# 南理工人脸识别接口文档

## 动态识别

### 动态抓拍检索

Hitalert

Websocket(Hybi13, Hybi14) [http://localhost:8080/v1/hitalert/1](http://localhost:8080/v1/hitalert/1%20)

Websocket，开启ID为1的布控任务，客户端样例为client.Html

连接完毕 则开启任务, 客户端关闭Websocket则，布控任务停止

同一时间只能有一个布控任务，若开启多次，只有第一次开启成功，后面的连接返回”False”，而后服务端自动关闭Websocket

返回Json数组

入参：无

出参：

[{"FaceQueryImagePath":"QueryFaces/8fd1c8a7-fe0a-468e-b327-273c4a72e1b9.jpg","Threshold":0.6,"OccurTime":"2018-02-28 11:35:18","Details":[{"ID":0,"Score":0.6035838,"UserInfo":{"ID":0,"Name":"njust14","PeopleID":null,"Gender":"","CardId":"","ImageID":null,"FaceImagePath":"RegFaces/049af2a5-001b-477c-bc17-8b50bf5f740c.jpg","CreateTime":null,"ModifiedTime":null,"Type":null}}]}]

标红数据为显示数据,以下为数据具体意义

FaceQueryImagePath：检测抓拍到的人脸

Threshold：设置的阈值

OccurTime：发生的时间

Details(比对细节)：可能有多个，显示第一个，若为空，则表示没有匹配结果，不显示。

Score：比对分数

UserInfo：底库人员细节

Name：姓名

FaceImagePath：底库人脸

## 静态比对

### 1:1比对

POST <http://localhost:8080/v1/verify/0>

入参：

接受base64类型的jason数据

{"PicSrc":””,"PicDst":同上}

或

{"PicSrc\_Path":"G:/科研项目/新街口/三逃底库/HX/测试库3(IDCF)/测试库3(IDCF)/测试库/0b214fdcd6afb9d1d7683e72e0e81c21.jpg","PicDst\_Path":"G:/科研项目/新街口/三逃底库/HX/测试库3(IDCF)/测试库3(IDCF)/测试库/3e15d64ca4cb4f98b375264176e15098.jpg"}

注：入参base64加密

出参：

比对分数

### 1:N比对

对id为1的底库进行比对 POST <http://localhost:8080/v1/verify/1>

入参：

接受base64类型的jason数据

{"PicSrc":””, "ScoreThresh":"0.7", "TopK":"8"}

或

{"PicSrc\_Path":"G:/科研项目/新街口/三逃底库/HX/测试库3(IDCF)/测试库3(IDCF)/测试库/0b214fdcd6afb9d1d7683e72e0e81c21.jpg", "ScoreThresh":"0.7", "TopK":"8"}

注：入参base64加密

ScoreThresh：设置比对阈值

TopK：比对返回结果数

出参：

[{"FaceQueryImagePath":"QueryFaces/1.jpg","Threshold":0.6,"OccurTime":"2017-10-22 12:19:28","Details":[{"ID":0,"Score":0.9,"PersonInfo":{"ID":0,"Name":"小明","PersonID":”C1”,"Gender":"男",”Birthday”:” 2017-10-22”,"CardId":"1",”Birthday”:” 2017-10-22” "FaceImagePath":"RegFaces/1.jpg","CreateTime":null,"ModifiedTime":null,"Type":"v"},{"ID":0,"Score":0.9,"PersonInfo":{"ID":0,"Name":"小明","PersonID":”C1”,"Gender":"男",”Birthday”:” 2017-10-22”,"CardId":"1",”Birthday”:” 2017-10-22”, "FaceImagePath":"RegFaces/1.jpg","CreateTime":null,"ModifiedTime":null,"Type":"v"}}]}

Details(比对细节)：若为空，则表示没有匹配结果，显示无匹配结果。

FaceImagePath：匹配的人脸照片

Name：姓名

Gender：性别

CardId：身份证

Score：比对分数

若无返回结果,返回{“num”:0}

## 查询检索

### 人脸抓拍

获取在任务ID为1的符合时间段的抓拍查询结果 POST http://localhost:8080/v1/hitrecord/1

入参：

{"StartTime":"2017-11-10 09:42:02","EndTime":"2017-12-29 09:42:02","StartIndex":0,"PageSize":30}

