

Better Tomorrow

DASHBOARD USER GUIDE

About This Guide

This user's guide describes the Better Tomorrow Dashboard and how to use it to detect and recognize persons of interest (POIs).

This guide contains the following chapters:

- **CHAPTER 1, INTRODUCING BETTER TOMORROW**, page 6
Introduces the Better Tomorrow platform and describes how it works.
- **CHAPTER 2, GETTING STARTED**, page 9
Describes the workflow for setting up the Better Tomorrow Dashboard and the workflow for using it for ongoing detection and recognition.
- **CHAPTER 3, LIVE CAMERAS**, page 19
Describes the LIVE CAMERAS module.
- **CHAPTER 4, FORENSICS**, page 27
Describes the Forensics module.
- **CHAPTER 5, SEARCH**, page 31
Describes the SEARCH module.
- **CHAPTER 6, WATCHLIST**, page 37
Describes the WATCHLIST module.



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01 INTRODUCING BETTER TOMORROW

This chapter introduces the Better Tomorrow (BT) platform and describes how it works.

What Is Better Tomorrow?

Better Tomorrow is an advanced state-of-the-art tactical surveillance platform powered by cutting-edge artificial intelligence, deep learning and deep neural networks. Better Tomorrow enables realtime and post-analytic face and/or body recognition on-demand in videos and photographs, both on-premise or in the cloud. Better Tomorrow can work with any camera feed or prerecorded video on your existing hardware. It is a simple-to-use, plug-and-play, scalable system that is compatible with GDPR regulations.

How Does Better Tomorrow Work?

Better Tomorrow Stages

The Better Tomorrow facial recognition process has four stages – detection, feature extraction, tracking and recognition –

- **Detection** – During the detection process, the Better Tomorrow platform divides the frame into a grid and starts looking for a face or a body (according to your settings).
- **Feature Extraction** – Once the face or body is detected, a mathematical model of its features is extracted.
- **Tracking** – The detection process (described above) is repeated in each subsequent frame, thus creating a track. This enables the system to detect people even in extreme video conditions, such as high contrast, profile view, low resolution and even people in disguises.

- **Recognition** – The platform uses this model to search your database for persons of interest (POIs) and to indicate matches by creating an alert. This process happens simultaneously in a multi-camera environment on all faces and bodies in each camera’s field of view.

Better Tomorrow Flow

- 1 **Video Input** – Live camera feeds or Video Management Systems (VMSs) are connected to the Better Tomorrow platform. Offline video files and images can also be uploaded to the Dashboard.
- 2 **Defining POIs** – The Better Tomorrow Dashboard enables you to easily define a WATCHLIST of detected faces and/or bodies as suspects (Persons of Interest – POI), which are stored in the Better Tomorrow database. Better Tomorrow enables you to upload a single image of a person, multiple images for the same person or large batches of multiple images for multiple people.

Better Tomorrow also enables you to define a white list of authorized people, so that you can automatically trigger actions, such as to open a door. More information about this feature is provided in the Better Tomorrow Access Control User Guide.
- 3 **Realtime Detection and Recognition** – As video is streamed into Better Tomorrow –
 - The Better Tomorrow Neural Network Engine analyzes it on-the-fly.
 - Better Tomorrow automatically and immediately detects POIs and displays alerts in the Better Tomorrow Dashboard.
 - All detection data is stored in the Better Tomorrow database.
- 4 **Forensic Analysis** – Better Tomorrow enables you to upload offline video files and VMS input for analysis in order to detect faces and to determine whether specific POIs appear in the video.
- 5 **Search** – Better Tomorrow enables you to perform retroactive searches of the detections stored in the Better Tomorrow database. A variety of options are provided for retroactively searching the database, such as to upload an image

and search for that person, to find all the detections within a specific time range and more.

- 6 **Report Export** – Better Tomorrow enables you to export reports showing relevant POIs in a PDF.

Supported File Formats

The following are some of the image and video formats supported by Better Tomorrow. For a full list of image and video formats and for a list of the codecs supported by Better Tomorrow, contact an AnyVision support representative.

Image Formats

- jpg
- jpeg
- png
- bmp
- tiff

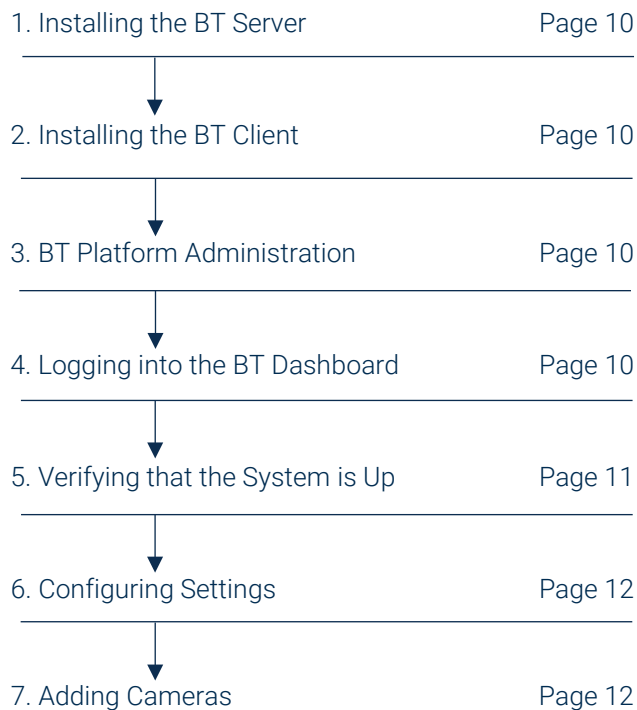
Video Formats

- mp4
- avi
- mkv
- mov
- m4v
- flv

02 GETTING STARTED

This chapter describes the workflow for setting up the Better Tomorrow (BT) Dashboard (below) and the workflow for using it for ongoing detection and recognition (page 7).

Setup Workflow



Step 1, Installing the Better Tomorrow Server

Install one or more Better Tomorrow Neural Network (NN) servers, as described in the *Better Tomorrow Server Installation Guide*.

Step 2, Installing the Better Tomorrow Client

Install one or more Better Tomorrow clients. Contact AnyVision support for instructions.

Step 3, Better Tomorrow Platform Administration

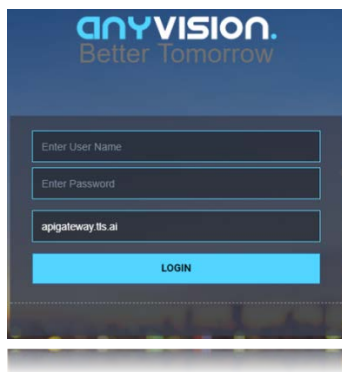
A few setup and configuration tasks must be performed after the initial installation of the server and client (which was described above), such as calibrating cameras.

Step 4, Logging into the Better Tomorrow Dashboard

After you install the client (as described above), the Better Tomorrow Dashboard can be launched by double-clicking the following icon on your desktop:



The following displays:

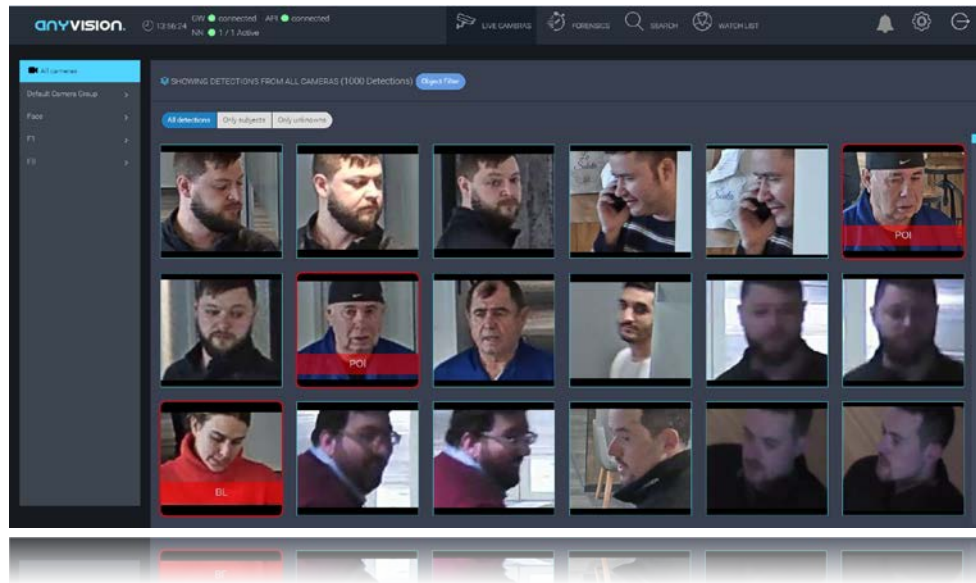


The default username is [REDACTED] and the default password is [REDACTED]. This user has the administrator role and can create additional users.


