

悦保科技

视觉 AI 识别产品使用手册

（门诊住院发票识别）

一、接口名字： 门诊住院发票识别

二、请求地址： https://medical.apistore.huaweicloud.com/api/ocr/medical

三、请求方法： POST

四、请求体格式： multipart/form-data

五、请求参数：

1.Query

| 是否<br>必选        | 参数名       | 类型     | 参数说明                                                                                              |
|-----------------|-----------|--------|---------------------------------------------------------------------------------------------------|
| 必选<br>(三<br>选一) | file      | file   | 图片文件需要使用post multipart/form-data的方式上传                                                             |
|                 | imgUrl    | string | 图片的URL地址； 优先使用该参数                                                                                 |
|                 | imgBase64 | string | 图片base64编码(包含data:image/png;base64,); 如果同时传入file、imgUrl、imgBase64参数，本API使用顺序为imgUrl优先，imgBase64最低 |

六、返回值说明：

1、返回结果

| 参数名      | 参数类型   | 参数描述                       |
|----------|--------|----------------------------|
| status   | int    | 200：成功 其他：业务异常             |
| data     | 对象     | 执行成功时data有对象值，执行异常时不返回data |
| serialNo | string | 日志ID                       |
| message  | string | 提示信息                       |
| code     | int    | 业务码参考资源表                   |
| reqId    | string | 请求ID，标识唯一请求; 回写业务使用        |

## 2、data

| 参数名      | 参数类型   | 参数描述   |
|----------|--------|--------|
| insured  | 对象     | 顶层对象   |
| textType | string | 医疗票据类型 |

## 3、insured（全局信息）

| 参数名                     | 参数类型       | 参数描述               |
|-------------------------|------------|--------------------|
| receipt_count           | int        | 收据数                |
| not_receipt_count       | int        | 完全识别收据数            |
| receipt_outpatient      | receipts对象 | 门诊收据               |
| receipt_hospitalization | receipts对象 | 住院收据               |
| recognise               | string     | 整张未能识别（识别传Y，未识别传N） |

## 4 receipts（收据信息）

| 参数名            | 参数类型         | 参数描述             |
|----------------|--------------|------------------|
| image_name     | attributes对象 | 影像名称             |
| zone           | attributes对象 | 地区               |
| bill_type      | attributes对象 | 账单类型，1门诊，2住院，3门特 |
| hospital_name  | attributes对象 | 医院名称             |
| receipt_no     | attributes对象 | 收据号              |
| treatment_days | attributes对象 | 住院天数（仅住院收据时存在）   |
| starttime      | attributes对象 | 开始日期（仅住院收据时存在）   |
| endtime        | attributes对象 | 结束日期（仅住院收据时存在）   |
| name           | attributes对象 | 姓名               |
| sex            | attributes对象 | 性别               |
| medicare_type  | attributes对象 | 医保类型             |
| social_no      | attributes对象 | 社会保障号码           |

| 参数名           | 参数类型         | 参数描述          |
|---------------|--------------|---------------|
| visit_date    | attributes对象 | 就诊日期          |
| medicare_pay  | attributes对象 | 医保支付/基金支付     |
| addition_pay  | attributes对象 | 附加支付          |
| third_pay     | attributes对象 | 第三方支付         |
| self_pay_one  | attributes对象 | 自付一           |
| self_pay_two  | attributes对象 | 自付二/分类自付/自付   |
| self_cost     | attributes对象 | 自费            |
| total_amount  | attributes对象 | 合计            |
| others        | 对象           | 其他信息（区分门诊/住院） |
| medicares     | 对象           | 医保支付（区分门诊/住院） |
| feedetails    | cost对象数组     | 费用项目明细        |
| feeitems      | cost对象数组     | 费用项目名称        |
| AccResults    | 对象数组         | 疾病代码(ICD10)   |
| global_detail | 对象           | 全局信息          |

#### 4.1 attributes（属性信息对象）

| 参数名       | 参数类型   | 参数描述               |
|-----------|--------|--------------------|
| raw       | string | 原始值                |
| value     | string | 标准输出值              |
| score     | string | 评分值                |
| pos       | 数组     | 四个点的坐标值            |
| raw_field | string | 支付项名称(仅支付相关的会有此字段) |

