GetFace®
USER GUIDE
V.1.5

milestone
CERTIFIED
SOLUTION

milestone
GOLD
TECHNOLOGY
PARTNER

6SS

Table of Contents

Copyright and Disclaimer

Copyright © 2021 6SS L.L.C.

Introduction

6SS GetFace® is a Biometric Artificial Intelligence based video analysis application which is used for identifying or verifying uniquely a person, by comparing his facial features detected from digital images or video frames with faces within a database. It uses existing IP cameras and CCTV cameras combined with Computer Vision to determine a person's identity. The algorithm will run on 6SS Face Server® which will be analyzing the RTSP streams coming directly from the cameras, comparing them against a pre-defined database and sending back Meta Data which will allow the Smart Client user to receive data and alerts related to the person's identity in addition to the picture and the video of the person. If the camera captures an unrecognized face, a notification can be sent out to the administrator in order to take the appropriate action.
6SS GetFace® provides as well features capabilities including gender classification, age evaluation, face mask recognition, facial expression and attributes detection for each person in the frame.

6SS GetFace® Main Features

- Automatic identification of people identity
- Supports all camera types that are compatible with Milestone VMS (more than 10000 IP devices)
- Can work with any existing camera without the need of dedicated cameras
- Integrated with Milestone XProtect Corporate, Expert, Professional+, Express+ and Essential+
- Accessed from the Smart Client interface
- Integrated with Milestone Map functionality for visual and audio alerting including the camera location
- Gender classification, age evaluation, face mask recognition, facial expression and attributes detection for each person in the frame
- Contact-less identification
- No need for ID cards or Access Keys
- Ability to determine the identity of people who are wearing face masks
- Ability to detect and identify several faces present in the image at the same time
- Video acquisition from IP Cameras, Analog Cameras and off-line video streams
- Import faces images from a file or folder
- Ability to configure real time alarm notifications
- Multi-Channel recognition
- Ability to generate reports of the alarm events occurred in a defined timeframe
- Ability to stream out the real time processed video flow
- Unlimited configurable independent alarm zones, of any shape and size
- Off-line interrogation of the identified faces database, time-based or by individual face search
- Tampering function, to trigger an alarm on detection of camera obscured, dazzled or moved
- Video Loss function, to trigger an alarm on the loss of the video flow communication

Getting Started

System Components

- Windows OS 8.1 or above
- Microsoft .NET framework 4.5 or newer (for .NET components usage).
- Microsoft DirectX 9.0 or later
- Microsoft SQL Server Express, Standard or Enterprise edition
- Milestone XProtect Corporate, XProtect Expert, Professional+, Express+, or Essential+
- 6SS GetFace® application

Minimum System Requirements

Central Processing Unit (CPU):
- 3 GHz or better processor with 6 cores is recommended
- x64 (64-bit)
- AVX2 support is highly recommended

Graphical Processing Unit (GPU):
- GPU is required if you want to process more than 2 video streams simultaneously
- NVIDIA GeForce GTX 1080 GPU or better is recommended to process up to 10 video streams on a node
- Several GPUs can be used on the same machine to process larger number of video streams
- At least 6 GB of VRAM is recommended
- Compute Capability 3.5 or better should be supported by the GPU.
- CUDA 11.2 toolkit or newer is required
- cuDNN 7.5 library is required

Random Access Memory (RAM):

● At least 8 GB of RAM

System Introduction

6SS GetFace Application

6SS GetFace application can connect a camera through RTSP and get live stream to detect human faces and show prediction for age and detection for gender, glasses, sun glasses, beard, mustache, and mask.
Also the application detect predefined face and display his details. Predefined face can be related to alarms that will be showing in the application.

6SS GetFace Client Plugin

New tab in Milestone XProtect Smart Client will be added to show information, snapshots, and statistics about the GetFace detections, in addition to real time face detection in live tab.

6SS GetFace Central Search Plugin

GetFace also integrates with Milestone 2020 R1 central search feature for video footage search and criteria filtering.

