
|            | $\langle \cdot \rangle$ | × (G                  |           |  |            |                     |
|            | 🚺 Apps                  | 🔇 Ultimo Covid 🔇 D    | ashboard  |  |            |                     |
| 6          |                         | $\sim$                |           |  |            |                     |
|            |                         | $  \setminus$         |           |  |            |                     |
|            |                         | $\backslash$          | ×         |  |            | C                   |
| P          |                         |                       |           |  |            | GC                  |
| A          |                         |                       |           |  |            |                     |
| <u>a</u> , |                         |                       |           |  | Q Search C | Soogle or type a UF |
| <b>%</b>   |                         | N                     |           |  | L          | C                   |
|            | (                       | 2                     |           |  |            |                     |

## 2-8. Go to **System** $\rightarrow$ **System Settings**. Scroll down to find the Network Setting.

| Google   | Chrome                          |   |                     |   |   |     | L En «× | 11:46 😳 |
|----------|---------------------------------|---|---------------------|---|---|-----|---------|---------|
| Q        | 0 🔿 🖸                           | Oltimo Covid  | × +                 |   |   |     |         |         |
|          | $\leftrightarrow$ $\rightarrow$ | C () localhost/ad   | min/index.html#/sys | stemSetting   |   | 01  | , Q ☆   | Θ :     |
|          |                                 | <b>XVIV</b> OTEK  |                     |   | admin v   | ~ 🖂 | English | ~       |
|          |                                 | Admin Console     Device     Incident     Report     System     Account | ><br>><br>~         | Advanced Settings A<br>Smart Face<br>* Face Snapshot Max. Pixel:<br>* Face Snapshot Min, Pixel:<br>* Temp. Taking Face Min. Pixiel: | 0       (300-500)         0       (30-300)         0       (0-500)         0       (1-90) | 1   | SAVE    |         |
| <u>a</u> |                                 | - Curton Cation   |                     | - Pace Quany.   | (*-**)  |     |         |         |
| 2        |                                 | <ul> <li>System Setting</li> <li>System Log</li> </ul>                  |                     | SMTP Setting  |   | I   | SAVE    |         |
| 9        | 1                               |   |                     | <ul> <li>Sender:</li> </ul>   |   |     |         |         |
|          |                                 |   |                     | * Host:   |   |     |         |         |
|          |                                 |   |                     | * Port:   | 0   |     |         |         |
|          |                                 |   |                     | * User SSL:   | 🔿 True 🛛 🖲 False  |     |         |         |
|          |                                 |   |                     | Authorize:  | Ves 🖲 No  |     |         |         |
|          |                                 |   |                     | Network Setting   |   | 1   | SAVE    |         |
|          |                                 |   |                     | • IP: 🔀   | 10.0.0.140  |     |         |         |
|          |                                 |   |                     | * Port:   | 80  |     |         |         |
|          |                                 |   |                     |   |   |     |         |         |

2-9. Enter the IPv4 address you had just configured. Click **Save** to preserve the settings.

| gle Chrome   |  | t₁ En 4× 11:47 :      |
|--|--|-----------------------|
| 🕥 🗢 🔍 🔇 Ultimo Covid 🛛 🔹 🔪   |  |                       |
| ← → C ③ localhost/admin/index.html#/   | stemSetting  | Q 🖈 🖯                 |
| <b>XVIV</b> OTEK   | Successfully operation!  | admin 🗸 💮 🛛 English 🗸 |
| Admin Console<br>Device<br>Device<br>Report<br>Console<br>Console<br>Report<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>Console<br>C | Advanced Settings ~           Smart Face           * Face Snapshot Max. Plose!         0         (300-500)           * Face Snapshot Min. Plose!         0         (30-300)           * Face Snapshot Min. Plose!         0         (0-500)           * Temp. Taking Face Min. Plose!         0         (0-500)           * Face Quality:         0         (1-59)           SMTP Setting             * Sender:         Please Input            * Host:         Please Input            * User SSL:         True @ False            * Authoriza:         Yes<@ No            * IP:         10.421.55            * Port:         80 | SA/E<br>SA/E          |

3. Open the Chrome browser embedded in the IPC. There are two embedded hot links on the top of the browser: **Ultimo Covid** and **Dashboard**.



Opening the Dashboard does not require a password.

| Google   | Chrome                             | † <b>i En</b> ≪ 19:02 🛟 |
|----------|------------------------------------|-------------------------|
| 0        | 🗢 🖲 ultime Cevid x 😵 Dashboard x + |                         |
|          | ← → C () locathory/dashboardhimi   | ९ \star \varTheta ।     |
|          |                                    | _                       |
| (2)      | <u>&amp; vivotek</u>               |                         |
|          |                                    |                         |
|          |                                    |                         |
|          |                                    |                         |
|          | Welcome                            |                         |
|          | vvclcome                           |                         |
| A        |                                    |                         |
| a        |                                    |                         |
|          |                                    |                         |
| 4        |                                    |                         |
| 9        |                                    |                         |
|          |                                    |                         |
| $\simeq$ |                                    |                         |
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|          |                                    |                         |
|          |                                    |                         |
|          |                                    |                         |
|          |                                    |                         |
|          |                                    |                         |
|          |                                    | 1                       |
| _        |                                    |                         |
| -        |                                    |                         |

The default user name and password for access to the Ultimo Covid interface are admin/admin.