#### 4.2 others（门诊收据其他信息）

| 参数名                  | 参数类型         | 参数描述  |
|----------------------|--------------|-------|
| business_transaction | attributes对象 | 业务流水号 |

| 参数名                      | 参数类型         | 参数描述   |
|--------------------------|--------------|--------|
| medical_institution_type | attributes对象 | 医疗机构类型 |
| self_acount_amount       | attributes对象 | 个人账户支付 |
| self_cash_amount         | attributes对象 | 个人支付金额 |
| receivables_institution  | attributes对象 | 收款单位   |
| payee                    | attributes对象 | 收款人    |
| treatment_date           | attributes对象 | 收款日期   |
| other_medicare_amount    | attributes对象 | 其他医保支付 |

### 4.3 others（住院收据其他信息）

| 参数名                      | 参数类型         | 参数描述   |
|--------------------------|--------------|--------|
| business_transaction     | attributes对象 | 业务流水号  |
| medical_institution_type | attributes对象 | 医疗机构类型 |
| medical_record_no        | attributes对象 | 病历号    |
| hospitalization          | attributes对象 | 住院号    |
| prepay                   | attributes对象 | 预缴金额   |
| secondpay                | attributes对象 | 补缴金额   |
| refund                   | attributes对象 | 退费金额   |
| self_acount_amount       | attributes对象 | 个人账户支付 |
| other_medicare_amount    | attributes对象 | 其他医保支付 |
| self_cash_amount         | attributes对象 | 个人支付金额 |
| receivables_institution  | attributes对象 | 收款单位   |
| payee                    | attributes对象 | 收款人    |
| treatment_date           | attributes对象 | 收款日期   |

### 4.4 medicares（医保支付-门诊）

| 参数名 | 参数类型 | 参数描述 |
|-----|------|------|
|-----|------|------|

| 参数名                                 | 参数类型         | 参数描述                             |
|-------------------------------------|--------------|----------------------------------|
| outpatient_larger_payment           | attributes对象 | 门诊大额支付/大额互助资金（门诊）支付/大额互助资金（门诊）支付 |
| super_large_cap_payment             | attributes对象 | 超大额封顶金额/超封顶金额                    |
| deductible                          | attributes对象 | 起付金额/实付起付标准金额/起付线/起付线标准          |
| outpatient_large_cumulative_payment | attributes对象 | 门诊大额累计支付/年度门诊大额累计支付              |
| in_medicare_pay                     | attributes对象 | 本次医保范围内金额                        |
| retirement_supplement_pay           | attributes对象 | 退休补充支付                           |
| sum_in_medicare_pay                 | attributes对象 | 累计医保内范围金额                        |
| remnant_subsidy_pay                 | attributes对象 | 残军补助支付                           |
| unit_supplemental_insurance_pay     | attributes对象 | 单位补充险[原公疗]支付                     |
| selft_account_pay                   | attributes对象 | 个人账户余额/当年帐户余额                    |

#### 4.4.5 medicares（医保支付-住院）

| 参数名                                   | 参数类型         | 参数描述                    |
|---------------------------------------|--------------|-------------------------|
| inpatient_planning_payment            | attributes对象 | 住院/门特统筹/统筹基金支付/基金支付     |
| super_large_cap_payment               | attributes对象 | 超大额封顶金额/超封顶金额           |
| deductible                            | attributes对象 | 起付金额/实付起付标准金额/起付线/起付线标准 |
| inpatient_planning_cumulative_payment | attributes对象 | 住院统筹累计支付/本年度统筹基金累计支付    |
| retirement_supplement_pay             | attributes对象 | 退休补充支付                  |
| remnant_subsidy_pay                   | attributes对象 | 残军补助支付                  |

| 参数名                                        | 参数类型         | 参数描述                                    |
|--------------------------------------------|--------------|-----------------------------------------|
| unit_supplemental_insurance_pay            | attributes对象 | 单位补充险[原公疗]支付                            |
| year_inpatient_planning_payment            | attributes对象 | 本年度统筹基金累计支付/本年度住院统筹基金累计支付/本年度门特统筹基金累计支付 |
| year_inpatient_planning_cumulative_payment | attributes对象 | 本年度大额互助资金[住院]累计支付/本年度住院统筹累计支付           |
| selft_account_pay                          | attributes对象 | 个人账户余额//当年帐户余额                          |

#### 4.5 cost（费用信息）

| 参数名             | 参数类型         | 参数描述                    |
|-----------------|--------------|-------------------------|
| item_name       | attributes对象 | 项目名称                    |
| specifications  | attributes对象 | 规格                      |
| unit_price      | attributes对象 | 单价                      |
| number          | attributes对象 | 数量                      |
| unit            | attributes对象 | 单位                      |
| total_amount    | attributes对象 | 金额                      |
| self_amount     | attributes对象 | 门诊票据（个人支付金额）、住院票据（自费金额） |
| ratio           | attributes对象 | 比例                      |
| selfload_amount | attributes对象 | 自付二金额（住院票据时存在）          |
| medical_in      | attributes对象 | 医保内（住院票据时存在）            |
| madical_out     | attributes对象 | 医保外（住院票据时存在）            |