6SS GetFace Client Plugin

After installing 6SS GetFace plugin, a new tab in Milestone XProtect Smart Client will be shown: 6SS GetFace.
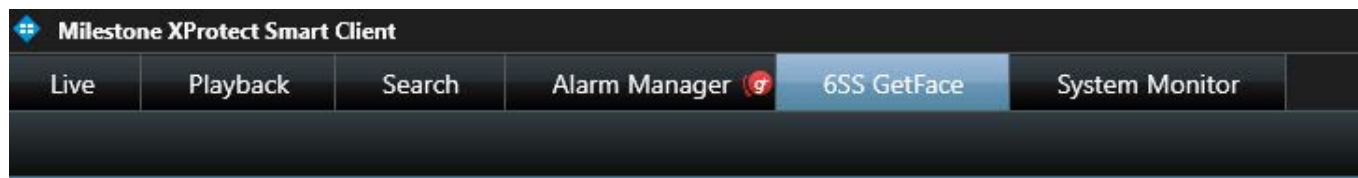
Login to the smart client and navigate to live tab. Create a view and drag and drop 6SS GetFace live plugin into the view.
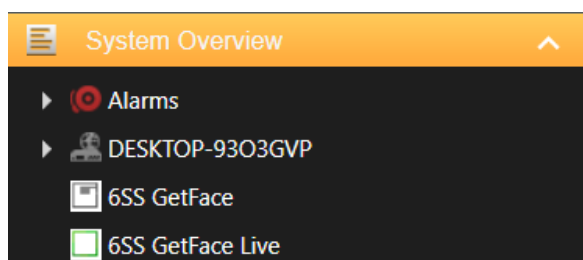
