

112 获取快照数据

第四步，实现获取快照数据的功能。

112.1 实现功能

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

```
1  ...
2  #include <QLabel>
3  ...
4  class MonitorDialog : public QDialog
5  {
6      ...
7  private slots:
8      ...
9      void on_m_snapshotReply_readyRead();
10     ...
11 private:
12     ...
13     QNetworkReply* m_snapshotReply;
14     QByteArray m_snapshotData;
15     QLabel* m_labels[4];
16     int m_index;
17     ...
18 };
19 ...
```

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

```
1  ...
2  MonitorDialog::MonitorDialog(QWidget *parent)
3      ...
4      , m_snapshotReply(Q_NULLPTR)
5      , m_index(0)
6      ...
7  {
8      ...
9      m_labels[0] = ui->m_labSnapshot1;
10     m_labels[1] = ui->m_labSnapshot2;
11     m_labels[2] = ui->m_labSnapshot3;
12     m_labels[3] = ui->m_labSnapshot4;
13     ...
14 }
15 ...
16 void MonitorDialog::on_m_btnSnapshot_clicked()
17 {
18     m_snapshotReply = m_access->get(QNetworkRequest(QUrl(
19         "http://192.168.0.111:8080?action=snapshot")));
20
21     connect(m_snapshotReply, SIGNAL(readyRead()),
22         this, SLOT(on_m_snapshotReply_readyRead()));
23 }
24 ...
```

```

25 void MonitorDialog::on_m_snapshotReply_readyRead()
26 {
27     m_snapshotData += m_snapshotReply->readAll();
28
29     int begin = m_snapshotData.indexOf("\xff\xd8", 0);
30     if (begin == -1)
31     {
32         m_snapshotData.clear();
33         return;
34     }
35     int end = m_snapshotData.indexOf("\xff\xd9", begin + 2);
36     if (end == -1)
37         return;
38
39     QImage frame;
40     if (!frame.loadFromData(m_snapshotData.mid(begin, end + 2), "JPG"))
41     {
42         m_snapshotData.clear();
43         return;
44     }
45
46     m_snapshotData.clear();
47     m_labels[m_index]-
>setPixmap(QPixmap::fromImage(frame).scaledToHeight(236));
48     m_index = (m_index + 1) % 4;
49 }
50 ...

```

112.2 测试验证

运行效果如图所示：