The third field in the window above indicates the name of the Better Tomorrow Neural Network (NN) Engine. When a single NN engine is installed, this field is not editable. If more than one server engine has been installed, then this field is a dropdown menu from which you can select the server engine contents to be displayed in the Dashboard.

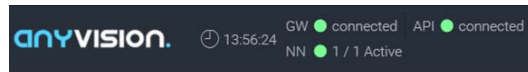
Click the **LOGIN** button.

The Better Tomorrow Dashboard displays. For example, as shown below –



Step 5, Verifying That the System Is Up


In the top-left corner of the Dashboard, verify that each Better Tomorrow platform component appears with a green indicator , as follows:



- **GW** – Better Tomorrow’s gateway.
- **NN** – Better Tomorrow’s Neural Network (NN) Engine, also called the *Pipe*. The number of engines appears and indicates how many of them are active. For example, **1/1 Active**, as shown above.
- **API** – Better Tomorrow’s Application Programmer’s Interface (API).

If any of them are not green, then contact your AnyVision support representative.

Step 6, Configuring Settings


The top-right corner of the Dashboard provides the **Settings**  button, which enables you to configure a variety of options that control the Better Tomorrow platform's behavior. For example:

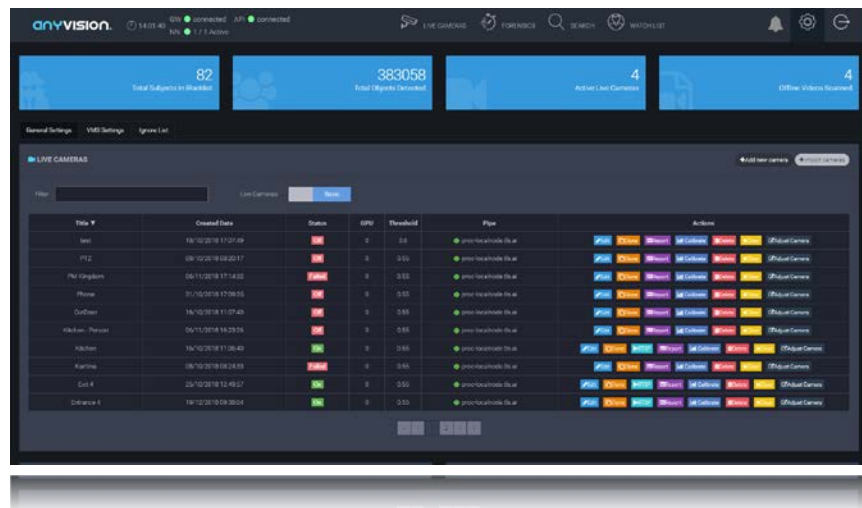
- **LIVE CAMERA GROUPS** – To define camera groups.
- **WATCHLIST** – To define POI groups.
- **GENERAL SETTING** – For example, the following options can be turned on or off
 - **GDPR Support** – Turning on this feature enables the system to be in compliance with European General Data Protection Regulations (GDPR), such as by generating a POI detection video with blurred-out faces of individuals that are not on your WATCHLIST.
 - **Privacy Mode** – When this feature is on, Better Tomorrow ensures that facial images of non-enrolled individuals are not displayed in the Dashboard gallery and are not saved to the Better Tomorrow database.

Step 7, Adding Cameras

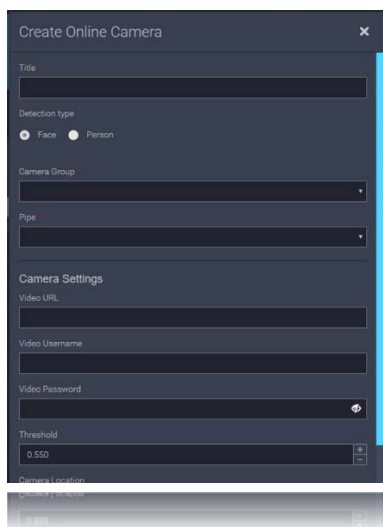
Define camera connections to the Better Tomorrow platform and verify video streaming.

To add a new camera:


- 1 Select the **Settings**  option in the top-right corner of the Dashboard. The following displays:



- 2 Click the **+Add new cameras** button. The following displays:



- 3 Fill in the fields, as follows:

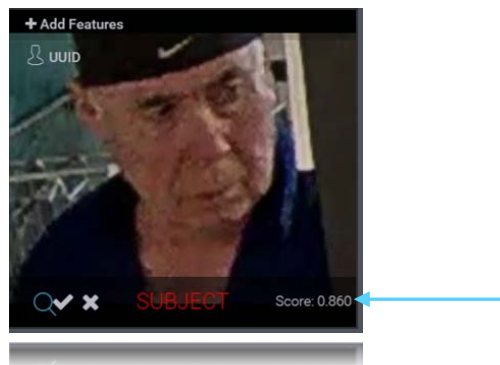
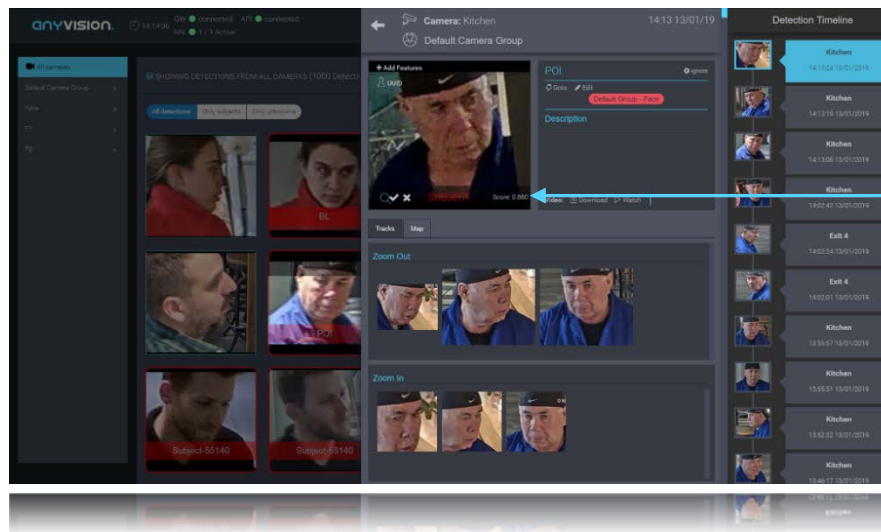
- **Title** – Enter a descriptive name for the camera. This is the name that will be used in the Better Tomorrow Dashboard. We suggest that the name indicate the camera’s location and/or purpose. For example, **Front Entrance Surveillance**.
- **Action Type** – Select either **Face** or **Person** to indicate whether Better Tomorrow analyzes the video stream from this camera in order to find **faces** or **bodies** (**Person** refers to the full-body recognition feature). If you would like the same camera to recognize POIs using both face recognition and full-body recognition, then you can add the same physical camera to the Better Tomorrow system twice. For example, once by selecting the **Face Action Type** and the second time by selecting the **Person Action Type**.
- **Camera Group** – Select the camera group to which this camera belongs. Camera Groups are defined in the **LIVE CAMERA GROUPS** area of the **Settings** . For example, there may be several cameras covering an entrance. You can group these cameras into a single camera group. This enables you to see all the detections for all the cameras covering that entrance.
- **Pipe** – Select one of the Better Tomorrow NN Server Engines (also called Pipes) from this dropdown menu.
- **Video URL** – Specify the URL of the camera from which to receive the streaming video.

- **Video Username and Video Password** – Specify the username and password for accessing the video stream from this camera. Each camera may have a different way to access it.
- **Threshold** – We recommend that you leave the default value in this field. If you want more information about this field, you can read the following and/or contact AnyVision support for more information. The following describes Better Tomorrow Scores and Thresholds.

