IndigoVision

IndigoKiosk AI
Camera and Workstation

User Guide
Legal considerations

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1 ABOUT THIS GUIDE

This guide is written for users of the IndigoVision IndigoKiosk AI. It provides installation and configuration information for the device variants, as well as a description of the hardware and specifications.

Please ensure you read the instructions provided in the guide before using the device.

Safety notices

This guide uses the following formats for safety notices:

⚠️ Warning

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠️ Caution

Indicates a hazardous situation which, if not avoided, could result in moderate injury, damage the product, or lead to loss of data.

⚠️ Notice

Indicates a hazardous situation which, if not avoided, may seriously impair operations.

✨ Additional information relating to the current section.
2

**HARDWARE DESCRIPTION**

This chapter details the IndigoKiosk AI, its connections, and its weights and dimensions.

**Overview**

IndigoKiosk AI automates the process of counting people to help manage occupancy control and ensure social distancing. It consists of a BX440 HD Minidome Camera and a pre-configured micro form-factor Dell Workstation.

The system automatically detects if a person is wearing a face mask or not. Analytic alarm integration into IndigoVision’s Control Center, and Agora Command and Control platforms provide instant actionable intelligence.

*Figure 1: IndigoKiosk AI - HD Minidome Camera and Workstation*
Connections

The camera is fitted with a preterminated cable bundle for easy installation. The preterminated cable bundle is connected to Power (1) and Network port (2) connections which can be disconnected if a direct connection to the camera is required.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power (12V DC or 24V AC)</td>
</tr>
<tr>
<td>2</td>
<td>Network port (LAN)</td>
</tr>
<tr>
<td>3</td>
<td>Video output</td>
</tr>
<tr>
<td>4</td>
<td>Terminal block:</td>
</tr>
<tr>
<td></td>
<td>Pin 1: Alarm OUT</td>
</tr>
<tr>
<td></td>
<td>Pin 2: Alarm GND</td>
</tr>
<tr>
<td></td>
<td>Pin 3: Alarm IN</td>
</tr>
<tr>
<td></td>
<td>Pin 4: GND</td>
</tr>
<tr>
<td></td>
<td>Pin 5: Audio IN</td>
</tr>
<tr>
<td></td>
<td>Pin 6: Audio OUT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Network port (LAN)</td>
</tr>
<tr>
<td>6</td>
<td>Power (12V DC or 24V AC)</td>
</tr>
</tbody>
</table>

Powering up the camera

The camera can be powered by either an auxiliary power supply or PoE/PoE+ and is compliant with the IEEE 802.3at standard.

The following may be used:
• Power over Ethernet (PoE+) switch
• PoE+ injector/midspan
• Auxiliary power supply
  • 12V DC - Camera has a maximum power usage of 17W
  • 24V AC - Camera has a maximum power usage of 19W

The camera should only be powered from the specified voltage.

A suitable power supply can be ordered separately (Part numbers: PoE Injector 130176 or 130179, auxiliary 12V DC power supply 110068).

---

**Caution**

Although this is a PoE+ camera, it will power on with PoE but may reboot if the camera tries to use more power than is available on PoE. This can happen if the heaters come on due to the external temperature dropping.

---
3 GETTING STARTED

This chapter describes the initial steps required to start using your IndigoKiosk AI.

Package contents

Before continuing, please check that you have been shipped the items listed for your device.

Camera

1. Dome
2. Camera

Additional items

- 1 x Torx wrench
- 1 x Waterproof RJ45 connector kit
- 1 x Power cable adapter
- 1 x Installation template
- 3 x Fixing screws and rawlplugs
- 1 x Quick Start Guide

Configure the camera

Configure the settings

💡 By default, the camera uses a DHCP server.
1. Connect the camera to a PC using an Ethernet cable.
2. Navigate to the camera’s default IP address using a web browser and set a secure password.
   If the default password is required, enter 1234.
   If you cannot connect to a DHCP server, enter the default network settings.

<table>
<thead>
<tr>
<th>Default Username</th>
<th>Admin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default IP Address</td>
<td>10.5.1.10</td>
</tr>
<tr>
<td>Default Subnet Mask</td>
<td>255.0.0.0</td>
</tr>
<tr>
<td>Default Gateway</td>
<td>10.0.0.1</td>
</tr>
</tbody>
</table>

3. Select the **Settings** tab.
4. Enter the NTP server and port on the **System > General > Date & Time Settings** page.
5. Select the video standard for your region using the **Video Standard** option on the **Settings > System > General > General** page. Choose **PAL** for countries with 50Hz power frequency and **NTSC** for countries with 60Hz power frequency.
6. Enter a new IP address and subnet mask on the **Network > TCP/IP** page.