VIVOTEK INC. Edge Computing COVID-19 Defender

| Google | e Chrome                                  | ti 🖬 🐗 09:49 🛟 |
|--------|---|----------------|
| 0      | Q ⊕ @ O Ultimo Covid × +                  |                |
|        | ← → C ① localhost/admin/index.html#/login | २ \star 😝 ।    |
|        |   |                |
| (2)    |   |                |
|        |   |                |
|        |   |                |
| Ę      |   |                |
|        |   |                |
| a,     | COVID DEFENDER                            |                |
| 22     | A Username                                |                |
| 0      |   |                |
| _      | 8 Password                                |                |
|        |   |                |
|        | Login                                     |                |
|        |   |                |
|        |   |                |
|        |   |                |
|        |   |                |
|        |   |                |
|        |   |                |
|        |   |                |
| -      |   |                |

| S Ultimo Covid   | × +                                |                       | - 8 ×      |
|------------------|------------------------------------|-----------------------|------------|
| + C A Not secure | 10.0.0.140/admin/index.html#/login |                       | or 🚖 🤷 🕕 🚺 |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    | <b>COVID DEFENDER</b> |            |
|                  |                                    |                       |            |
|                  |                                    | 8 Usemame             |            |
|                  |                                    | 1 manual              |            |
|                  |                                    | 8 Password            |            |
|                  |                                    |                       |            |
|                  |                                    | LOGIN                 |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |
|                  |                                    |                       |            |

Once the access to COVID defender URL is made, the login page prompts. The default username/password for COVID defender will be <u>admin/admin.</u>

| ø      | Admin Console      |   |
|--------|--------------------|---|
| =      | Device<br>Incident | > |
| •<br>• | Report<br>System   | > |
|        |                    |   |
|        |                    |   |

After login, it redirects to the Admin Console page. The current visitor indicates the current visitor/maximum numbers of visitors. Last Visit indicates the information for the last visitor (who passed both mask detection and body temperature). The Last Abnormal indicates the person who failed to comply (failed mask detection or body temperature check). By clicking more will redirect to the report page for more access information.

| Visitor Statistics                |  |  |  |  |  |  |  |  |  |
|-----------------------------------|--|--|--|--|--|--|--|--|--|
| 🔵 Normal access 🥚 Abnormal access | Month Week Day                         |  |  |  |  |  |  |  |  |
| Access count<br>100 -             |  |  |  |  |  |  |  |  |  |
| 80 -                              |  |  |  |  |  |  |  |  |  |
| 60 -                              |  |  |  |  |  |  |  |  |  |
| 40 -                              |  |  |  |  |  |  |  |  |  |
| 20 -                              |  |  |  |  |  |  |  |  |  |
| 00 01 02 03 04 05 06 07 08 09 10  | 11 12 13 14 15 16 17 18 19 20 21 22 23 |  |  |  |  |  |  |  |  |

Visitor statistics shows access count and a chart for normal accesses and abnormal accesses. Blue represents normal access and red represents abnormal access. The chart can be arranged in order by month, week or day.

| Incident Statistics           | \$  |  | lear icon               |
|-------------------------------|-----|--|-------------------------|
| Month Week                    | Day |  |                         |
| Abnormal Temperature Detected | 2   | The Incident statistics sho                              | ows how many times      |
|                               |     | ordered by month, week                                   | or day. By clicking the |
| No Mask Wearing Detected      | 0   | Gear icon, you can select                                | t which incident to     |
|                               |     | indicate.  |                         |
|                               |     |  |                         |
|                               |     | Incident Statistics                                      | <b>\$</b>               |
|                               |     | Abnormal Temperature Detect     No Mask Wearing Detected | ed                      |
|                               |     | Visitor Limit Exceed                                     |                         |
|                               |     |  |                         |
|                               |     |  |                         |
|                               |     | 2/3  |                         |
|                               |     |  |                         |
|                               |     |  |                         |
|                               |     |  |                         |
|                               |     |  |                         |

## 4. Device

|          | <b>VIV</b> OTEK |                      |                 |            |            |                            | admin 🗸 💮              | English V |
|----------|-----------------|----------------------|-----------------|------------|------------|----------------------------|------------------------|-----------|
| ø        | Admin Console   | Device               |                 |            | Mar        | iual add devi              | ce                     |           |
| =        | Device          | Device Name          | Device Ty       | oe 🗸       | ٩          |                            |                        |           |
| <u>0</u> | Incident >      | Online Device: 2 Off | fline Device: 0 |            |            |                            |                        | EQ E+     |
| ∎        | Report >        | Device Name          | Device Type     | Group Name | IP         | Status                     | Add Time               | Operation |
| ₽.<br>P  | System >        | VVK                  | Vivotek Camera  | Default    | 10.0.0.142 | <ul> <li>Online</li> </ul> | 28-07-2020<br>13:49:37 | C 🗇       |
|          |                 | FR                   | JVT Terminal    | Default    | 10.0.0.141 | • Online                   | 28-07-2020<br>13:49:04 | C 🗇       |
|          |                 | Online/of            | fline device    |            |            | 10 ~                       | K < 1/1 > >            | 1 Go      |