Better Tomorrow returns a Score between 0 and 1 that indicates the strength of the match between a specific POI and a specific detection made by Better Tomorrow. It is a key feature of Better Tomorrow’s core technology.

For example, if an identical photo was compared to itself, Better Tomorrow would return a Score of 1.

The **Score** can be seen in the Dashboard, as shown below:



The **Threshold** specifies how close a match there must be of the mathematical models created by Better Tomorrow between the reference image of a POI in the Watchlist and a Better Tomorrow detection in order for it to be considered as a POI match (recognition) and to trigger an alert.

The higher you set the **Threshold**, the more certain that the system alerts are really the same person, meaning that Better Tomorrow will correctly identify a POI as the same person. On the other hand, setting the Threshold very high may slightly increase the chance that a detected face will not be recognized as a POI (suspect).

The values of the **Score** and **Threshold** differ regarding the many-to-many (M:M), one-to-many (1:M) and one-to-one (1:1) detection options that can be employed using Better Tomorrow –

- **Many-to-Many (M:M)** – Is the process of comparing multiple images of faces/bodies with a database of faces/bodies. A **Score** is generated for each comparison. The recommended **Threshold** for a match is 0.55. Higher than this represents high certainty of a match.
- **One-to-Many (1:M)** – Is the process of comparing a single face/body with a database full of faces/bodies. A **Score** is generated for each comparison. The recommended **Threshold** for a match is 0.55. Higher than this represents high certainty of a match.
- **One-to-One (1:1)** – Is the process of comparing a single image of a face/body with a single image of a face/body. A **Score** is generated for this comparison. The recommended **Threshold** for a match is 0.375. Higher than this represents high certainty of a match.

Ongoing Usage Scenarios

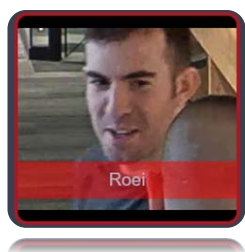
Better Tomorrow's detection, recognition and alerting features can be used in the following scenarios:

- [Waiting for Automatic POI Alerts from Live Camera Feeds](#), page 16
- [Retroactively Searching for POIs in the Live Camera Feeds](#), page 16
- [Forensics – Detecting POIS in Offline Video/Images](#), page 16

Waiting for Automatic Alerts

The Better Tomorrow Dashboard automatically displays an alert when a POI (in the Watchlist) is detected in the streams of one of the connected live streaming cameras.

For example, a building may have 10 cameras streaming to the Better Tomorrow platform. Defining a person as a POI will enable the system to automatically and immediately alert you when this person appears in a frame of any of these cameras. The following indication pops up on the Dashboard showing a person's picture, name, the time they were detected and the camera that detected them:



Retroactively Searching for POIs in BT Detections

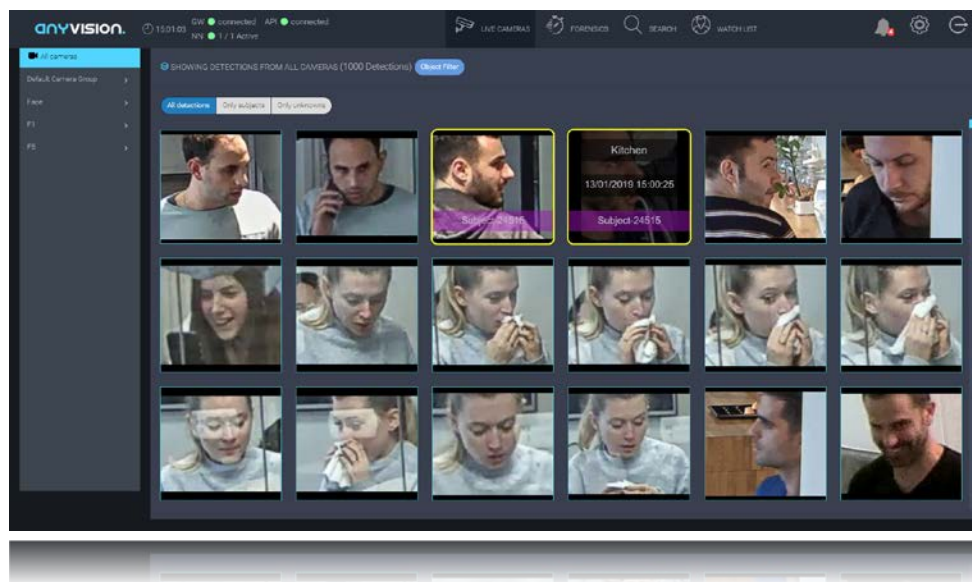
Better Tomorrow enables you to retroactively search for POIs in videos and images that were previously analyzed by Better Tomorrow. For example, you can check whether a certain POI was in your building during a certain time period by using the search option to search for an image of the POI in the collection of detections from the cameras in your building.


Forensics – Detecting POIs in Offline Video/Images

Better Tomorrow enables you to upload offline videos, still images or VMS playbacks into Better Tomorrow. Better Tomorrow will detect faces and bodies and recognize and alert you regarding the appearance of any of the POIs that you defined.

Better Tomorrow Dashboard

The following describes the options in the Better Tomorrow dashboard.



LIVE CAMERAS – Displays a scrollable gallery of the faces and bodies detected in the videos and images and marks recognized POIs with a colored stripe across their photo. This option enables you to drill down to see more details about each person, including POI videos, POI images and the detection timeline. You can also click the AnyVision logo  at the top left of the page to display the LIVE CAMERAS page. See page 19 for more details.



FORENSICS – Enables you to upload offline videos, still images or VMS playbacks into Better Tomorrow so that it can detect faces and bodies and then recognize and alert you regarding the appearance of any of the POIs defined in the WATCHLIST. See page 27 for more details.



SEARCH – Enables you to retroactively search for POIs in videos and images that were previously analyzed by Better Tomorrow. See page 31 for more details.



WATCHLIST – The WATCHLIST contains the list of people and their images to be recognized as POIs (suspects) by Better Tomorrow. This option enables you to add and manage the POIs in Better Tomorrow. See page 37 for more details.

Note – In this user guide, in most cases, each time a feature is described for faces, it also applies to bodies.

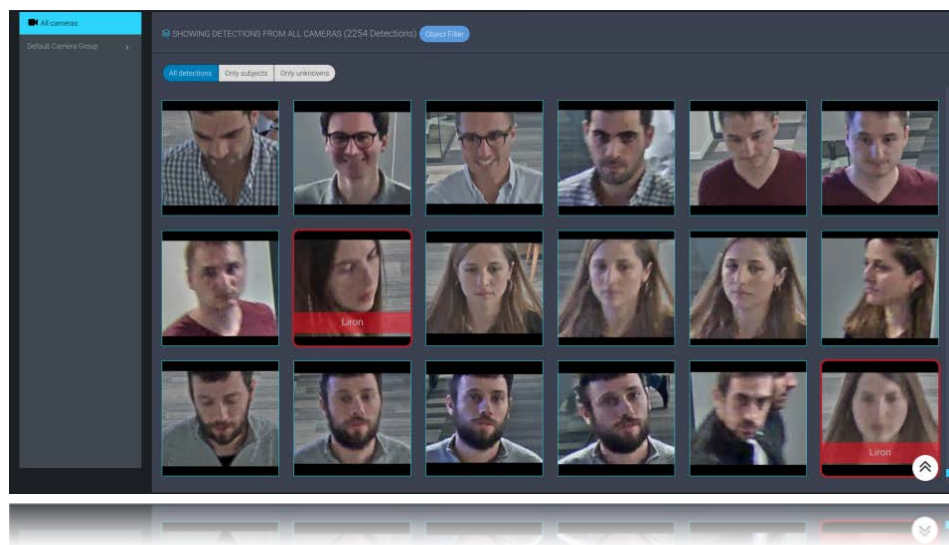
03 LIVE CAMERAS

This chapter describes the LIVE CAMERAS module.

Introduction

The **LIVE CAMERAS** tab displays a scrollable gallery of the faces detected in the videos and images and marks recognized POIs with a colored stripe across their photo. The gallery may also show detected bodies (depending on the definitions of the camera).

