

User manual of upload record

---30 cameras upload

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A.Installation environment

Software installation based on 64bit windows operate system

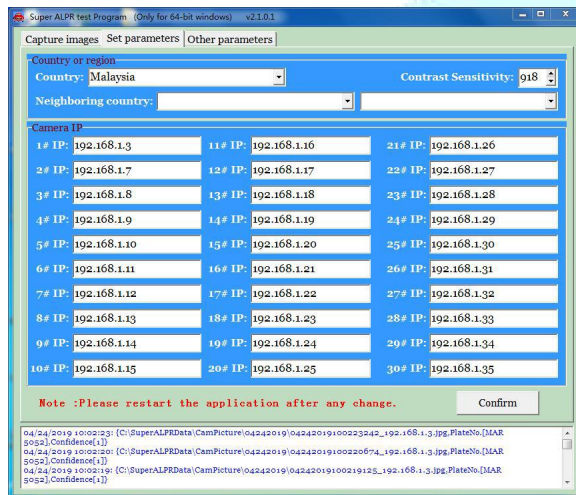
Configuration due to the cameras connected

Adopt MySQL for saving data,need install MySQL database in PC.

B.Software usagel

a.Parameter setting

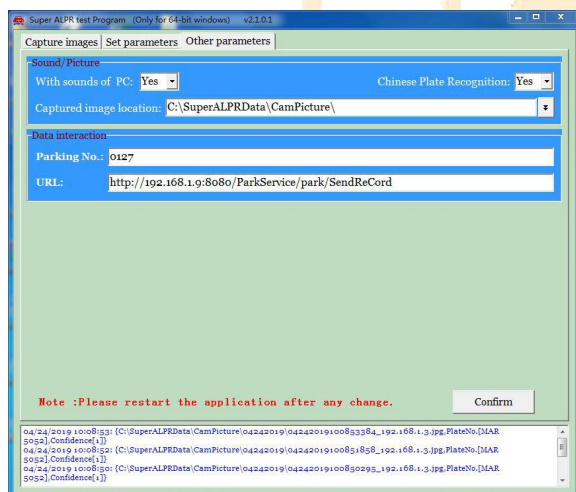
Select the corresponding country,click confirm to next



b.Other parameters

Parking No.,for distinguish different parking lot.Each parking lot have its fixed number,unique value

URL upload adress,fixed format to upload



C.Upload

a.Parameter format

Unified json data format

Parameter No.	Description	Type	Remark
parkingNo	parking lot No.	String	parking No.,for distinguish different parking lot
iPCam	camera IP	String	each camera have its IP address,but no distinction Of entry or exit
vehicleNo	vehicle NO.	String	recognized vehicle No.
confidence	reliability	String	vehicle recongition reliability,max 1,min 0
passDateTime	pass time	String	time of vehicle pass
pictureName	image name	String	local image saved name
picturePath	image address	String	saved path of local image
picture	picture coding	String	Picture Base64 encoding
remark	remark	String	1:uploaded, 0:upload failed

```

1- {
2   "parkingNo": "1234",
3   "iPCam": "192.168.1.99",
4   "vehicleNo": "E104CE38",
5   "confidence": "1",
6   "passDateTime": "05/30/2019 15:09:03",
7   "pictureName": "0530201915090354_192.168.1.99.jpg",
8   "picturePath": "C:\\SuperALPRData\\CamPicture\\05302019",
9   "picture": "/9j/4AAQSkZJRgABAQAAQABAAQ/2wBDAAUDBAQEAwUEBAQFBUQBgwwIBwcHBw8LCwkMEQ8SEhEP&ERETfhwXExQaFRERCEYGH0dHx8fExcjCie",
10  "remark": "0"
11 }
    
```

b.Upload way

Unified post way to upload

D.Receive

As the below picture,success will back to 0,failed back to 1,if upload failed this time,it would reuploa,till success.

```

/*
 * https://ip:port/title/test
 */
@ResponseBody
@RequestMapping(value = "/test", method = RequestMethod.POST, produces = "application/json;charset=UTF-8")
public String getByRequest(HttpServletRequest request) {
    String result=null;
    if(request!=null){
        JSONObject json = this.getJSONParam(request);
        String address="E:\\各国车牌\\迪拜\\45.jpg";//图片存储路径(Image storage path)
        boolean re=Base64Image.GenerateImage(json.getString("picture"), address);
        if(re==true){//正确为本地存储成功(true--Successful for local storage)
            //业务逻辑(Business logic)
            result="1";
        }else{
            result="0";
        }
    }else{
        result="0";
    }
    return result;
}
    
```

Method of converting data to json

```

/*
 * 将传递的数据转化成json(Convert the transferred data to json)
 */
public JSONObject getJSONParam(HttpServletRequest request){
    JSONObject jsonParam = null;
    try {
        // 获取输入流(Get the input stream)
        BufferedReader streamReader = new BufferedReader(new InputStreamReader(request.getInputStream(), "UTF-8"));

        //写入数据到Stringbuilder(Write data to StringBuilder)
        StringBuilder sb = new StringBuilder();
        String line = null;
        while ((line = streamReader.readLine()) != null) {
            sb.append(line);
        }
        jsonParam = JSONObject.fromObject(sb.toString());
        // 直接将json信息打印出来(Print json information directly)
        //System.out.println(jsonParam.toString());
    } catch (Exception e) {
        e.printStackTrace();
    }
    return jsonParam;
}
    
```

Decode the transmitted picture

```

/*
 * 对字节数组字符串进行Base64解码并生成图片
 * Base64 decoding of byte array strings and generating images
 */
@SuppressWarnings("restriction")
public static boolean GenerateImage(String imgStr, String imgFilePath) {
    imgStr=imgStr.replaceAll("&", ""); //需要把&替换(Need to replace & replace)
    if (imgStr == null){
        // 图像数据为空(Image data is empty)
        return false;
    }else{
        BASE64Decoder decoder = new BASE64Decoder();
        try {
            // Base64解码(Base64 decoding)
            byte[] bytes = decoder.decodeBuffer(imgStr);
            for (int i = 0; i < bytes.length; ++i) {
                if (bytes[i] < 0) { // 调整异常数据(Adjust abnormal data)
                    bytes[i] += 256;
                }
            }
            // 生成图片(Generate image)
            OutputStream out = new FileOutputStream(imgFilePath);
            out.write(bytes);
            out.flush();
            out.close();
            return true;
        } catch (Exception e) {
            return false;
        }
    }
}
    
```

E.Presentation



Upload.mp4