The Device page manages the devices that are connected to the AB-101. We can see device name, device type, group name, IP Address, status, add time. Other than that you can perform operation like edit and delete. You can use the device name and device type to search for the device. Besides, we can tell the device online/offline status at a glance by looking at the online/offline device.

|              |                |           | DEVICE DISCOVE | RY         | ×         |
|--------------|----------------|-----------|----------------|------------|-----------|
|              |                |           | Device Type    | Device IP  | Operation |
|              |                | ×         | Vivotek Camera | 10.0.0.128 | ADD       |
| Device Name: |                |           | Vivotek Camera | 10.0.0.133 | ADD       |
| Device Type: | Vivotek Camera | ·         | Vivotek Camera | 10.0.0.121 | ADD       |
| Device IP:   | 10.0.0.128     | Click add | Vivotek Camera | 10.0.0.122 | ADD       |
| Login name:  |                |           | Vivotek Camera | 10.0.0.125 | ADD       |
| Password:    |                |           | Vivotek Camera | 10.0.0.126 | ADD       |
|              | CONFIRM        | CANCEL    | Vivotek Camera | 10.0.0.127 | ADD       |

Clicking device discovery allows us to search the devices (VIVOTEK Camera or JVT

Terminal) under same range. After click add, we can see the device type and device IP are filled in, at the moment we still need to finish the remaining input box to complete the add device process.

• The precondition is: you must configure the network settings under System Setting before a device can be added to the configuration.

By clicking manual add device you can add device manually. Device type must tally with the actual device (We can select only JVT Terminal or VIVOTEK Camera). Fill in all necessary information in order to add device.

|                | ×              |
|----------------|----------------|
| * Device Name: | Please input   |
| * Device Type: | JVT Terminal V |
| * Device IP:   | Please input   |
| *Login name:   | Please input   |
| * Password:    | Please input   |
|                | CONFIRM        |

### 5. Incident

#### 5.1 Incident Message

This page shows the incident messages of the system. The Administrator configured with message reception in all incidents can receive messages triggered by this incident. We can search the incident message based on ID, Incident name, Incident type and status.

| Console       | In                         |  |  |  |   |   |  |  |   |
|---------------|----------------------------|--|--|--|---|---|--|--|---|
|               |                            | cident / Inc                                       | cident Message                                     |  |   |   |  |  |   |
| ;             |                            |  |  | ame  | Incide  | nt type 🗸 🗸   | Status   | ~  | Q   |
| nt            | ~                          | ID   | Incident Name                                      | Incident Type  |   | Time  | Status   |  | Operation   |
| ident Message |                            | 2  | Abnormal Temperature<br>Detection                  | Abnormal Tempera<br>Detected   | ature   | 12-08-2020 12:27:14   | <ul> <li>Read</li> </ul>   |  |   |
| ident Setting |                            | 1  | Abnormal Temperature<br>Detection                  | Abnormal Tempera   | ature   | 12-08-2020 12:05:54   | • Read   |  | E   |
| n             | >                          |  |  |  |   |   | 10 v K <   | <b>1/1 &gt;</b>  | 1 Go  |
|               |                            |  |  |  |   |   |  |  |   |
|               |                            |  |  |  |   |   |  |  |   |
|               |                            |  |  |  |   |   |  |  |   |
|               |                            |  |  |  |   |   |  |  |   |
|               | nt Message<br>dent Setting | tt ✓<br>dent Message<br>dent Setting<br>h →<br>h → | tt × ID<br>dent Message 2<br>dent Setting 1<br>n > | ID     Incident Name       dent Message     2     Abnormal Temperature<br>Detection       dent Setting     1     Abnormal Temperature<br>Detection       n     > | ID     Incident Name     Incident Type       dent Message<br>dent Setting     2     Abnormal Temperature<br>Detection     Abnormal Temperature<br>Detected       1     Abnormal Temperature<br>Detection     Detected       n     > | ID     Incident Name     Incident Type       dent Message     2     Abnormal Temperature<br>Detection     Abnormal Temperature<br>Detected       1     Abnormal Temperature<br>Detection     Abnormal Temperature<br>Detected       n     > | ID       Incident Name       Incident Type       Time         dent Message<br>dent Setting       2       Abnormal Temperature<br>Detection       Abnormal Temperature<br>Detected       12-08-2020 12:27:14         1       Abnormal Temperature<br>Detection       Detected       12-08-2020 12:05:54         n       > | ID     Incident Name     Incident Type     Time     Status       dent Message<br>dent Setting     2     Abnormal Temperature<br>Detection     Abnormal Temperature<br>Detected     12-08-2020 12:27:14     • Read       1     Abnormal Temperature<br>Detection     Detected     12-08-2020 12:05:54     • Read       n     >     Image: Status     10 v K < | ID       Incident Name       Incident Type       Time       Status         dent Message<br>dent Setting       2       Abnormal Temperature<br>Detection       Abnormal Temperature<br>Detected       12-08-2020 12:27:14       • Read         1       Abnormal Temperature<br>Detection       Abnormal Temperature<br>Detected       12-08-2020 12:05:54       • Read         n       >       Image: Status       Image: Status       Image: Status       Image: Status |

| INCIDENT D      | ETAIL ×   | l |
|-----------------|---|---|
| Device Informa  | ition   | l |
| Device Name:    | FR  | I |
| Device Type:    | JVT Terminal  | I |
| Device IP:      | 10.0.0.141  | I |
| Incident Inform | ation   | I |
| Incident ID:    | a3edb141-3327-4444-b4b1-3a1f21e140cf  | I |
| Incident Name:  | Abnormal Temperature Detection  | I |
| Incident Type:  | Abnormal Temperature Detected   | L |
| Description:    | FR detects abnormal body temperature 37.6°C higher than our threshold 37.0°C. |   |
| Time:           | 2020/08/12 12:05:54:621   | L |
|                 | CLOSE   |   |

By clicking details button, you can see more information.