Click the  tab to display the following:




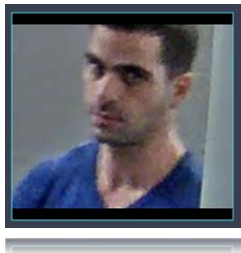
Clicking an image in the gallery displays more details about it. The following describes the details that are displayed for:

- Detected people that are not on the Watchlist (meaning non-POIs), page 20
- Recognized people that are in the Watchlist (meaning POIs, also called Suspects), page 23.

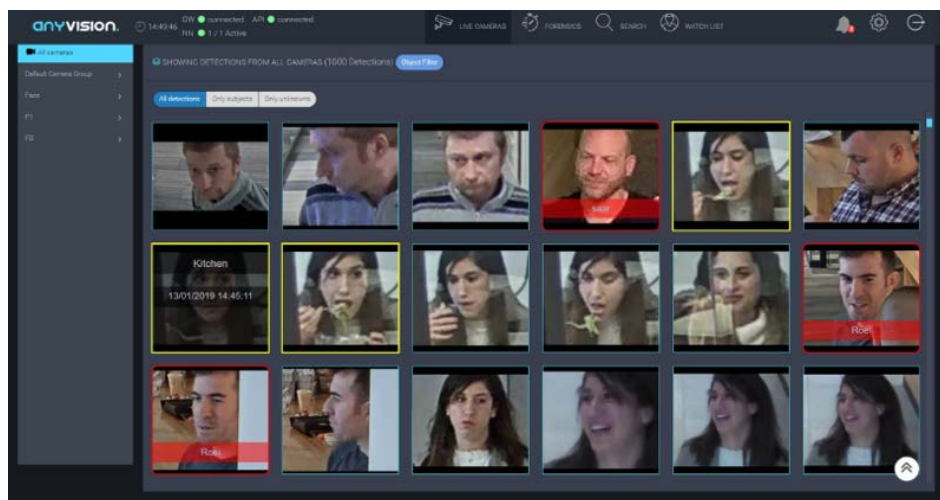
Non-POIs in the Gallery

Any detected face that is not a POI is shown in the gallery with a colored frame around it and does not have a stripe across it. The color of the frame indicates the following –

- **Unknown** – Unknown means that the person is not defined in the WATCHLIST and is therefore not a recognized POI. Unknown faces appear framed by the color defined in **Settings** . For example –

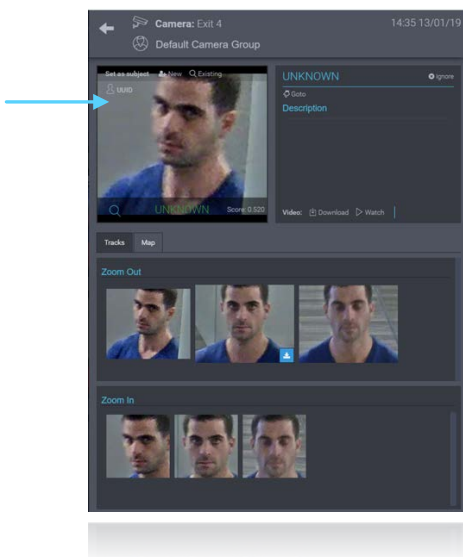


- **Collate – Yellow** – When the same person is recognized within the last 60 seconds, that person's image is displayed in the gallery. Each appearance of their face appears in yellow to indicate that it is the same person. For example, as shown below –





Non-POI Details

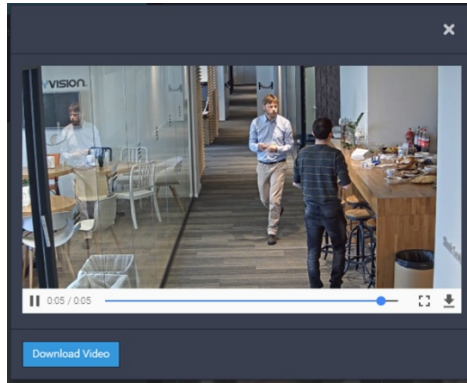
Clicking the image of a detected face (or body) that is not a POI displays the following window showing more details –




The following describes the options in this window:

- **Camera: Exit 4** – The name of the camera that detected the person.
- **Default Camera Group** – The group to which the camera that detected this person belongs. Camera Groups are defined in the **LIVE CAMERA GROUPS** area of the **Settings** .
- **Timestamp** – The date and time when this person was detected.
- **Zoom Out** – Additional detected images of the same person.
- **Zoom in** – The same images as in the **Zoom Out** area, but zoomed in.

-  **Watch** **Detected Image** – The top left of this window shows a larger image of the first detection of this person. Click this button to watch six seconds of a full view of the video in which this person was detected – three seconds before the person was detected, and three seconds after. The **Download Video** button enables you to download these six seconds of video. For example, as shown below:

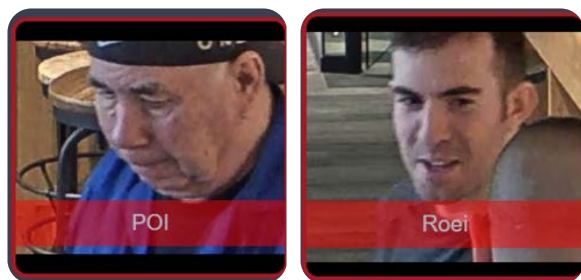


-  **Download** – Provides the same download video option as described above.
- **Ignore** – Click this option to specify that a specific detected image is not of a face or a person and should be ignored in the future. For example, as shown below:

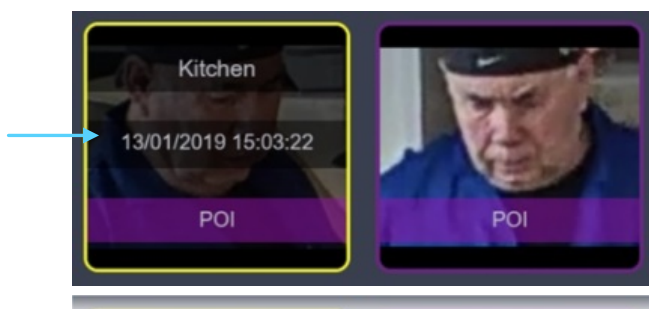


Recognized POIs in the Gallery

Each recognized POI is displayed in the gallery with a colored frame and a colored stripe around it. The color is determined by the Watchlist Group to which the POI belongs, as defined in the **Settings**. For example –



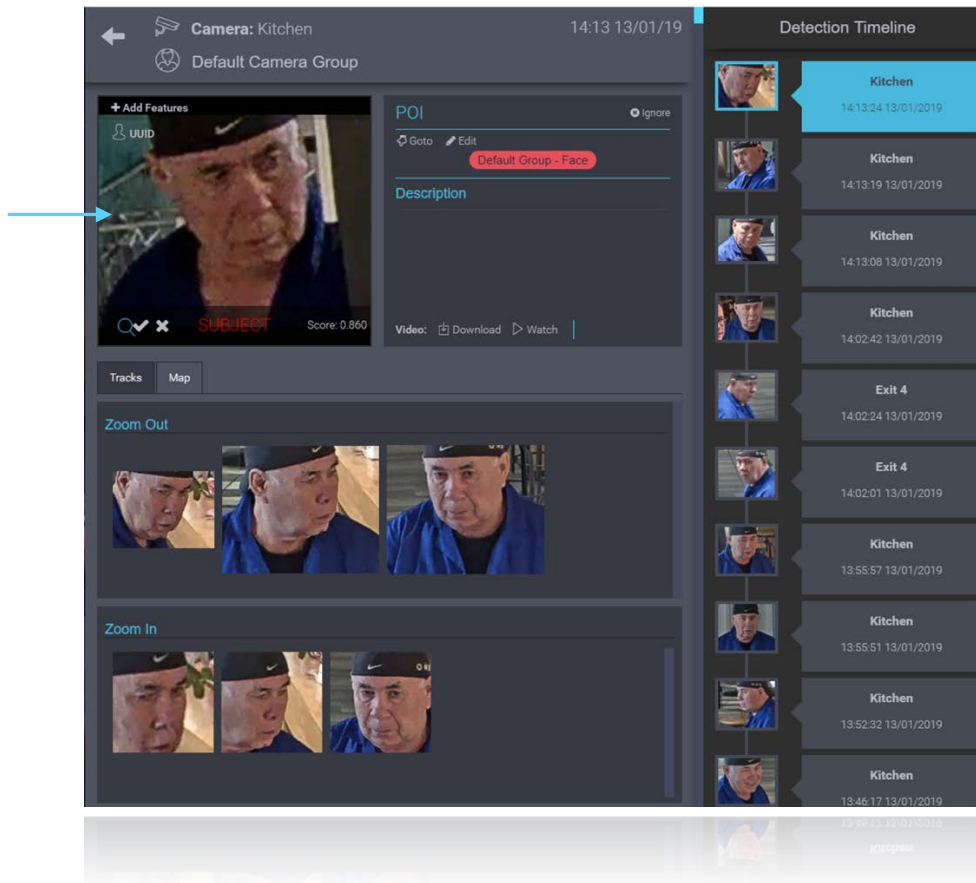
Hovering over an image shows more information about it, such as the name of the Watchlist group in which the person was detected, the timestamp when they were detected, and the name assigned to a POI:



The color of POI is defined in the **WATCHLIST** area of the **Settings** .