**Further configuration**

After the IP address has been configured, you can also access the camera’s configuration pages through IndigoVision Control Center.

1. In **Setup** view, select the camera you want to configure.
2. Select the **Configure** tab, and enter a valid user name and password if required.
This section details how to install the IndigoKiosk AI.

**Screening recommendations**

IndigoVision recommends the following screening conditions and configuration:

- For people counting only, there should be no more than four people per entry.
- For face mask detection, there should be no more than four people per screening within the region of screening.
- The region of screening should be clearly marked on the floor at the entrance.
- People should be screened for at least five seconds.

**Notice**

*If a person without a mask is detected and they then proceed to wear a mask, they must step away from the region of screening and step back in for detection.*

**Camera installation**

For details on how to install and set up the camera, refer to the Quick Start Guide supplied with camera.

The following additional installation information must also be taken into consideration:

- The camera must be installed where the entire entrance or exit region is fully covered in the field of view of the camera.
- The recommended angle of view for installation is 30 degrees when using the system for people counting and face mask detection.

**IndigoKiosk AI workstation installation**

*Do not position or install the workstation in an outdoor environment that is exposed to rain and harsh weather conditions.*

- The workstation supplied with pre-installed software.
- You can use your own compatible monitors.
  Contact IndigoVision sales for monitor options.
- Ensure the workstation and monitors are installed and positioned in a safe and secure location.
• If the monitor is positioned above an entrance or exit, ensure that suitable safety lanyards and attachments are used for holding the monitor.
• The workstation needs to be connected to your network to access the cameras.
5 CONFIGURATION

The camera and workstation need to be configured before using the system.

- **Camera configuration** - set up the camera with the right detection settings and alarms.
- **IndigoKiosk AI server** - set up the server to ensure all background software services are running.
- **IndigoKiosk AI client** - set up the client system to add the camera associated with this client, configure the maximum occupancy threshold and face mask detection features for viewing using the traffic lights system.

**Camera configuration**

The camera needs to be installed, connected and powered on before configuration can be done. If DCHP is not available, then use the default IP address for the camera, 10.5.1.10.

To configure the camera, follow these steps:

1. Open Internet Explorer 11 and enter the IP address of the camera.
2. Type and confirm an Admin password using the **Device Initialization** screen.

   ![Figure 2: Initial password setup screen](image)

3. Log in to the camera configuration web pages.
4. Click **Allow** to accept and install the **WebActiveX Module**.

After the web plugin has been installed you should see the video stream and display in the **Live** view.
5. Select the **Setting** tab.
6. From the menu, select **System > General**, then select the **Date & Time** tab.
7. Select the **NTP** option and enter the correct NTP server IP address.
   - If there is no NTP server available, click **Sync PC** to sync to the local PC time.
   - For regions that use daylight savings time should select **DST** and provide the start and end times for the DST.
8. From the menu, select **Event > AI Analytics**.
9. Click (single-person icon) to enable face detection features.
10. Click (multi-person icon) to enable people counting features.

**Configure people counting**

To configure the people counting features on the camera, follow these steps:

1. Select **Event > AI Analytics > People Counting**.
2. Click (top-right) of to add a people counting rule.
3. Click next to the added rule to enable the rule.
4. Click **Draw Rule** and draw and area in the live view.
5. Click **Draw Line**.
6. Draw a line from left to right or from right to left depending on which direction you want the count configured.

Configure face detection

To configure the face detection features on the camera, follow these steps:

1. Select **Event > AI Analytics > Face Detection**.
2. Enable the Face detection.
3. Click **Draw** next to **Detect Region**.
4. Draw a region where the face detection is required.
   - Ensure **snapshot** is enabled.
   - Ensure **Attributes > Mouth Mask** is enabled.
The face detection region must be drawn inside the people counting region. People should cross the people counting region and be counted before they are scanned for a face mask. The face detection region should be configured to be inside the people counting region.

Configure camera binary relays when capacity changes

The camera binary output relays can be set to open or closed when the capacity, store threshold, is exceeded or capacity is made available. To configure the camera binary output relays, follow these steps:

1. On the IndigoKiosk AI client, navigate to Config > Stores > STORE.
2. Select Event Configuration.
3. Select Store threshold exceeded and move slider to right.
4. Select the cameras and configure Duration and Switch settings.
5. Click OK.
6. Repeat this process to configure the camera binary outputs for **Store threshold not exceeded**.