#### 5.2 Incident setting

|           | <b>XVIVOTEK</b>  |   |                                   |                                  |                                    | admin 🗸                   | 💬 English 🗸   |
|-----------|--|---|-----------------------------------|----------------------------------|------------------------------------|---------------------------|---------------|
| 3<br>II 9 | Admin Console<br>Device<br>Incident                                  | · | Incident / Incident Se            | tting                            | ✓ Status                           | ~ Q                       | ADD incident  |
|           | <ul> <li>Incident Message</li> </ul>                                 |   | Incident Name                     | Incident Type                    | Last Update                        | Status                    | Operation     |
| E C       | <ul> <li>Incident Setting</li> <li>Report</li> <li>System</li> </ul> | > | Abnormal Temperature<br>Detection | Abnormal Temperature<br>Detected | 12-08-2020 12:04:31<br>Edit button | Active     10 ~ K < 1 / 1 | Delete button |

The Incident setting page shows a list of all system incidents added by the administrator. Administrators can add new incidents, edit incidents, or delete incidents, etc.

| Incident / Add Incid                  | ent                 |                                     |                     |           |
|---------------------------------------|---------------------|-------------------------------------|---------------------|-----------|
| <ul> <li>Basic Informat</li> </ul>    | tion                |                                     |                     |           |
| * Incident Name:                      | Abnormal temperatur | e                                   |                     |           |
| *Incident Type:                       | Abnormal Temperatur | re Detected                         | ~                   |           |
| * Status:                             |                     |                                     |                     |           |
| <ul> <li>Input Information</li> </ul> | ion                 |                                     |                     |           |
| Devices:                              | FR ×                |                                     | ~                   |           |
| Output Information                    | ation               |                                     |                     |           |
| Method:                               | Message             | Device_NameBody_Temperature<br>hold | Body_Temperature_Th | ires 🖸    |
|                                       | Email               |                                     |                     | Ľ         |
|                                       | <b>I</b> /O         |                                     |                     | Ľ         |
| Receiver:                             | + admin ×           |                                     |                     |           |
| SAVE                                  |                     |                                     | Ed                  | it button |
|                                       |                     |                                     |                     |           |

Below are the steps to add an incident:

- 1) Enter the incident name.
- 2) Select incident type.
- 3) Make sure status is on (green represents on, grey represents off).
- 4) Input information, under the dropdown list, select the corresponding device.
- 5) Output information, select the output method of incident triggered, Email, SMS,
- Message. By clicking edit button to insert template/ add on information.
- 6) Select the receiver to receive the message.

## 5.3 Normal access

|              | VIVOTEK         |   |                    |                       |                       | Reset button | admin 🗸 💮 | English 🗸              |
|--------------|-----------------|---|--------------------|-----------------------|-----------------------|--------------|-----------|------------------------|
| Adn          | nin Console     |   | Report / No        | rmal Access           | Search button         | 1            | [         | Download button        |
| ■ Dev        | vice<br>dent    | > | ID<br>Access Time: | Mask 12-08-2020 00:00 | ×<br>13-08-2020 00:00 | Q C          |           |                        |
| Rep          | Normal Access   | ~ | ID                 | Photo                 | Temperature           |              | Wear Mask | Access Time            |
| □ A<br>🛱 Sys | Abnormal Access | > | 18                 | 9                     | 36.7°C                |              | 0         | 12-08-2020<br>14:41:38 |
|              |                 |   | 16                 |                       | 36.5℃                 |              | ø         | 12-08-2020<br>13:50:06 |
|              |                 |   | 14                 |                       | 36.4°C                |              | Ø         | 12-08-2020<br>13:49:49 |
|              |                 |   | 9                  | 3                     | 36.5℃                 |              | 0         | 12-08-2020<br>11:53:10 |
|              |                 |   | 8                  | 2                     | 36.5℃                 |              | 0         | 12-08-2020<br>11:53:07 |
|              |                 |   | 6                  |                       | 36.4°C                |              | 0         | 12-08-2020<br>11:40:33 |
|              |                 |   |                    |                       |                       | 10 v K       | <1/1>>    | 1 Go                   |

Report – The Normal access page shows normal access records (who passed both mask detection and body temperature).

By entering ID and select mask (Wear mask/ Not detected) can filter and display relevant records only.