POI Details

Clicking the image of a recognized POI displays the following, which shows more details:

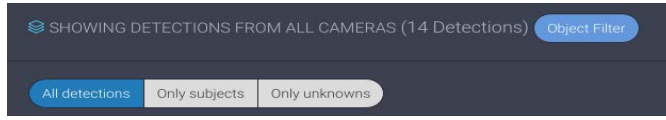


Many of the options in this window are the same as those displayed for the non-POIs in the gallery, as described on page 20, except for the following:

- **Reference Image** – The top left of this window shows a larger image of this POI. This is the reference image that was uploaded into Better Tomorrow when the POI was defined in order to detect the POI. You may refer to the *Adding POIs* section on page 39 for more details.
- **Detection Timeline** – The right side of this window provides a timeline of the detections of this POI per camera, meaning that a different image appears in this timeline for each initial recognition of this POI in a camera's field of view. This enables you to track the movement and location of the POI over time. You can click an image to view. By default, the system retains detection timeline information for 30 days.

Filtering the LIVE CAMERAS Gallery

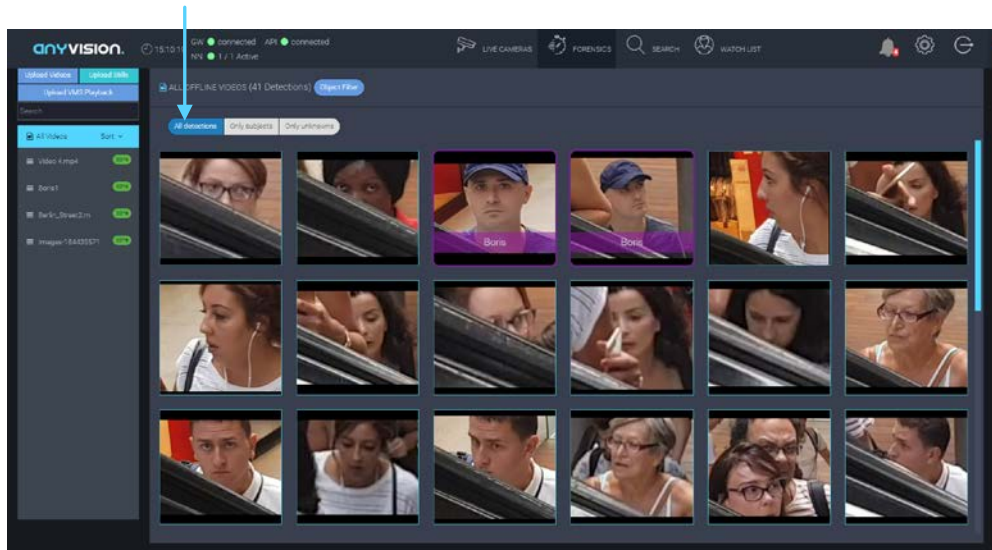
By default, the gallery shows the last 1,000 detections for you to scroll through or to filter.



Use any of the following options to filter the images and information displayed in the LIVE CAMERAS Gallery.

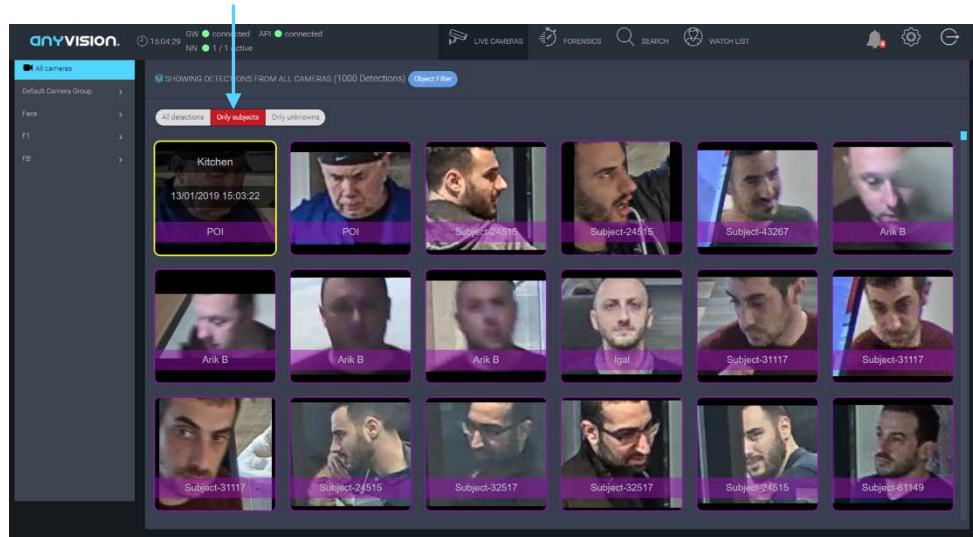
All Detections

This default **All Detections** option displays the most recent 1,000 faces (and bodies) detected by Better Tomorrow.



Only Subjects

The **Only Subjects** option filters the display in the LIVE CAMERAS gallery to only show POIs, meaning suspects defined in the WATCHLIST.



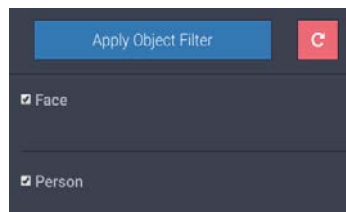
Only Unknown

Select this option to filter the display in the LIVE CAMERAS gallery to only show people that are not POIs and that are not defined in the Better Tomorrow whitelist.

Object Filter

The **Object Filter** button enables you to filter the display in the LIVE CAMERAS gallery to only show face detections or body (person) detections.

The following displays:



Check the relevant checkbox(es).

You can click the **Reset to Default**  button to reset the filter to its default setting.


04 FORENSICS

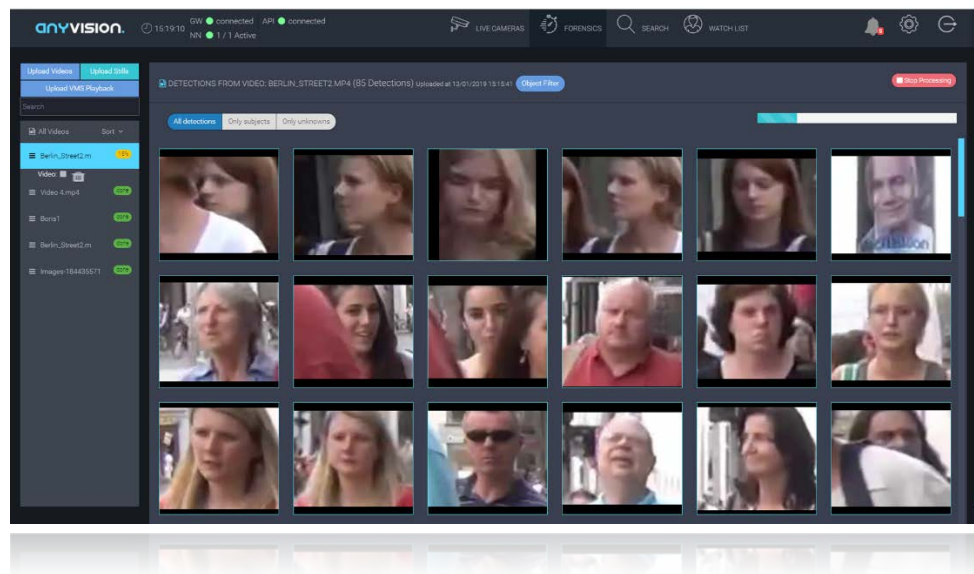


This chapter describes the Forensics module.