**Notice**

*Alarm binary output configuration is not available for a mask missing alarm or mask detected alarm.*

---

### Configure audio alarms

IndigoKiosk AI client and cameras can be configured to sound an audio alarm when people counting limits are reached or when a mask is missing.

To configure and use audio alarms, follow these steps:

1. On the IndigoKiosk AI client, navigate to **Config > Stores > STORE**.
2. Select **Event Configuration**.
3. Select **Store threshold exceeded** and move slider to right.
4. Select **Store threshold not exceeded** and move slider to right.
5. Select the child element of the camera under **Root**.
6. Select **Mask Missing Alarm** and move slider to the right.

![Image of IndigoKiosk AI interface](image)

**Figure 10:** Mask missing alarm setting

7. Click **OK**.
8. Repeat this process for **Mask Detected Alarm**.
9. To enable the audio on the IndigoKiosk AI client, click **Audio**.
10. Select the alarm to configure.
11. Click **Browse** to locate and select an audio file.
12. Click Save.

**Notice**

- Audio *.wav file format supported.
- Select **Play** to preview the audio file.
- Select **Loop** to repeat the same message until alarm is cleared from the Alarms dashboard.

### IndigoKiosk AI software configuration

The IndigoKiosk AI software consists of two main components:

- IndigoKiosk AI server
- IndigoKiosk AI client

Both of these components are pre-installed on your workstation. However you need to check and configure the software for your requirements.

Launch the IndigoKiosk AI server and client applications from your start menu.

### IndigoKiosk AI server

Start the IndigoKiosk AI server and check if device IP address is correct.

To confirm the server IP address is configured correctly, follow these steps:

1. Open a Windows command shell.
   
   From the start menu, type `cmd`.
2. Type `ipconfig` and identify the workstation IP address.
3. In the IndigoKiosk AI server application, click to access the settings option.
4. Enter the IP address of the workstation in the **Server IP** field.
5. Click **OK**.

The server software starts all the services required for the system. Ensure that the server and all related services are running.

Minimize the IndigoKiosk AI server interface after you have confirmed everything is running.

**IndigoKiosk AI client**

To configure the IndigoKiosk AI client, follow these steps:

1. Open the IndigoKiosk AI client from the **Start** menu or double-click the icon on the desktop.
2. Type the username and initial password:
   - Username: Admin
   - Initial password: 1234678
3. Reset the initial password.
This is required the first time you open the IndigoKiosk AI client.

4. Complete the security questions section.
5. Click **OK**

![Figure 14: Initial start screen for the IndigoKiosk AI client](image)

6. Click **Device** to open the device add screen.
7. Click **Add** to add a new device.
8. In the **Add All Devices** dialog, add the required camera credentials.
9. Click **Add**.
   The camera is added and the list of cameras detected. The status of the camera is shown as **Online** (green).

10. Alternatively, click **AutoSearch** and select from the list of detected cameras.
11. After selecting a camera from the list of available devices, enter the camera credentials and click **OK**.

### Enable people counting and face detection

People counting and face mask detection are both enabled by default.

Using the IndigoKiosk AI client, you can disable face mask detection and use the system for people counting only.

To edit the detection settings for a device, follow these steps:

1. Click **Edit** next to the device you want to edit.
2. The **Edit Device** dialog opens.
3. Select which options you want enabled.
4. Enable or disable counting and detection options.
5. Click OK.

**Configure people counting on the client**

To configure the people counting feature, follow these steps:

1. Click **Config** and select **Config**.
2. Click **People Counting Config**.
3. Enter the maximum occupancy count in **Threshold**.
4. Expand the list of devices from **Root** and enable the camera to use for counting.

5. Click **OK**.
IndigoKiosk AI reporting configuration

You can access reports from IndigoKiosk AI server. These reports show you graphs and data collected on people counting and face mask wearing compliance.

To support the reporting services you need to configure your IndigoKiosk AI workstation with the following applications and services:

- Install and configure the Docker environment. This is a pre-requisite for elements of the reporting solution.
- Install and configure the reporting and web-services. This allows users to use a browser or Control Center to remotely access and display the reporting data.

Install and configure the Docker environment

The Docker environment is used for hosting and running the reporting services on the IndigoKiosk AI workstation.