Select Camera to see live streaming, and check the captured faces in the right panel.
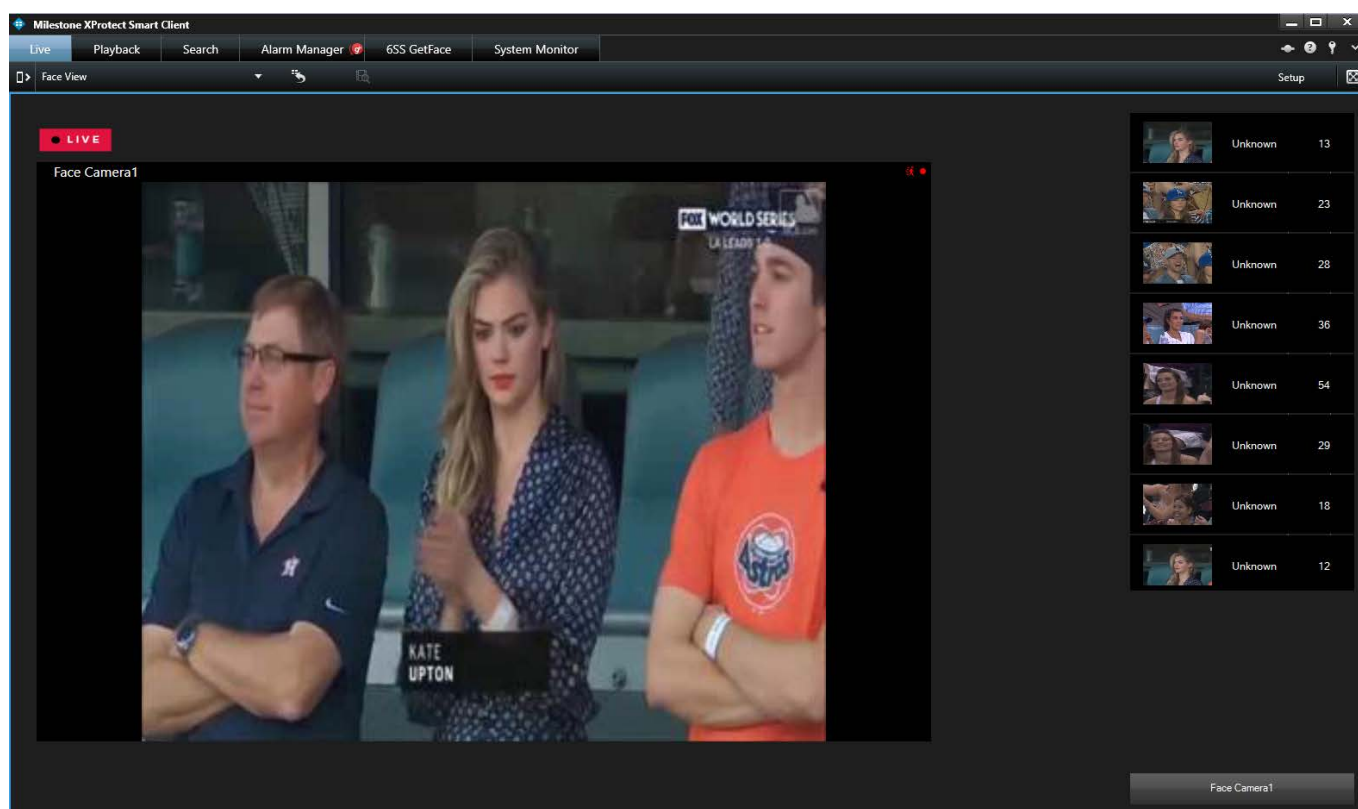
Navigate to 6SS GetFace tab, click Archive and select a date time period to check the list of faces detected within this period.
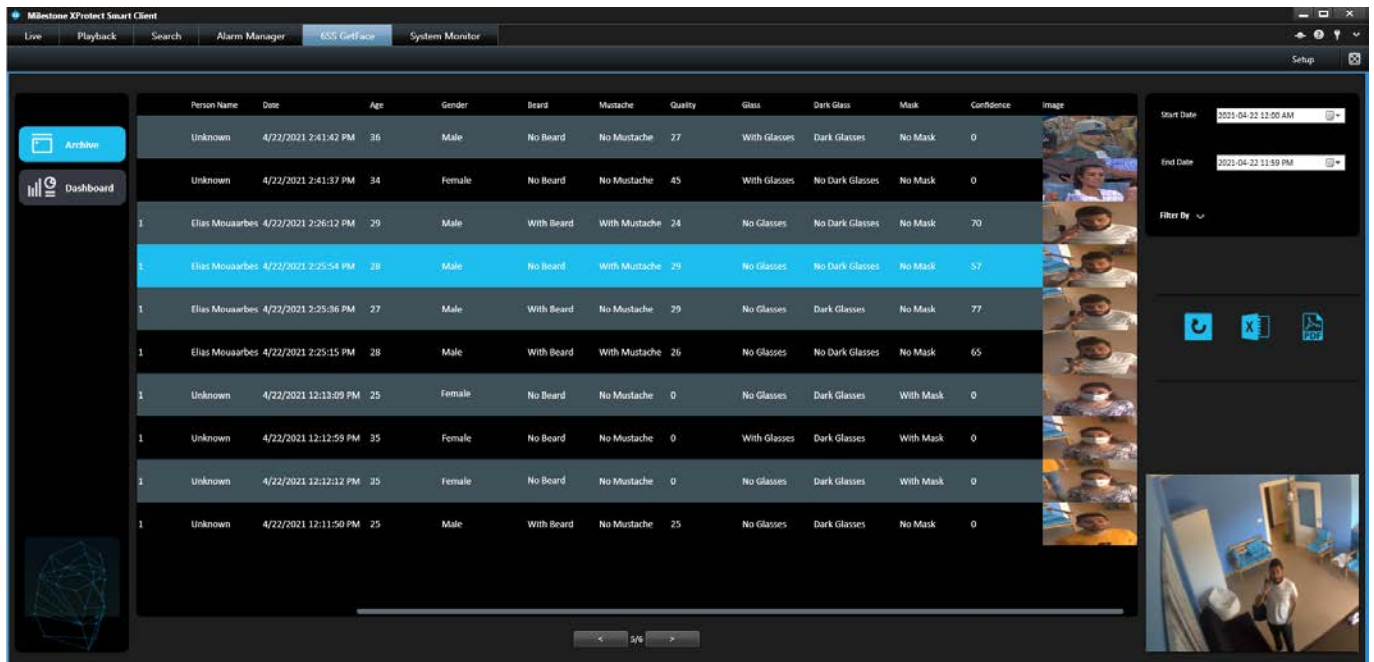
Choose to filter the list by selecting the appropriate filters for your search.