Introduction

The FORENSICS page enables you to upload offline videos, still images or VMS playbacks into Better Tomorrow. Better Tomorrow will detect faces and bodies and recognize and alert you regarding the appearance of any of the POIs defined in its WATCHLIST.

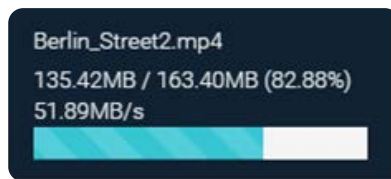
Click the  tab to display the following:



Uploading and Analyzing a Video

To upload and analyze a video:

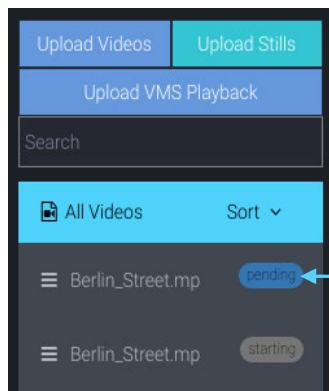
- 1 Click the **Upload Videos** button to upload a video to Better Tomorrow. A standard video file selection window is displayed.
- 2 Select the video file and click the **Open** button. While the video is uploading, a progress bar is displayed –







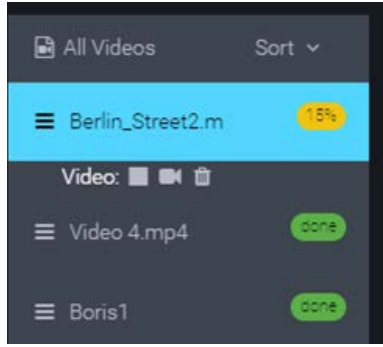
- 3 After the video has been uploaded, it appears with a green **done** button –




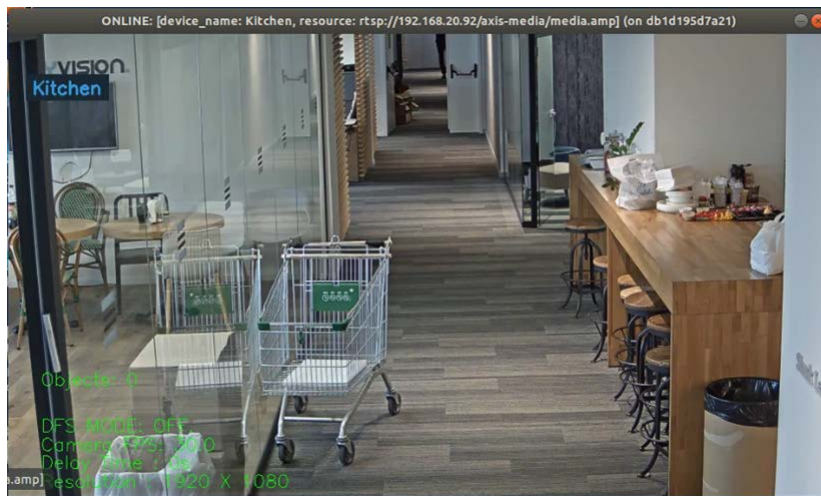
- 4 You can also select multiple videos at once in order to analyze them simultaneously. If your Better Tomorrow license does not permit enough simultaneous streams, then simply wait for the other videos to finish. Waiting videos are shown as **pending** and automatically start being analyzed after the first one has finished.



- 5 When a video is being analyzed, you can click its name to display a set of tools that enable you to play the stream , pause it , delete the video  and so on.
- 6 The analysis process progress is displayed as a percentage . For example, as shown below –



The Better Tomorrow server also enables you to watch the video as it is being uploaded. A  icon appears on the desktop for each video stream. You can double-click it to watch the video. For example –

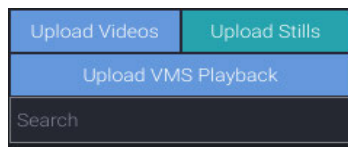


Analyzing Still Images

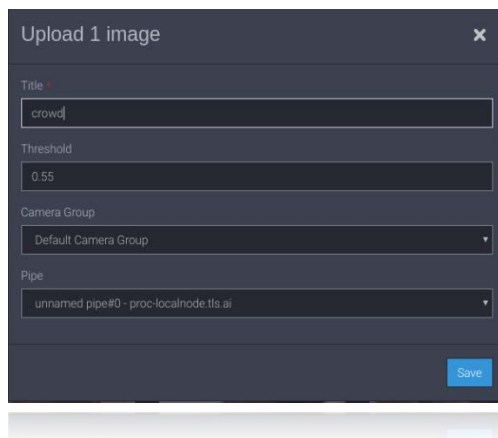
The following describes how to analyze a photo in order to extract the face in the photo and to detect whether it is a POI in the WATCHLIST.

To analyze a still image:

- 1 Click the **Upload Stills** button to upload an image file to Better Tomorrow.



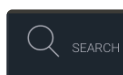
- 2 A standard image file selection window is displayed.
- 3 Select the image file and click the **Open** button. The following displays:



- 4 Fill in the following fields:
 - **Title** – The name of the analysis.
 - **Threshold** – We recommend that you leave the default value in this field. If you want more information about this field, then refer to page 14 and/or contact AnyVision support for more information.
 - **Camera Group** – The group to which the camera belongs.
 - **Pipe** – The Better Tomorrow Neural Network (NN) Engine to analyze the photo.
- 5 Click the **Save** button.

05 SEARCH

This chapter describes the SEARCH module.




Introduction

The **SEARCH** page enables you to retroactively search for POIs in videos and images that were previously analyzed by Better Tomorrow. By default, Better Tomorrow searches in the last 24 hours and retains 30 days of detections. These options are configurable and are dependent upon the storage space that you allocate to Better Tomorrow.

For example, you can check whether a certain POI was in your building during a certain time period by using the SEARCH option to search for an image of the POI in the collection of detections from the cameras in your building.

Retroactively Searching Detections

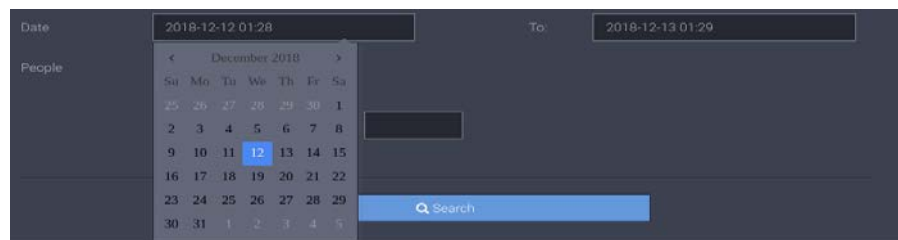
To search through past detections:

- 1 Click the  tab to display the following –

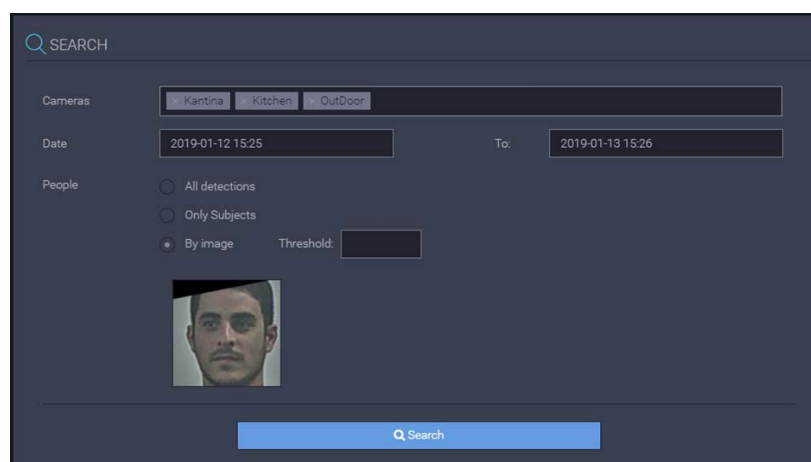
A screenshot of the SEARCH interface. At the top left is a magnifying glass icon and the word "SEARCH". Below this are several input fields: "Cameras" with a dropdown menu showing "All cameras"; "Date" with a date field containing "2019-01-12 15:25" and a "To:" label followed by a date field containing "2019-01-13 15:26"; and "People" with three radio button options: "All detections" (selected), "Only Subjects", and "By image" (with a "Threshold:" label and an empty input field next to it). At the bottom center is a blue button with a magnifying glass icon and the word "Search".