StartTime：开始时间

EndTime：结束时间

StartIndex：分页起始地址

PageSize：分页大小

出参：

{"num":3,"pageData":[{"id":3,"FaceQueryImagePath":"3","Threshold":3.0,"OccurTime":"2018/3/11 12:01:43","task\_id":1},{"id":2,"FaceQueryImagePath":"2","Threshold":2.0,"OccurTime":"2018/3/9 12:01:29","task\_id":1}]}

num：抓拍总数（没有分页限制的总数）

pageData：抓拍的分页数据

数据照片依次排列

FaceQueryImagePath：抓拍人员照片

OccurTime：抓拍时间

### 名单报警

获取在任务ID为1的符合时间段的报警查询结果 POST <http://localhost:8080/v1/recording/1>

入参：

{"StartTime":"2017-11-10 09:42:02","EndTime":"2017-12-29 09:42:02","StartIndex":0,"PageSize":30}

StartTime：开始时间

EndTime：结束时间

StartIndex：分页起始地址

PageSize：分页大小

出参：

{"num":3,"pageData": {"id":3,"FaceQueryImagePath":"QueryFaces/b895079f-1269-4c0d-944c-babaf7f15799.jpg","Threshold":0.2,"OccurTime":"2017/12/27 19:35:35","detail\_id":1,"rank":0,"score":0.9999,"user\_id":1,"user\_name":"pkj","user\_gander":"M","user\_person\_dataset\_id":1,"user\_card\_id":"321342","user\_image\_id":"","user\_face\_image\_path":"RegFaces/3235a4f7-552f-4910-b7a3-43cebbc9e7a2.jpg","user\_type":"2","user\_create\_time":"2017/12/27 18:38:23","user\_modified\_time":"2017/12/27 18:38:23","user\_quality\_score":84.0}]}

num：报警总数（没有分页限制的总数）

pageData：抓拍的分页数据

数据一条一行

FaceQueryImagePath：抓拍人员照片

OccurTime：抓拍时间

user\_face\_image\_path：匹配人员照片

user\_name：匹配人员姓名

user\_gander：匹配人员性别

user\_card\_id：匹配人员身份证

score：匹配分数

## 任务布控

### 任务列表

获得所有布控任务 GET <http://localhost:8080/v1/surveillance-task>

[{"ID":2,"Name":"task111","DatasetID":1,"DatasetName":"No4","DeviceID":4,"DeviceName":null,"Type":"3","Type\_Name":"密控（仅自己接受报警）","Remark":"task111","StartTime":"2017/3/8 0:00:00","EndTime":"2018/3/8 11:50:00"}]

ID：id号

Name：名称

DatasetName：底库名称

DeviceName：设备名称

Type\_Name：类型

Remark备注

StartTime：起始时间

EndTime：结束时间

获得ID为1的布控任务 GET <http://localhost:8080/v1/surveillance-task/>1

{"ID":1,"Name":"task1","DatasetID":1,"DeviceID":1,"Type":"2","Remark":"","StartTime":"2017/10/23 12:19:28","EndTime":"2017/10/24 12:19:28"}

同上

读取所有的数据库分页信息 POST <http://localhost:8080/v1/surveillance-task/>0/list

入参：

{"StartIndex":0,"PageSize":2}

出参：

[{"ID":1,"Name":"a","DatasetID":1,"DeviceID":1,"Type":"1","Remark":"","StartTime":"2018/3/29 13:36:15","EndTime":"2018/3/31 13:36:17"},{"ID":2,"Name":"b","DatasetID":2,"DeviceID":2,"Type":"2","Remark":"","StartTime":"2018/3/20 13:36:35","EndTime":"2018/3/30 13:36:40"}]

增加布控任务 POST <http://localhost:8080/v1/surveillance-task>

接受同上json数据，ID 无效

返回”True” or”False”

更新ID为1的布控任务POST <http://localhost:8080/v1/surveillance-task/1/update>

接受同上json数据， ID 无效

返回”True” or”False”