To install and configure the Docker environment, follow these steps:

1. Navigate to the Docker installation file.
   
   `C:\IndigoKiosk AI\Reporting\Docker\Docker Desktop Installer.exe`

2. Double-click the installation file to start the installation procedures.
3. If prompted, allow the program to make changes to the workstation.
4. Click OK to accept the default configuration.
5. When installation has completed, double-click on the desktop shortcut to launch Docker dashboard.
6. Click to open the Docker Settings.
7. Ensure that *Start Docker when you log in* option is enabled.

![Docker Settings panel](image)

Figure 18: Docker Settings panel.

8. Select **Resources**.
9. Increase the amount of memory to be used by the Docker environment. 4GB minimum is required, although 6GB is recommended.
10. Click **Apply & Restart**.
   This only restarts the Docker environment.

**Notice**  
*It can take several minutes for the Docker application and services to restart.*

### Install and configure the reporting and web-services

To complete the installation and set up the web-services, follow these steps:

1. Navigate to and locate the Docker services batch file
   
   `C:\IndigoKiosk AI\Reporting\Docker\run docker containers.bat`

2. Double-click the run docker containers.bat file.
   The services can take some time to start-up.

3. Open the Windows Services control (`services.msc`) and locate **IndigoKiosk AI Reporting Web Service**.
4. Set that service to **Automatic**.
5. Start the service.

The reporting system is now running however the system requires additional configuration for the report to be able to access and visualize the data.

### Set up and configure access and visualization of data

To set up and configure the reporting system, follow these steps:

1. On the IndigoKiosk AI client, open a web browser.
2. Type `localhost:5601`
   This service cannot be accessed by a remote machine.
3. Log in to the **Kibana** application.
   This application is used to support the reporting system.
   • **Username:** admin
   • **Password:** admin
4. Click 
5. Select **Saved Objects**. 
   If the list contains only one item then the reports have failed to load. The reports need to be reloaded.
6. Navigate to **C:\IndigoKiosk AI\Reporting\Web Service\support**
7. Locate file **export.ndjson**
8. Click hold and drag the file onto the **Import option** on the web browser.
9. Click **Import**.
10. Click **Done**.
11. Select **Day Report** in the list of **Saved Objects**. 
    If the following error message is shown, you need to update the report index.

   ![Image](image1)

   **Figure 20:** Index pattern error message.

12. Type **kiosk** for the **Index pattern**.
13. Click **Next step**.

   ![Image](image2)

   **Figure 21:** Define index pattern

   If the kiosk-dated index does not appear in the list underneath the index pattern, then no data has been received from the IndigoKiosk AI server.

   Ensure that a camera has been added to the system and configured and then have a person walk through the camera’s field of view and reload the page.
14. Select **timestamp** option from **Time Filter field name**.
15. Click **Create index pattern**.
16. Select **Day Report** in the list of **Saved Objects**. 

The reporting system is now configured and running and the reports can be accessed from other workstations using a web browser, or from Control Center.

- Reporting web-service address: `http://<workstation IP address>/`
- Default password: reporting
- Default username: reporting

▶ **To access a web page from Control Center, refer to the Control Center help.**
IndigoVision recommends you update the password used for accessing the workstation web-services.

Changing the web-services password

The web-services password should be changed after installation.

To change the password on the web-service, follow these steps:

1. From the start menu type CMD and open a command prompt window.
2. Navigate to C:\IndigoKiosk AI\Reporting\Web Service.
3. Run command support\htpasswd.exe nginx\conf\authusers reporting.
4. Enter a new password.
5. Enter the new password again.
6. When the update is completed, close the command window.

IndigoKiosk AI Control Center Integration

IndigoKiosk AI can integrate with IndigoVision Control Center systems to alert Control Center operators to situations, for example, the occupancy count limit being breached or customers without a mask entering the premises.

Automated actions, for example, starting recording from a camera, can also be triggered by these situations.

To enable these actions on the IndigoKiosk AI workstation, follow these steps:

1. Navigate to C:\Program Files (x86)\IndigoKioskControlCenter\Release
2. Open the appsettings.json file in a text editor. This requires Windows administrator privileges to save.
3. Edit the AlarmServer section by changing the IP addresses to suit the Alarm server being used:
   
   "AlarmServer": {
   "IpAddress": "192.168.8.19",
   "LocalAddress": "192.168.8.19",
   
   Where:
   IpAddress is the IP address of the AlarmServer.
   LocalAddress is the IP address of the IndigoKiosk AI workstation.
4. Open the Windows Services control (services.msc) and locate IndigoKiosk AI Control Center Integration.
5. Set that service to Automatic.
6. Start the service.