2 Fill in the fields in the Search window in order to specify the detections to search:

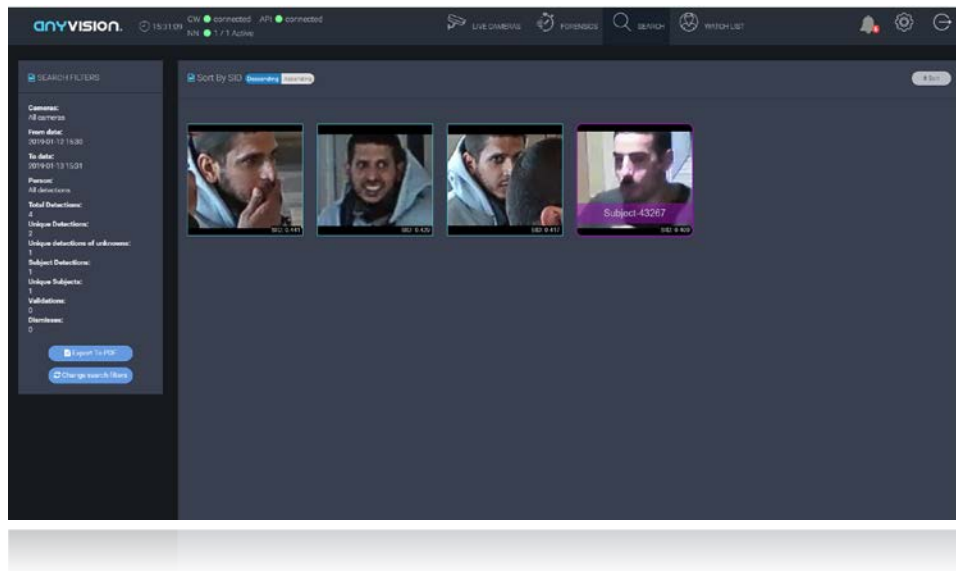
- **Cameras** – Select the detections to be searched according to the cameras that recorded them. The cameras in the **offline** category are videos and images that were uploaded using the **FORENSICS** tab, as described on page 27.



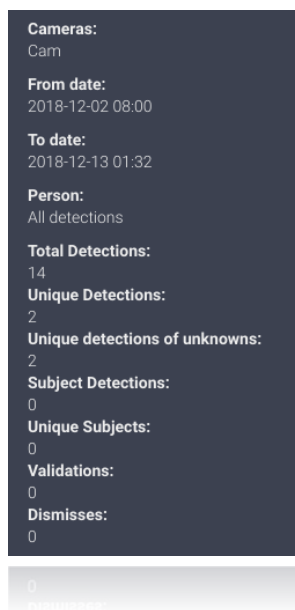
- **Date/To** – Specify the time range within which to search. The default time is 24 hours back. Be sure to edit the time frame accordingly. Specifying different time frames, of course, provides different results.
- **People** – Select the type of people for which to search, as follows –
 - **All Detections** – Retroactively searches through all detections retained by Better Tomorrow.
 - **Only Subjects** – Only retroactively searches through POIs, meaning people defined in the Better Tomorrow WATCHLIST.
 - **By Image** – This option enables you to upload an image and retroactively search for the person that appears in the uploaded image through all the POIs defined in the WATCHLIST.



- **Threshold** – We recommend that you leave the default value in this field. If you want more information about this field, then refer to page 14 and/or contact AnyVision support for more information.
- 3 Click the **Search** button to start the search and display the results. A single image is displayed for each result. For example, as shown below –



- 4 In addition, you can click the **Export to PDF** button to create a report showing these results.
- 5 The left side of the page provides general details about the results, as follows:

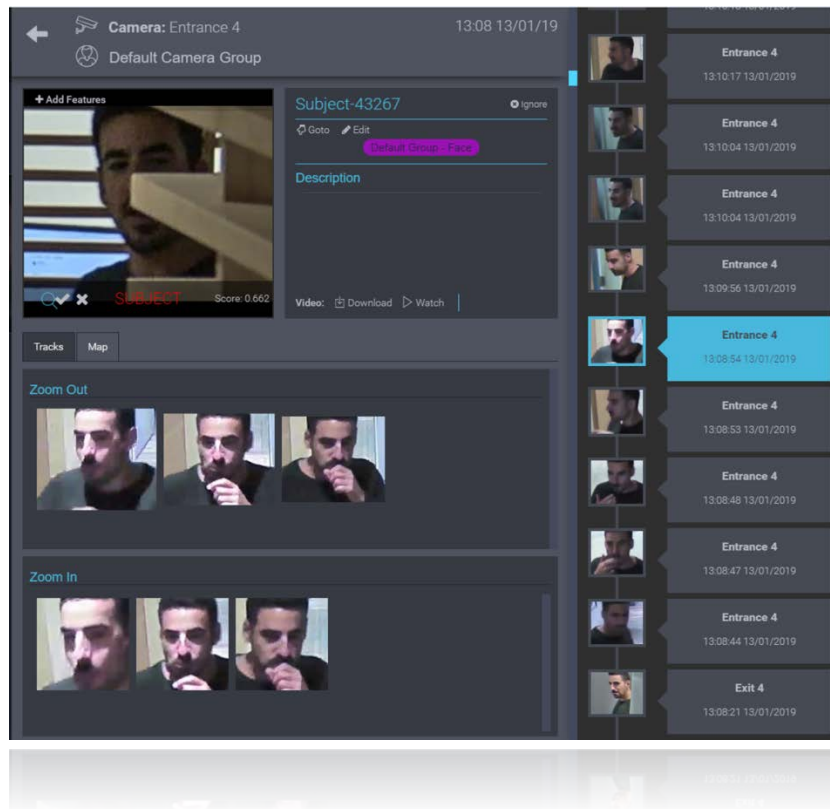


- **Cameras** – The names of the cameras that recorded the video/image.
- **From date** – The start date of the search.

- **To Date** – The end date of the search.
- **Total Detections** – The total number of detections identified in the search.
- **Unique Detections** – The total number of unique people in the search. For example, 2, as shown above.
- **Unique Detections of Unknowns** – The number of unidentified POIs in the search, meaning that these people have not been defined as POIs in the Better Tomorrow WATCHLIST.
- **Subject Detections** – The number of POIs detected in the search.
- **Unique Subjects** – The number of different POIs detected.
- **Validations** – The number of times a detection was confirmed as actually belonging to a POI.
- **Dismisses** – The number of times a detection was denied as actually belonging to a POI.

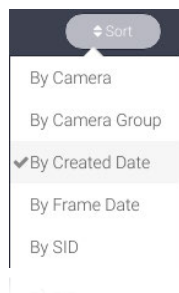
Additional Options

The images displayed in the gallery have similar options to the LIVE CAMERAS page, described on page 18. For example, you can click an image to display more details about it, as shown below:



Sorting Results

The **Sort** option enables you to arrange the sorted results.



You can sort the results by the following criteria –

- **Camera** – Sorts the detections based on their source.
- **Camera Group** – Sorts the detections by camera group. For example, there may be several cameras covering an entrance. You can group these cameras into a single camera group. This enables you to see all the detections for all the cameras covering that entrance.
- **Created Date** – Indicates when the detection was created in the system.
- **Frame Date** – Sorts by the time when the detection was made.
- **SID** – Sorts by the detection score. The detection score is a reflection of the similarity between the two mathematical models (of the reference mathematical model in the Watchlist and the recognized one).

06 WATCHLIST



This chapter describes the WATCHLIST module.

Introduction

The **WATCHLIST** tab enables you to add and manage the POIs that are added to Better Tomorrow. The WATCHLIST contains the list of people and their images to be recognized as POIs (suspects) by Better Tomorrow. The typical purpose of the WATCHLIST is to enable the system to trigger alerts when any of these people are detected in the videos.