删除ID为1的布控任务 POST <http://localhost:8080/v1/surveillance-task/1/delete>

返回”True” or”False”

## 轨迹分析

### 人脸轨迹

**1、手动输入UserId**

获取符合时间段的轨迹 POST [http://localhost:8080/v1/recording](http://localhost:8080/v1/recording/1)

入参：

{"StartTime":"2017-11-10 09:42:02","EndTime":"2017-12-29 09:42:02","StartIndex":0,"PageSize":30,"UserId":6}

UserId：person数据库用户id（手工输入）

**2、根据图片**

根据图片获取符合时间段的轨迹 POST [http://localhost:8080/v1/recordingbyimg](http://localhost:8080/v1/recording/1)

入参：

{"StartTime":"2017-11-10 09:42:02","EndTime":"2017-12-29 09:42:02","StartIndex":0,"PageSize":30, "PicSrc":””}

或

Base64加密

出参：

{"num":24,"pageData": [[{"id":4,"FaceQueryImagePath":"QueryFaces/0c5a9f6c-bd9d-437e-a8a9-9670343ab8c1.jpg","Threshold":0.6,"OccurTime":"2017/12/28 13:09:01","task\_id":2,"detail\_id":2,"rank":0,"score":0.723111,"user\_id":6,"user\_name":"njust14","user\_gander":"","user\_person\_dataset\_id":2,"user\_card\_id":"","user\_image\_id":"njust14","user\_face\_image\_path":"RegFaces/049af2a5-001b-477c-bc17-8b50bf5f740c.jpg","user\_type":"","user\_create\_time":"2018/1/10 16:41:52","user\_modified\_time":"2018/1/10 16:41:52","user\_quality\_score":84.0,"device\_id":2},

{"id":5,"FaceQueryImagePath":"QueryFaces/da48c06f-3bc6-4675-88de-44e0084b30db.jpg","Threshold":0.6,"OccurTime":"2017/12/28 13:09:02","task\_id":2,"detail\_id":5,"rank":1,"score":0.682716,"user\_id":6,"user\_name":"njust14","user\_gander":"","user\_person\_dataset\_id":2,"user\_card\_id":"","user\_image\_id":"njust14","user\_face\_image\_path":"RegFaces/049af2a5-001b-477c-bc17-8b50bf5f740c.jpg","user\_type":"","user\_create\_time":"2018/1/10 16:41:52","user\_modified\_time":"2018/1/10 16:41:52","user\_quality\_score":84.0,"device\_id":2}]}

num：轨迹总数（没有分页限制的总数）

pageData：抓拍的分页数据

FaceQueryImagePath：抓拍人员照片

device\_id：抓拍位置

OccurTime：抓拍时间

task\_id：任务id号

user\_id：底库匹配人员id

user\_face\_image\_path：底库匹配人员照片

user\_name：底库匹配人员姓名

user\_gander：底库匹配人员性别

user\_card\_id：底库匹配人员身份证

score：匹配相似度

## 资源管理

### 人像库管理

读取所有的数据库信息GET http://localhost:8080/v1/person-dataset

[{"ID":0,"Name":"frsdb","Source":"","CreateTime":"2017/10/29 20:00:00","Type":"","Remark":""},{"ID":0,"Name":"yz","Source":"","CreateTime":null,"Type":"","Remark":""}]

全部显示

ID：人像库ID号

Name：人像库名称

Source：人像库来源

CreateTime：人像库创建时间

Type：人像库类型

Remark：备注

读取ID为1的人员库信息 GET  [http://localhost:8080/v1/person-dataset/1](http://localhost:8080/v1/person-database/1%20)

{"ID":0,"Name":"frsdb","Source":"","CreateTime":"2017/10/29 20:00:00","Type":"","Remark":""}

读取所有的数据库分页信息POST http://localhost:8080/v1/person-dataset/0/list

入参：

{"StartIndex":0,"PageSize":2}

出参：

[{"ID":0,"Name":"frsdb","Source":"","CreateTime":"2017/10/29 20:00:00","Type":"","Remark":""},{"ID":0,"Name":"yz","Source":"","CreateTime":null,"Type":"","Remark":""}]