Administrators can select the access time in the drop down list to shorten the searching time. System will filter and display relevant records only.

|   | А  | В          | С        | D        | Е          | F          |
|---|----|------------|----------|----------|------------|------------|
| 1 | ID | Photo      | Temperat | Wear Mas | Access Tin | ne         |
| 2 | 18 | http://10. | 36.7°C   | Yes      | 2020/08/1  | 2 14:41:38 |
| 3 | 16 | http://10. | 36.5°C   | Yes      | 2020/08/1  | 2 13:50:06 |
| 4 | 14 | http://10. | 36.4°C   | Yes      | 2020/08/1  | 2 13:49:49 |
| 5 | 9  | http://10. | 36.5°C   | Yes      | 2020/08/1  | 2 11:53:10 |
| 6 | 8  | http://10. | 36.5°C   | Yes      | 2020/08/1  | 2 11:53:07 |
| 7 | 6  | http://10. | 36.4°C   | Yes      | 2020/08/1  | 2 11:40:33 |

The downloaded file will be stored in the excel format.

| <b>X VIV</b> OTEK                                       |   |              |                  |                  | Reset button | admin 🗸 💮                              | English 🗸              |
|---|---|--------------|------------------|------------------|--------------|--|------------------------|
| Admin Console   |   | Report / Ab  | normal Access    | Search button    |              | Do                                     | wnload button          |
| ■ Device  |   |              | All R            | eason 🗸          |              |  | 1                      |
| Incident  | > | Access Time: | 12-08-2020 00:00 | 13-08-2020 00:00 |              |  |                        |
| Report  | ~ |              |                  |                  |              | _                                      | <u>+</u>               |
| <ul> <li>Normal Access</li> </ul>                       |   | ID           | Photo            | Temperature      | Wear Mask    | Reason                                 | Access Time            |
| <ul> <li>□ Abnormal Access</li> <li>☑ System</li> </ul> | > | 17           |                  | 36.3°C           | 8            | No mask                                | 12-08-2020<br>14:41:05 |
|   |   | 15           |                  | 36.4°C           | 8            | No mask                                | 12-08-2020<br>13:50:00 |
|   |   | 13           |                  | 44.3°C           | 8            | Abnormal<br>temperature<br>and no mask | 12-08-2020<br>12:27:11 |
|   |   | 12           |                  | 36.7°C           | 8            | No mask                                | 12-08-2020<br>12:27:02 |
|   |   | 11           | £                | 36.5°C           | 8            | No mask                                | 12-08-2020<br>12:25:38 |
|   |   | 10           |                  | 37.6°C           | •            | Abnormal temperature                   | 12-08-2020<br>12:05:50 |
|   |   | 7            |                  | 36.5°C           | 8            | No mask                                | 12-08-2020<br>11:40:54 |

# 5.4 Abnormal access

Report – Abnormal access page shows the abnormal access records (who failed the mask detection or body temperature or both).

By entering ID and select the reason (No mask/ Abnormal temperature/ Abnormal temperature and no mask) can filter and display relevant records only. Administrator can select the access time in the drop down list to shorten the searching time. System will filter and display the relevant records only.

| ID | Photo      | Temperat | Wear Mas | Reason   | Access Time         |
|----|------------|----------|----------|----------|---------------------|
| 17 | http://10. | 36.3°C   | No       | No mask  | 2020/08/12 14:41:05 |
| 15 | http://10. | 36.4°C   | No       | No mask  | 2020/08/12 13:50:00 |
| 13 | http://10. | 44.3°C   | No       | Abnormal | 2020/08/12 12:27:11 |
| 12 | http://10. | 36.7°C   | No       | No mask  | 2020/08/12 12:27:02 |
| 11 | http://10. | 36.5°C   | No       | No mask  | 2020/08/12 12:25:38 |
| 10 | http://10. | 37.6°C   | Yes      | Abnormal | 2020/08/12 12:05:50 |
| 7  | http://10. | 36.5°C   | No       | No mask  | 2020/08/12 11:40:54 |

The downloaded file will be stored in the excel format.

#### 5.5 Access Record

The Access record has access to the thermal reader's name list along with a snapshot of the visitor's each appearance. The access report stores and displays the list unless you disable the Storage records option.

|             | X VIVOTEK                          |   |                                       |                 |      |        |          |             |                    |                | dmin v 😋                       | English v                   |
|-------------|------------------------------------|---|---------------------------------------|-----------------|------|--------|----------|-------------|--------------------|----------------|--------------------------------|-----------------------------|
|             | lmin Console                       |   | Report / Access Re                    | ecord           |      |        |          |             |                    |                |                                |                             |
| E Der       | rvice                              | > | IID No. Name Type V Access Result V Q |                 |      |        |          |             |                    |                |                                |                             |
| E Rej       | port                               | ¥ | Face Picture                          | Detect Snapshot | Name | ID No. | Type     | Temperature | FR Reader IP       | FR Reader Name | Detect                         | 4<br>Access                 |
|             | Abnormal Access<br>People Counting |   | П                                     |                 | -    | -      | Stranger | 36.5℃       | Address 10.42.1.56 | FR             | Time<br>07-12-2020<br>16:44:11 | Success                     |
| ା<br>ଢି Sys | Access Report                      | > |                                       | A               |      |        | Stranger | 59.1°C      | 10.42.1.56         | FR             | 07-12-2020<br>16:28:07         | • Failed                    |
|             |                                    |   |                                       | 0               | 8    |        | Stranger | 59.2℃       | 10.42.1.56         | FR             | 07-12-2020<br>16:27:57         | • Failed                    |
|             |                                    |   |                                       |                 |      | 7      | Stranger | 36.3°C      | 10.42.1.56         | FR             | 07-12-2020<br>16:27:43         | <ul> <li>Success</li> </ul> |
|             |                                    |   | П                                     | <b>A</b>        |      | 5      | Stranger | 36.5°C      | 10.42.1.56         | FR             | 07-12-2020<br>16:27:12         | <ul> <li>Success</li> </ul> |
|             |                                    |   |                                       |                 |      |        | Stranger | 54.8°C      | 10.42.1.56         | FR             | 07-12-2020<br>16:27:04         | • Failed                    |
|             |                                    |   | П                                     | (C)             | ÷    | 2      | Stranger | 36.7℃       | 10.42.1.56         | FR             | 07-12-2020<br>16:25:49         | <ul> <li>Success</li> </ul> |
|             |                                    |   |                                       | D               |      |        | Stranger | 68.2°C      | 10.42.1.56         | FR             | 07-12-2020<br>16:25:37         | • Failed                    |