Click the  tab to display the following:

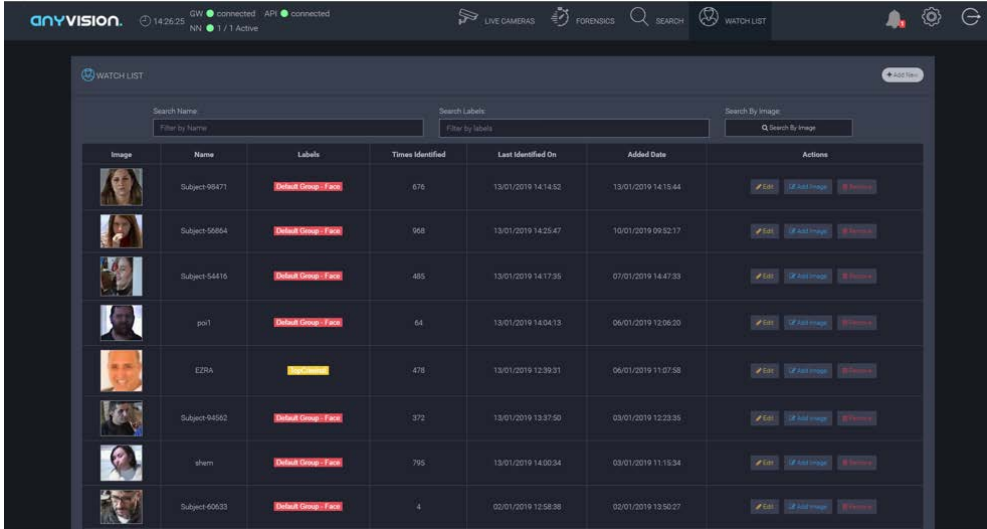






Image	Name	Labels	Times Identified	Last Identified On	Added Date	Actions
	Subject 95471	Default Group - Face	676	13/01/2019 14:14:52	13/01/2019 14:15:44	Edit Add Image Remove
	Subject 58554	Default Group - Face	968	13/01/2019 14:25:47	10/01/2019 09:52:17	Edit Add Image Remove
	Subject 54416	Default Group - Face	485	13/01/2019 14:17:39	07/01/2019 14:47:33	Edit Add Image Remove
	poi1	Default Group - Face	64	13/01/2019 14:04:13	06/01/2019 12:06:29	Edit Add Image Remove
	EZRA		476	13/01/2019 12:39:31	06/01/2019 11:27:58	Edit Add Image Remove
	Subject 94562	Default Group - Face	372	13/01/2019 13:37:50	03/01/2019 12:23:35	Edit Add Image Remove
	shem	Default Group - Face	795	13/01/2019 14:00:34	03/01/2019 11:15:34	Edit Add Image Remove
	Subject 60633	Default Group - Face	4	02/01/2019 12:58:38	02/01/2019 13:30:27	Edit Add Image Remove

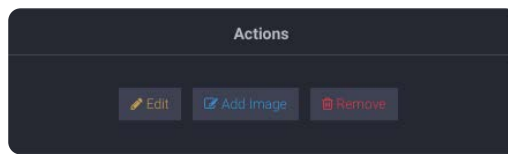
WATCHLIST POIs

The WATCHLIST tab provides the following columns of information about each POI

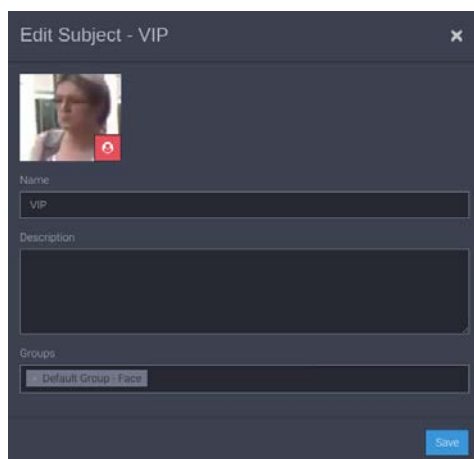
Image	Name	Labels	Times Identified	Last Identified On	Added Date	Actions
	VIP	Default Group - Face	3	16/12/2018 23:06:53	11/12/2018 00:05:53	  

- **Image** – Shows the image of the POI.
- **Name** – Specifies the name of the POI.
- **Labels** – Specifies one or more group labels assigned to the POI.
- **Times Identified** – Specifies the number of times the POI was identified.
- **Last Identified** – Specifies the last date on which the POI was identified.
- **Added Date** – Specifies the date when the POI was added, as described below.

Actions – Enables you to perform the following actions for a POI in the WATCHLIST –




- **Edit** – Enables you to edit a POI in the WATCHLIST.

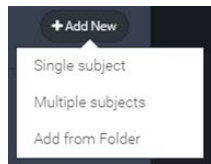


- **Add Image** – Enables you to add an image for a POI in order to improve future detections. For example, you can add multiple images of the POI from different angles.
- **Remove** – Removes the POI from the WATCHLIST.

Adding POIs

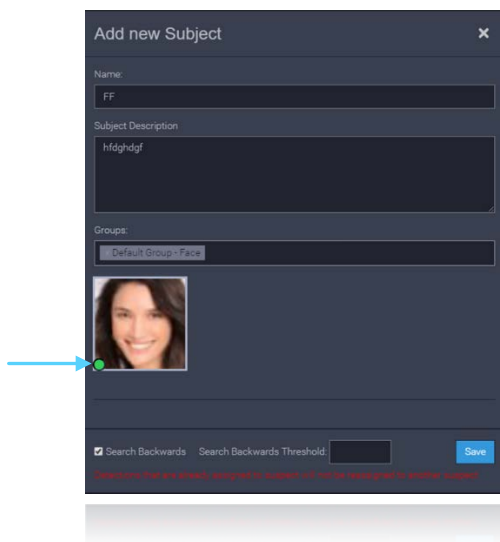
To add one or more new POIs:

- 1 Click the  tab to display the WATCHLIST.
- 2 Click the **+ Add New** button at the top-right corner. The following dropdown menu displays –




- 3 Select one of the options for adding one or more POIs (subjects), as follows –
 - **Single Subject** – To add a single POI by uploading one or more image files of that person. Each file must contain a single image.
 - **Multiple Subjects** – To add up to 20 POIs at the same time by uploading a single image file for each person. Each file must contain a single image.
 - **Add from Folder** – To add a large number of POIs from a folder – each file showing a single POI. Each file must contain a single image.

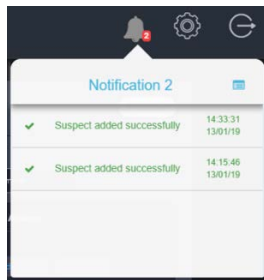
- 4 A file selection window is displayed from which you must select one or more image files. You may refer to page 8 for a description of the supported image file formats. The following displays when the **Single Subject** option is selected –



A small dot appears at the bottom-left corner of each image to indicate its quality, as follows –

- **Green** – Good.
 - **Orange** and **Red** – These two colors are assigned to low-quality images, where red is the lowest. Low-quality images may result in more false positives and less recognition. These images are automatically assigned to a special group by the system.
- 5 Fill in the following details to define a POI:
 - **Name** – The free-text name of the POI.
 - **Description** – The free-text description of the POI.
 - **Groups** – Groups are used to categorize POIs, and each is assigned a label and color using the  option. For example, you might assign main suspects to one group and their known associates to another group. These group names are displayed in the colored stripe that appears on the photo of a recognized POI in the gallery.
 - **Search Backwards** – Select this option to have the system retroactively search through all detections and mark those that match this image as POIs (suspects).

- **Search Backwards Threshold** – This field is intended for administrators. We recommend that you leave the default value in this field. If you want more information about this field, then refer to page 14 and/or contact AnyVision support for more information.
- 6 Click **Save**. From now on the Better Tomorrow gallery will detect images of this person as a POI (suspect). This action is added to the notification list, as shown below –



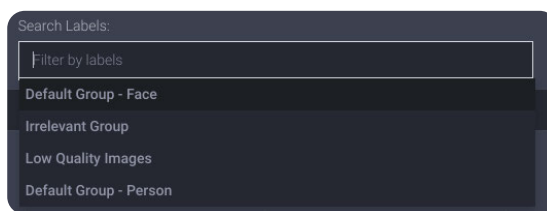
Filtering the WATCHLIST

The following options are provided for filtering the WATCHLIST for reviewing purposes. This does not affect the system's recognition features.

- Filter by POI name.



- Filter by group label.



- To upload an image and search for it in the WATCHLIST.