#### 4.6 AccResults（疾病代码信息）

| 参数名           | 参数类型         | 参数描述    |
|---------------|--------------|---------|
| AccResultCode | attributes对象 | ICD10代码 |
| AccResultName | attributes对象 | ICD名称   |

#### 4.5 global\_detail（全局信息）

| 参数名              | 参数类型         | 参数描述                                   |
|------------------|--------------|----------------------------------------|
| amount_in_words  | attributes对象 | 大写/合计大写/金额合计（大写）                       |
| date             | attributes对象 | 日期                                     |
| invoice_code     | attributes对象 | 票据代码/电子票据代码                            |
| invoice_num      | attributes对象 | 机打票号/电子票据号码                            |
| payer            | attributes对象 | 交款人                                    |
| invoice_date     | attributes对象 | 开票日期                                   |
| insurance_num    | attributes对象 | 医保编号                                   |
| insurance_seq_no | attributes对象 | 医保交易流水号/交易流水号                          |
| social_credit_no | attributes对象 | 统一社会信用代码/社会信用代码/交款人统一社会信用代码            |
| settle_status    | attributes对象 | 结算状态                                   |
| pay_list         | 数组           | 其余支付项数组；类型为数组，其中对象采用{name,word}形式自解释输出 |
| region_specific  | 数组           | 票据特有字段；类型为数组，其中对象采用{name,word}形式自解释输出  |

#### 七、返回示例：

##### 成功请求返回值示例

```
{
  "code": 0,
  "reqId": "8cb4d00e-008d-11ec-a4ae-2cf05d25f2ca",
  "status": 200,
  "message": "success",
  "serialNo": "391656486431883264",
  "data": {
    "insured": {
      "not_receipt_count": 0,
      "receipt_hospitalization": "",
      "receipt_outpatient": {
        "receipts": [
```



```

{
  "AccResults": [],
  "medicare_pay": {
    "score": 1.0,
    "pos": [],
    "raw_field": "医保统筹基金支付",
    "value": "0.00"
  },
  "receipt_no": {
    "score": 1.0,
    "pos": [],
    "value": "61912218572"
  },
  "medicare_type": {
    "score": 1.0,
    "pos": [],
    "raw": "城镇职工",
    "value": "城镇职工"
  },
  "sex": {
    "score": 1.0,
    "pos": [],
    "raw": "男",
    "value": "男"
  },
  "addition_pay": "",
  "social_no": "",
  "self_cost": {
    "score": 1.0,
    "pos": [],
    "raw_field": "个人自费",
    "value": "14.70"
  },
  "feedetails": [
    {
      "number": "",
      "unit": "",
      "total_amount": "",
      "item_name": {
        "score": 1.0,
        "pos": [],
        "value": "胶质止血明胶海"
      },
      "unit_price": "",
      "specifications": ""
    }
  ]
}

```

```

        "self_amount": "",
        "ratio": ""
    },
    {
        "number": {
            "score": 1.0,
            "pos": [],
            "raw": "1/块",
            "value": "1"
        },
        "unit": "",
        "total_amount": {
            "score": 1.0,
            "pos": [],
            "value": "14.7000"
        },
        "item_name": {
            "score": 0.996119300319711,
            "pos": [],
            "raw": "(瑞/",
            "value": "(瑞"
        },
        "unit_price": "",
        "specifications": "",
        "self_amount": "",
        "ratio": ""
    },
    {
        "number": {
            "score": 1.0,
            "pos": [],
            "raw": "1/人次",
            "value": "1"
        },
        "unit": "",
        "total_amount": {
            "score": 1.0,
            "pos": [],
            "value": "4.0000"
        },
        "item_name": {
            "score": 1.0,
            "pos": [],
            "raw": "牙科综合治疗台/",
            "value": "牙科综合治疗台"
        }
    }