Control Center configuration

Using Control Center, External Detectors can be set up to trigger on the following events:

<table>
<thead>
<tr>
<th>Event ID</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Person not wearing a mask detected</td>
</tr>
<tr>
<td>Event ID</td>
<td>Meaning</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Person wearing a mask detected</td>
</tr>
<tr>
<td>3</td>
<td>Occupancy limit reached</td>
</tr>
<tr>
<td>4</td>
<td>Occupancy limit no longer breached</td>
</tr>
<tr>
<td>5</td>
<td>Occupancy limit breached</td>
</tr>
</tbody>
</table>

For more information on how to create detectors, refer to the Control Center help.
After you have configured your cameras and workstation, you can set up the system for your particular area requirements.

**How to start the client view**

Follow these steps to start the client view:

1. Click [People Counting & Mask Detection](#) > [Config](#)
2. Click [Kiosk View](#).
3. Click [ ] to display the client view full screen.

By setting up an operator user account, you restrict editing for administrators only.

To configure user accounts navigate to [Homepage > User](#) and create and configure users in the [Normal User](#) group.

The default traffic light display is shown and the system is ready to use.

![Figure 22: Main client traffic light display](image)

**How to change the enter and exits display**

To change the information displayed on the default view, follow these steps:
1. Click 
2. Select which information you want shown on the main display.

![Figure 23: Enter, exit, and capacity display options](image)

💡 You can be copy and paste text into the text editor.

**How to configure the GREEN traffic light**

To change the text shown when there is a GREEN traffic light on, click and then click ✅ to edit the text as required.

**How to edit the ORANGE traffic light**

To change the text shown when there is a ORANGE traffic light on, click and then click ✅ to edit the text as required.

**How to edit the RED traffic light**

To change the text shown when there is a RED traffic light on, click and then click ✅ to edit the text as required.

**How to edit the message when over-capacity and face mask detection occurs at the same time**

In some situations you may get an over-capacity and a face masking missing warning. In this case both the RED and ORANGE traffic lights are shown.

In this case you can edit the message displayed. Click ✅ and then click ✅ to edit the text shown when both conditions are met at the same time.
Next customer please wait
Current customer please wear a face mask before entering

Figure 24: Edit text for combined warnings from the traffic lights.
HARDWARE SPECIFICATION

This chapter details the hardware specifications for the IndigoKiosk AI.

Camera

Regulatory

- EN 50130-4
- EN 55024
- EN 55032
- EN 61000-3-2
- EN 61000-3-3
- EN 60068-2-1
- EN 60068-2-2
- EN 60068-2-30
- EN 60068-2-6
- EN 60068-2-64
- EN 60068-2-27
- EN 60529
- EN 62262
- FCC Part 15 Subpart B
- RoHS directive 2002/95/EC
- UL

Environment

- Temperature:
  - Operating: -40°C to +60°C (-40°F to 140°F)
  - Cold start: -20°C (-4°F)
  - Storage: -20°C to +60°C (-4°F to 140°F)
- Maximum humidity: 95%

Workstation

Specifications

- Operating System: Windows 10 64bit (IoT Enterprise 2019)
- Processor: Intel Core i3-9100T
- Memory: 16GB (1x16GB) 2666MHz DDR4
- O/S Hard Disk: 128 GB Solid State Drive (PCle NVMe Class 35)
- Network Interface: 100/1000 BaseT RJ-45
- Video Interface: 1 x Display Port, 1 x HDMI Port, Integrated Intel UHD Graphics supporting dual monitor output
- Audio Interface: Mic In, Headphone, Line Out
• Form Factor: Compact Micro Form Factor Chassis
• Dimensions/Weight: 178mm (d) x 36mm (w) x 182mm (h) and 1.18Kg
• Electrical: 65 Watt AC Adapter

Regulatory

• EN 60950-1
• IEC 60950-1
• EN 55032:2012/CISPR 32:2012
• EN 55032:2015/CISPR 32:2015

• EN 61000-3-2:2014/IEC 61000-3-2:2014 (Class D)
• EN 61000-3-3:2013/IEC 61000-3-3:2013
• DRAFT EN 301 489-1 V2.2.0
• DRAFT EN 301 489-17 V3.2.0

Environment

• Temperature:
  • Operating: 10°C to +35°C (-50°F to 95°F)
  • Storage: -40°C to +65°C (-40°F to 149°F)
• Maximum humidity: 20% to 80% relative humidity (non-condensing)