增加人员数据库， POST http://localhost:8080/v1/person-dataset

接受同上json数据，ID无用

{"ID":0,"Name":"frsdb","Source":"","CreateTime":"2017/10/29 20:00:00","Type":"","Remark":""}

更新ID为1的人员数据库， POST http://localhost:8080/v1/person-dataset/1/update

接受同上json数据，ID无用

删除ID为1的人员数据库 POST <http://localhost:8080/v1/person-dataset/1/delete>

返回”True” or”False”

为ID为1的数据库添加人员， POST http://localhost:8080/v1/person/1/update

入参：

{"Path": "D:/Image/"}

返回”True” or”False”

查询ID为1的数据库人员照片总数， POST http://localhost:8080/v1/person/1/view

返回人员总数10

查询ID为1的数据库人员照片， POST http://localhost:8080/v1/person/1/view

入参：

{"StartIndex":0,"PageSize":30}

出参： [{"id":16,"person\_dataset\_id":1,"name":"DengChao","gender":"","card\_id":"","image\_id":"DengChao","face\_image\_path":"RegFaces/388dbdc1-f54c-4ad4-a84e-dc55ae4142f0.jpg"},{"id":17,"person\_dataset\_id":1,"name":"FanBingBing","gender":"","card\_id":"","image\_id":"FanBingBing","face\_image\_path":"RegFaces/e5935afe-5683-42a7-afd2-65cb9ccbc96b.jpg"}]

face\_image\_path：人员照片

name：姓名

gender：性别

card\_id：身份证

在ID为1的人员数据库中添加一个人员，

POST http://localhost:8080/v1/person/1/add

入参：

{"PicSrc": "XXXXXXX","name": "lzc","gender": "m","CardId ": "123445"}

注：入参base64加密

返回”True” or”False”

删除ID为1的人员POST <http://localhost:8080/v1/person/1/delete>

返回”True” or”False”

### 摄像头管理

获取所有设备 GET <http://localhost:8080/v1/device>

[{"ID":2,"Name":"No3","Video\_Address":"rtsp://admin:1106840228lzg@192.168.1.65::554","DepartmentID":"2","Longitude":109.0,"Latitude":111.2,"LocationType":"2","LocationType\_Name":"公交站","Type":"test","Remark":"12312"}]

全部显示

ID：人像库ID号

Name：人像库名称

Video\_Address：摄像头地址

DepartmentID：管理部门编号

Longitude：经度

Latitude：纬度

LocationType：位置类型

LocationType\_Name：位置类型级联

Type：摄像机类型

Remark：备注

读取ID为1的设备数据 GET http://localhost:8080/v1/device/1

{"ID":1,"Name":"No3","Video\_Address":"rtsp://admin:1106840228lzg@192.168.1.65::554","DepartmentID":"2","Longitude":109.0,"Latitude":111.2,"LocationType":"2","LocationType\_Name":"公交站","Type":"test","Remark":"12312"}

获取所有分页设备 POST <http://localhost:8080/v1/device>/0/list

入参：

{"StartIndex":0,"PageSize":2}

出参：

[{"ID":2,"Name":"No3","Video\_Address":"rtsp://admin:1106840228lzg@192.168.1.65::554","DepartmentID":"2","Longitude":109.0,"Latitude":111.2,"LocationType":"2","LocationType\_Name":"公交站","Type":"test","Remark":"12312"}]

增加设备 POST <http://localhost:8080/v1/device>

接受同上json数据，ID 无用

{"ID":1,"Name":"No2","Video\_Address":"rtsp://192.168.1.66::554","DepartmentID":"1","Longitude":111.20,"Latitude":111.20,"LocationType":"1","Type":"","Remark":""}

返回”True” or”False”

更新ID为1的设备数据 POST <http://localhost:8080/v1/device/1/update>

接受同上json数据，ID 无用

返回”True” or”False”

删除ID为1的设备数据 POST <http://localhost:8080/v1/device/1/delete>

返回”True” or”False”

## 字典表

### 摄像头地点

获取所有摄像头地点 GET <http://localhost:8080/v1/device>-placetype

### 布控任务类型

获取所有布控任务类型 GET http://localhost:8080/v1/surveillance-task-type