```

```

    },
    "unit_price": "",
    "specifications": "",
    "self_amount": "",
    "ratio": ""
  },
  {
    "number": {
      "score": 1.0,
      "pos": [],
      "raw": "1/每牙",
      "value": "1"
    },
    "unit": "",
    "total_amount": {
      "score": 1.0,
      "pos": [],
      "value": "510.0000"
    },
    "item_name": {
      "score": 1.0,
      "pos": [],
      "raw": "微创复杂牙拔除术/",
      "value": "微创复杂牙拔除术"
    },
    "unit_price": "",
    "specifications": "",
    "self_amount": "",
    "ratio": ""
  },
  {
    "number": {
      "score": 1.0,
      "pos": [],
      "raw": "1/2 小",
      "value": "1"
    },
    "unit": "",
    "total_amount": {
      "score": 1.0,
      "pos": [],
      "value": "127.0000"
    },
    "item_name": {
      "score": 1.0,

```

```

        "pos": [],
        "raw": "上颌神经阻滞麻醉/",
        "value": "上颌神经阻滞麻醉"
    },
    "unit_price": "",
    "specifications": "",
    "self_amount": "",
    "ratio": ""
},
{
    "number": {
        "score": 1.0,
        "pos": [],
        "raw": "1/包",
        "value": "1"
    },
    "unit": "",
    "total_amount": {
        "score": 1.0,
        "pos": [],
        "value": "3.2900"
    },
    "item_name": {
        "score": 1.0,
        "pos": [],
        "raw": "一次性口腔器械盒/",
        "value": "一次性口腔器械盒"
    },
    "unit_price": "",
    "specifications": "",
    "self_amount": "",
    "ratio": ""
},
{
    "number": {
        "score": 1.0,
        "pos": [],
        "raw": "1/支",
        "value": "1"
    },
    "unit": "",
    "total_amount": {
        "score": 1.0,
        "pos": [],
        "value": "7.0000"
    }
}

```

```

    },
    "item_name": {
      "score": 1.0,
      "pos": [],
      "raw": "丙睿卡国肾上腺素/1.7ml",
      "value": "丙睿卡国肾上腺素"
    },
    "unit_price": "",
    "specifications": {
      "score": null,
      "pos": null,
      "raw": "",
      "value": "1.7ml"
    },
    "self_amount": "",
    "ratio": ""
  }
],
"self_pay_two": {
  "score": 1.0,
  "pos": [],
  "raw_field": "自付二",
  "value": "40.80"
},
"image_name": "",
"third_pay": "",
"self_pay_one": {
  "score": 1.0,
  "pos": [],
  "raw_field": "自付一",
  "value": "610.49"
},
"medicares": {
  "outpatient_larger_payment": {
    "score": 1.0,
    "pos": [],
    "raw_field": "门诊大额支付",
    "value": "0.00"
  },
  "deductible": {
    "score": 1.0,
    "pos": [],
    "raw_field": "起付金额",
    "value": "610.49"
  }
},

```

```

        "outpatient_large_cumulative_payment": {
            "score": 1.0,
            "pos": [],
            "raw_field": "年度门诊大额支付",
            "value": "0.00"
        },
        "super_large_cap_payment": {
            "score": 1.0,
            "pos": [],
            "raw_field": "超封顶金额",
            "value": "0.00"
        }
    },
    "zone": "",
    "total_amount": {
        "score": 1.0,
        "pos": [],
        "raw": "665.99",
        "value": "665.99"
    },
    "name": "",
    "bill_type": {
        "score": "1.0",
        "pos": [],
        "value": "1"
    },
    "global_detail": {
        "pay_list": [
            {
                "name": "其他支付",
                "word": {
                    "score": 1.0,
                    "raw_field": "其他支付",
                    "value": "0.00"
                }
            },
            {
                "name": "个人自付",
                "word": {
                    "score": 1.0,
                    "raw_field": "个人自付",
                    "value": "651.29"
                }
            }
        ],
        {

```

```

        "name": "医保范围内",
        "word": {
            "score": 1.0,
            "raw_field": "医保范围内",
            "value": "610.49"
        }
    },
    {
        "name": "退休补充支付",
        "word": {
            "score": 1.0,
            "raw_field": "退休补充支付",
            "value": "0.00"
        }
    },
    {
        "name": "年度医保范围内",
        "word": {
            "score": 1.0,
            "raw_field": "年度医保范围内",
            "value": "957.20"
        }
    },
    {
        "name": "个人账户余额",
        "word": {
            "score": 1.0,
            "raw_field": "个人账户余额",
            "value": "0.00"
        }
    },
    {
        "name": "残军补助支付",
        "word": {
            "score": 1.0,
            "raw_field": "残军补助支付",
            "value": "0.00"
        }
    },
    {
        "name": "单位补充险支付",
        "word": {
            "score": 1.0,
            "raw_field": "单位补充险支付",
            "value": "0.00"
        }
    }