## <u>6. System</u>

#### 6.1 Account

|          | <b>VIV</b> OTEK                    |   |                  |        |       | admin ~ 💮               | English 🗸        |      |
|----------|------------------------------------|---|------------------|--------|-------|-------------------------|------------------|------|
| ø        | Admin Console                      |   | System / Account |        |       | Password button         | Add button       |      |
| =        | Device                             |   | Acount Name      | Tel No |       | Edit button             |                  |      |
| <u>0</u> | Incident                           | > |                  |        |       |                         | 2.               |      |
| B        | Report                             | > | Acount Name      | Tel No | Email | Add Time                | Operation        |      |
| S        | System                             | ~ | admin            |        |       | 2020/07/28 11:41:43:039 | L<br>L<br>L<br>L |      |
|          | Account                            |   |                  |        |       | 10 ~ K < 1 / 1 >        | 거 <b>1</b> Go    | ```` |
|          | <ul> <li>System Setting</li> </ul> |   |                  |        |       |                         |                  |      |
|          | <ul> <li>System Log</li> </ul>     |   |                  |        |       | Delete butt             | ton              |      |
|          |                                    |   |                  |        |       |                         |                  |      |

System – The Account page shows the existing accounts in the system. By entering Account name, Tel No, and email to filter and display the relevant records only. Administrators can add new account, edit account information, change password, and delete an account.

| ADD ACC     | ADD ACCOUNT  |  |  |  |  |  |  |
|-------------|--------------|--|--|--|--|--|--|
| * Account:  | Please input |  |  |  |  |  |  |
| * Tel No:   | Please input |  |  |  |  |  |  |
| * Email:    | Please input |  |  |  |  |  |  |
| * Password: | Please input |  |  |  |  |  |  |
|             | CONFIRM      |  |  |  |  |  |  |

The Administrator needs to enter all of the input boxes in order to create an account. The Tel No must be digit, and the email must follow email format. After you inserted all necessary information, click CONFIRM.

#### 6.2 System Setting

|          | <b>VIV</b> OTEK                |                                       |   | admin ~ 💮 | English 🛩 |
|----------|--------------------------------|---------------------------------------|---|-----------|-----------|
| 9        | Admin Console                  | System / System Setting               |   |           |           |
| =        | Device                         | System Version 1 V1.7.1               |   |           |           |
| <u>a</u> | Incident >                     | Access Setting                        |   |           | SAVE      |
| 8        | Report >                       | Temperature Threshold Setting:        | 37.5 °C (30°C - 40 °C)  |           | _         |
| 8        | System *                       | Hide Temperature Values:              | ( Switch on to only display "Normal" or "Abnormal" on Terminal )  |           |           |
|          | Account     Suttem Setting     | People Currently Visiting:            | 0 50 Medium 495 High 500  |           |           |
|          | <ul> <li>System Log</li> </ul> | Enable Mask Detection:                |   |           |           |
|          |                                | Verification Mode:                    | Temperature   |           |           |
|          |                                | Store Setting                         |   |           | SAVE      |
|          |                                | Record Retention Period:              | 60 Days   |           |           |
|          |                                | Store Records:                        |   |           |           |
|          |                                | <ul> <li>Dashboard Setting</li> </ul> |   |           | SAVE      |
|          |                                | Occupancy:                            | Digital     Percentage  |           |           |
|          |                                | * Photo:                              | Display     S |           |           |
|          |                                | QR Code:                              | 0   |           |           |
|          |                                |                                       | Wattin 2011   |           |           |
|          |                                | * Hint Words:                         | Welcome (Accessible   | 2)        |           |
|          |                                |                                       | View more ~   |           |           |
|          |                                | Announcement                          |   |           |           |
|          |                                |                                       |   |           |           |
|          |                                |                                       | olao;   |           |           |

The System setting page allows administrators to manage different type of settings like Access Setting, Dashboard setting, Privacy protection setting, Service setting and Network Setting.

| Access Setting                 | SAVE  |
|--------------------------------|---|
| Temperature Threshold Setting: | 37.5 °C (30°C - 40 °C)  |
| • Hide Temperature Values:     | (Switch on to only display "Normal" or "Abnormal" on Terminal ) |
| People Currently Visiting:     | 0 Low 50 Medium 495 High 500                                    |
| Enable Mask Detection:         |   |
| Verification Mode:             | Temperature ~   |

- Temperature threshold setting: We can configure the threshold for body temperature (30°C - 40 °C). Visitor's body temperature that is higher than the value will be considered an abnormal access.
- Hide Temperature Values: Enable it will hide the temperature values. On the terminal, only the normal or abnormal status will display.