You can export the result in Excel or PDF format.

Click Dashboard to get some live statistics about yearly, monthly, weekly, and daily variation of gender, mask, age, and features detections including beard, mustache, glasses, and dark glasses.

Click Alarm Manager tab to check any triggered alarms by GetFace module, such as if a person is listed among the blacklisted faces.

6SS GetFace Central Search Plugin

Navigate to Search tab, choose a date time period and choose the list of cameras to be included in the search criteria, click Search for button and check GetFace module then click New search.
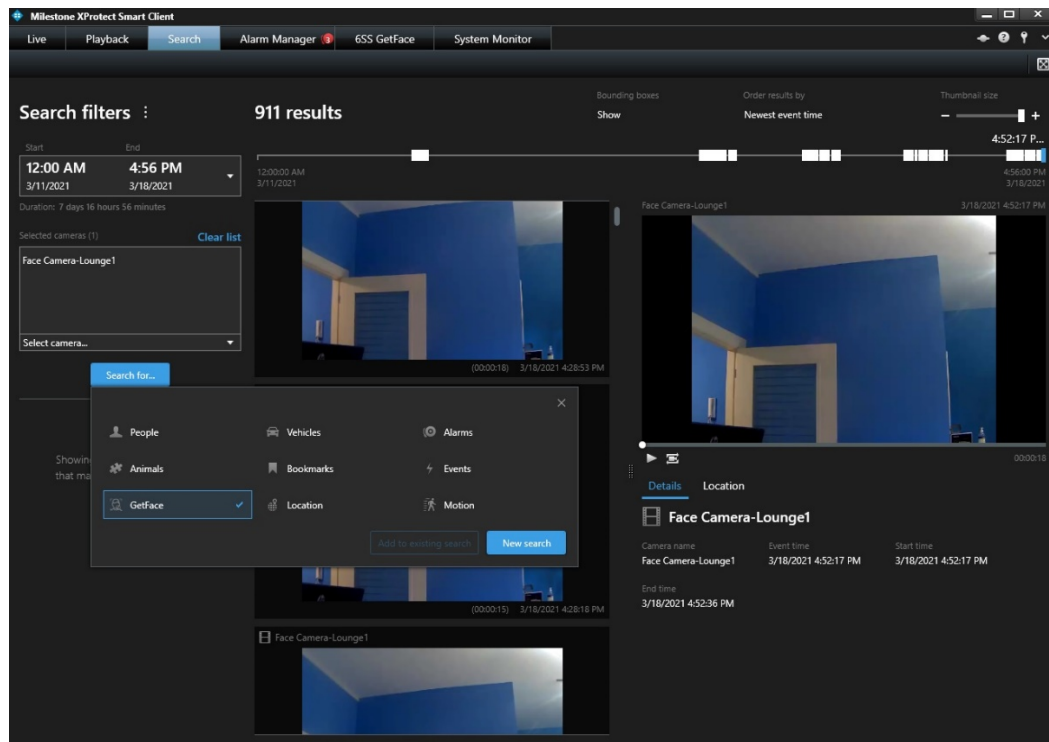
Choose the filter criteria relevant to your search, either age estimation, mask detection, or any of the person's face features (beard, mustache, glasses, dark glasses).
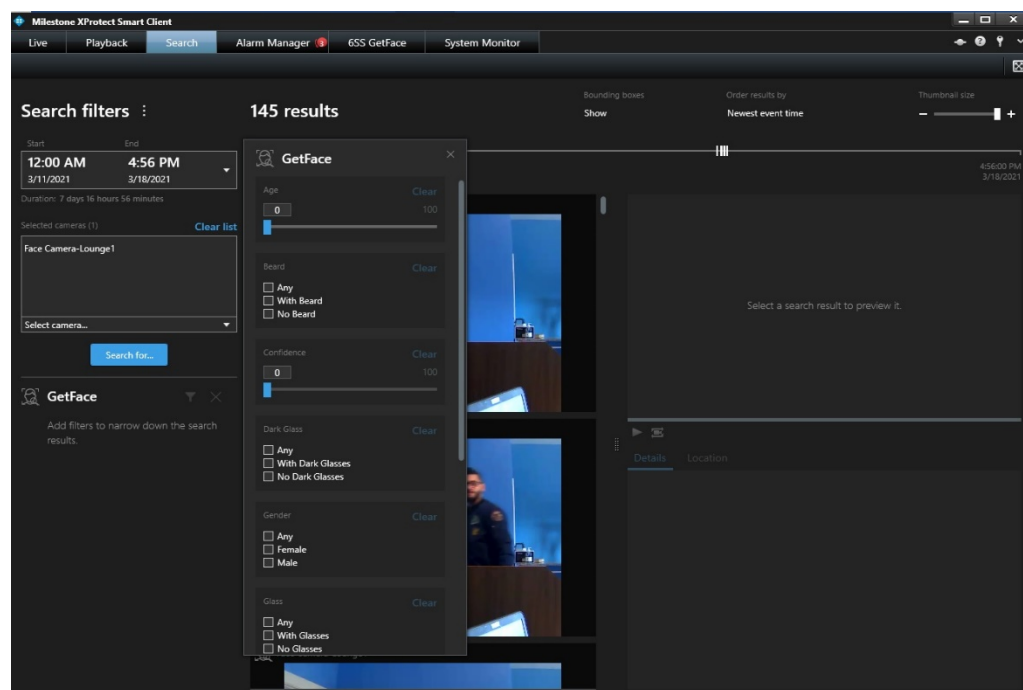
All video results will be shown based on the chosen criteria. By clicking on a certain video footage, you will be able as well to play the recorded video at the triggered event time, and check all information related to this frame.

About 6SS

6SS was founded in 2013 with Headquarters in Minnesota, USA. 6SS is a modern video surveillance and security systems company that provides complete security solution that you need and deserve, from Software to Hardware to Professional Services and Training.

All our products will integrate fully with the Milestone VMS. ◆

Any Questions?

Please reach out to us if you have any question or inquiry
Email us at info@6ss.co

For more information visit:
www.6ss.co

Headquarters

7725 Bryant Ave N,
Brooklyn Park,
MN 55444 USA
Telephone: +1-651-233-0977