```

```

    }
  }
],
"insurance_num": {
  "score": 1.0,
  "pos": [],
  "value": "126476829005"
},
"insurance_seq_no": {
  "score": 1.0,
  "pos": [],
  "value": "081550070A210304000067"
},
"social_credit_no": {
  "score": 1.0,
  "pos": [],
  "value": "370285*****5312"
},
"settle_status": {
  "score": 1.0,
  "pos": [],
  "value": "医保已实时结算"
},
"region_specific": [
  {
    "name": "发票类型",
    "word": {
      "score": 1.0,
      "pos": [],
      "value": "中央医疗门诊收费票据"
    }
  },
  {
    "name": "门诊号",
    "word": {
      "score": 1.0,
      "pos": [],
      "value": "99202542"
    }
  }
],
"amount_in_words": {
  "score": 1.0,
  "pos": [],
  "value": "陆佰陆拾伍元玖角玖分"
}

```



```

    },
    "invoice_date": {
      "score": 1.0,
      "pos": [],
      "value": "2021-03-04"
    }
  },
  "visit_date": {
    "score": 1.0,
    "pos": [],
    "value": "2021-03-04"
  },
  "others": {
    "payee": "",
    "receivables_institution": "",
    "self_cash_amount": {
      "score": 1.0,
      "pos": [],
      "raw_field": "个人现金支付",
      "value": "665.99"
    },
    "treatment_date": "",
    "self_acount_amount": {
      "score": 1.0,
      "pos": [],
      "raw_field": "个人账户支付",
      "value": "0.00"
    },
    "medical_institution_type": {
      "score": 1.0,
      "pos": [],
      "raw": "专业医院",
      "value": "专业医院"
    },
    "business_transaction": {
      "score": 1.0,
      "pos": [],
      "value": "40077709721030400107D"
    }
  },
  "feeitems": [
    {
      "number": "",
      "unit": "",
      "total_amount": {

```

```

        "score": 1.0,
        "pos": [],
        "value": "18.70"
    },
    "item_name": {
        "score": 1.0,
        "pos": [],
        "value": "治疗费"
    },
    "unit_price": "",
    "specifications": "",
    "self_amount": "",
    "ratio": ""
},
{
    "number": "",
    "unit": "",
    "total_amount": {
        "score": 1.0,
        "pos": [],
        "value": "637.00"
    },
    "item_name": {
        "score": 1.0,
        "pos": [],
        "value": "手术费"
    },
    "unit_price": "",
    "specifications": "",
    "self_amount": "",
    "ratio": ""
},
{
    "number": "",
    "unit": "",
    "total_amount": {
        "score": 1.0,
        "pos": [],
        "value": "3.29"
    },
    "item_name": {
        "score": 1.0,
        "pos": [],
        "value": "卫生材料费"
    },
    "unit_price": "",
    "specifications": "",
    "self_amount": "",
    "ratio": ""
}

```

```

        "unit_price": "",
        "specifications": "",
        "self_amount": "",
        "ratio": ""
    },
    {
        "number": "",
        "unit": "",
        "total_amount": {
            "score": 1.0,
            "pos": [],
            "value": "7.00"
        },
        "item_name": {
            "score": 1.0,
            "pos": [],
            "value": "西药费"
        },
        "unit_price": "",
        "specifications": "",
        "self_amount": "",
        "ratio": ""
    }
],
    "hospital_name": ""
}
]
},
    "receipt_count": 1
},
    "textType": "全国统一门诊"
}
}

```

#### 失败请求返回值示例

```

{
    "serialNo": "343839777521696229",
    "message": "检测文字失败，请确认上传的文件是否合法",
    "status": 400,
    "code": 3000
}

```

## 八、通用的ERROR\_MESSAGE

| HTTP 状态代码 | 错误信息                 |
|-----------|----------------------|
| 400       | 业务异常，具体message提示。    |
| 401       | 身份验证失败（token过期或非法账号） |
| 402       | 未开通产品权限；或者产品次数不足     |
| 403       | 权限不足                 |
| 404       | 请求路径不存在              |
| 413       | 客户发送的请求大小超过了2MB限制。   |
| 500       | 系统内部异常               |
| 502       | 网关异常                 |

## 九、服务支持

若有疑问或更多产品需求（离线SDK、私有化部署等），可以通过技术文档、微信、热线电话等方式获得帮助，我们竭诚为您服务。

热线电话1：4006689588、0755-23188265

热线电话2：15820424580（微信同号） 何生

官方微信：悦保科技

官方网址：[www.ybinsure.com](http://www.ybinsure.com) 深圳市悦保科技有限公司

企业微信客服：



（悦保小助手）