- People currently visiting: Administrator can define the visitor number, low, medium and high. The farthest right is the maximum number of people allowed to visit, once reached, the system will stop to capture faces and body temperatures.
- Enable Mask Detection: To enable the detection of person is wearing mask or not.
- Verification Mode: Temperature: Check by temperature threshold
   Temperature + Face: Check by temperature threshold and verify with this person identity.

| Store Setting              |    |      |  |  | SA | SAVE | SAVE |
|----------------------------|----|------|--|--|----|------|------|
| * Record Retention Period: | 60 | Days |  |  |    |      |      |
| Store Records:             |    |      |  |  |    |      |      |

Store setting can configure how many days of data in IPC.

- Record retention period: To delete record data after X days.
- Store snapshot photos: Enable to store snapshot photos.

| <ul> <li>Dashboard Setting</li> </ul> |   | SAVE         |
|---------------------------------------|---|--------------|
| Occupancy:                            | Digital     Percentage                                      |              |
| * Photo:                              | Display     S     S     S     No display     Always display |              |
| QR Code:                              | Within: 2M  |              |
| * Hint Words:                         | Welcome   | (Accessible) |
| Announcement:                         | 0/80  |              |

• Occupancy: Change the dashboard setting to digital or percentage.

## VIVOTEK INC. Edge Computing COVID-19 Defender



The sample screens for the digital and percentage dashboard are shown above.

- Photo: Display mode settings on dashboard.
- Hint Words: Allow user to enter the words displayed on dashboard. For example: Welcome



| SMTP Setting |             | SAVE |
|--------------|-------------|------|
| * Sender:    |             |      |
| * Host:      |             |      |
| * Port:      | 0           |      |
| * User SSL:  | True  False |      |
| * Authorize: | ● Yes ○ No  |      |
| • Username:  |             |      |
| * Password:  |             |      |

- Sender: Sender name
- Host: SMTP host (Mail server)
- Port: SMTP port.
- User SSL: Enable or disable Secure Sockets Layer for email.
- Authorize: Select yes if your email service requires service credentials. Select no if using mail service that does not require user name/password.
- Username: Sender email address.
- Password: Sender email password.

| * IP: 10.0.0.140 | Network Setting |            |  |
|------------------|-----------------|------------|--|
| * Port: 80       | * IP:           | 10.0.0.140 |  |
|                  | * Port:         | 80         |  |

Devices (JVT terminals and VIVOTEK cameras) under this range will be found when using the device discovery function.



- Product Logo: select the picture displayed on website/dashboard.
- People Counting Auto Reset: Enable to choose the timing for people counting data reset for each day.

#### 6.3 System Log

This page displays a record of all of the system logs in the system. By entering Action name, IP address, Operator and status, you can filter and display relevant records only. Administrators can select the access time in the drop down list to shorten the searching time. System will filter and display relevant records only.

|               | <b>VIVOTEK</b>             |   |   |            |                     | Reset button        |                             | admin ~ 💮                              | English 🗸 |
|---------------|----------------------------|---|---|------------|---------------------|---------------------|-----------------------------|--|-----------|
| Q             | Admin Concolo              |   | System / Systen   | n Log      | Search button       |                     |                             |  |           |
| =             | Device                     |   | Action<br>Time: 12-08-2020 00                                   | Addre      | ss 13-08-2020 00:00 | Operator            | All Status                  | <ul> <li>✓</li> <li>Details</li> </ul> | _         |
| <u>♀</u><br>目 | Incident<br>Report         | > | Action  | Address    | Operator            | Time                | Status                      | Ор                                     | eration   |
| ₽             | System                     | ~ | Change incident status  | 10.0.0.171 | admin               | 12-08-2020 16:59:45 | <ul> <li>Success</li> </ul> | ▲[                                     | ₽ <       |
|               | Account     System Setting |   | Change incident status  | 10.0.0.171 | admin               | 12-08-2020 16:59:44 | <ul> <li>Success</li> </ul> |  | E         |
|               | System Setting             |   | Create device   | 10.0.0.171 | admin               | 12-08-2020 15:30:58 | <ul> <li>Success</li> </ul> |  | E         |
|               | System Log                 |   | Delete device   | 10.0.0.171 | admin               | 12-08-2020 15:29:34 | <ul> <li>Success</li> </ul> |  | E         |
|               |                            |   | Reset the number<br>of people in the<br>current device<br>group | 10.0.0.171 | admin               | 12-08-2020 15:06:00 | <ul> <li>Success</li> </ul> |  | F         |
|               |                            |   | Reset the number<br>of people in the<br>current device<br>group | 10.0.0.171 | admin               | 12-08-2020 15:05:49 | <ul> <li>Success</li> </ul> |  | Ð         |
|               |                            |   | Reset the number<br>of people in the<br>current device<br>group | 10.0.0.171 | admin               | 12-08-2020 15:05:41 | <ul> <li>Success</li> </ul> |  | F         |

| LOG DETAIL                             | S  | ×    |  |  |  |  |
|--|--|------|--|--|--|--|
| Operator Information                   |  |      |  |  |  |  |
| Operator:<br>Address:<br>Browsers:     | admin<br>10.0.0.171<br>Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKtt/537.36 (KHTML, like<br>Gecko) Chrome/78.0.3904.70 Safari/537.36 |      |  |  |  |  |
| <ul> <li>Action Information</li> </ul> | tion   |      |  |  |  |  |
| Action:<br>Action Event:               | Change incident status<br>Change incident status   |      |  |  |  |  |
| Applied Data:                          | <pre>{    "dto": {     "Id": "a3edb141-3327-4444-b4b1-3a1f21e140cf",     "Status": 0     } }</pre>   | •    |  |  |  |  |
| Time:<br>Result:                       | 2020/08/12 16:59:45:666<br>Success   |      |  |  |  |  |
|  | CLOS   | SE . |  |  |  |  |

Click on the details button to reveal more information.

