

## 111 获取视频数据

第三步，实现获取视频数据的功能。

### 111.1 实现功能

C:\Users\Minwei\Projects\Qt\Monitor\monitordialog.h:

```
1  ...
2  #include <QNetworkAccessManager>
3  #include <QNetworkReply>
4
5  #include "face.h"
6  ...
7  class MonitorDialog : public QDialog
8  {
9      ...
10     signals:
11         void recognize(QImage const& frame);
12         ...
13     private slots:
14         ...
15         void on_m_streamReply_readyRead();
16         ...
17     private:
18         ...
19         QNetworkAccessManager* m_access;
20         QNetworkReply* m_streamReply;
21         QByteArray m_streamData;
22         Face* m_face;
23         QThread* m_thread;
24         ...
25 };
26 ...
```

C:\Users\Minwei\Projects\Qt\Monitor\monitordialog.cpp:

```
1  ...
2  #include <QThread>
3  ...
4  MonitorDialog::MonitorDialog(QWidget *parent)
5      ...
6      , m_access(new QNetworkAccessManager(this))
7      , m_streamReply(Q_NULLPTR)
8      , m_face(new Face)
9      , m_thread(new QThread(this))
10     ...
11 {
12     ...
13     connect(this, SIGNAL(recognize(QImage const&)),
14             m_face, SLOT(recognize(QImage const&)));
15     m_face->moveToThread(m_thread);
16     m_thread->start();
17     ...
```

```


18 }
19
20 MonitorDialog::~MonitorDialog()
21 {
22     ...
23     m_thread->terminate();
24     m_thread->wait();
25     ...
26 }
27
28 void MonitorDialog::on_m_btnStream_clicked()
29 {
30     m_streamReply = m_access->get(QNetworkRequest(QUrl(
31         "http://192.168.0.111:8080?action=stream")));
32
33     connect(m_streamReply, SIGNAL(readyRead()),
34         this, SLOT(on_m_streamReply_readyRead()));
35 }
36 ...
37 void MonitorDialog::on_m_streamReply_readyRead()
38 {
39     m_streamData += m_streamReply->readAll();
40
41     int begin = m_streamData.indexOf("\xff\xd8", 0);
42     if (begin == -1)
43     {
44         m_streamData.clear();
45         return;
46     }
47     int end = m_streamData.indexOf("\xff\xd9", begin + 2);
48     if (end == -1)
49         return;
50
51     QImage frame;
52     if (!frame.loadFromData(m_streamData.mid(begin, end + 2), "JPG"))
53     {
54         m_streamData.clear();
55         return;
56     }
57
58     m_streamData.clear();
59     ui->m_labStream->setPixmap(QPixmap::fromImage(frame));
60     emit recognize(frame);
61 }
62 ...

```

## 111.2 测试验证

运行效果如图所示：

远程视频监控 ? ×



视频 快照