# <u>Appendix</u>

The architecture of Edge Computing COVID-19 Defender:



# A-1. Upgrade procedure of AB-101

- Files 😑 🗇 USB DISK 0 USB DISK O Recent **☆** Home System Volume Camera Roll Picture\_Medea Record\_pic Desktop Documents 1 10 101 1010 Downloads Ultimo\_Covid\_ Defender 1.4 CovidDefender.lic COVID DEFENDER\_ 去背 JJ Music \_Username\_ Passwor.txt D Pictures Videos 1 10 101 1010 🗐 Trash MachineFinger a P Network Computer 🔳 Ultimo\_Covid\_... 🔺 USB DISK D Connect to Server "Ultimo\_Covid\_Defender1.5.tar" selected (530.6 MB)
- 1. Download firmware "Ultimo\_Covid\_Defender.tar" and copy to Desktop.

2. Right click on desktop and choose "Open Terminal".

| Ubunt    | u Desktop                        |  |
|----------|----------------------------------|--|
| Q        | lor                              |  |
|          | Ultimo_Covid_<br>Defender1.5.tar |  |
| ٢        |                                  |  |
|          |                                  |  |
|          |                                  |  |
|          |                                  |  |
| A        |                                  | Linu Falder                                |
| a        |                                  | New Polder                                 |
| <b>2</b> |                                  | Open Terminal<br>Paste                     |
|          |                                  | Organize Desktop by Name<br>✓ Keep Aligned |
| 9        |                                  | Change Desktop Background                  |
|          |                                  |  |

#### Open Terminal:

| admin1@Covid: ~  |   |  |  |
|------------------|---|--|--|
| admin1@Covid:~\$ |   |  |  |
|                  |   |  |  |
|                  | I |  |  |
|                  |   |  |  |
|                  |   |  |  |
|                  |   |  |  |
|                  |   |  |  |
|                  |   |  |  |
|                  |   |  |  |
|                  |   |  |  |

3. Stop Ultimo Covid Defender:

Use below command to stop Ultimo Covid Defender program. Select Ultimo Covid Defender program first.

cd /home/Ultimo\_Covid\_Defender/





Then stop Ultimo Covid Defender program



[Sudo] password for admin1: *Admin123.* \*Please enter "." at the end of password\*

Confirm "Stop Ultio Defender Successfully" showed up.



4. Unzip firmware package for upgrading: Go back to desktop path cd

cd

cd Decktop

sudo tar –xvf Ultimo\_Covid\_Defender.tar –C /home



5. Start Ultimo Covid defender:

| cd /home/Ultimo_Covid_Defender/   |
|---|
| ./10-start.sh   |
| 🛞 🖨 💷 admin1@Covid: ~   |
| Ultimo_Covid_Defender/chrome-init.sh<br>Ultimo_Covid_Defender/covid.conf<br>Ultimo_Covid_Defender/docker-compose.yml<br>Ultimo_Covid_Defender/docker-init.sh<br>Ultimo_Covid_Defender/images/<br>Ultimo_Covid_Defender/images/pgsql-app.tar<br>Ultimo_Covid_Defender/program/<br>Ultimo_Covid_Defender/program/containerd.io_1.2.0-1_amd64.deb<br>Ultimo_Covid_Defender/program/containerd.io_1.2.0-1_amd64.deb<br>Ultimo_Covid_Defender/program/docker-ce-cli_18.09.0_3-0_ubuntu-xenial_amd64.deb<br>Ultimo_Covid_Defender/program/docker-ce_17.03.0_ce-0_ubuntu-xenial_amd64.deb<br>Ultimo_Covid_Defender/program/docker-ce_17.03.0_ce-0_ubuntu-xenial_amd64.deb<br>Ultimo_Covid_Defender/program/docker-compose-Linux-x86_64<br>Ultimo_Covid_Defender/program/google-chrome-stable_current_amd64.deb<br>Ultimo_Covid_Defender/program/Ultimo.CovidDefender.Important.dll<br>Ultimo_Covid_Defender/version.txt<br>admin1@Covid:~/Desktop\$ cd<br>admin1@Covid:/home/Ultimo_Covid_Defender/<br>admin1@Covid:/home/Ultimo_Covid_Defender/supersection.tsh<br>covid: started<br>Start Ultio Defender Successfully<br>admin1@Covid:~S |

Confirm "Start Ultio Defender Successfully" showed up.

6. You can also use below command to check Covid Defender program status: ./30-status.sh

Check if program is "RUNNING" or not.



### A-2. Upgrade procedure of AF-101

Please contact technical support for AF-101 firmware upgrade.