```
Glass SDK V0.1.2 使用说明
一、接口说明
com.rokid.glasssdk.GlassControl
   public class GlassControl
   该类是现实常用的 Glass 控制接口和 glass 硬件信息读取接口
   Constants:
       public static final int SHORT_PRESS;
       touch 短按事件
       public static final int LONG_PRESS;
       touchbar 长按事件
       public static final int FORWARD_SLIDE;
       touchbar 向前滑动
       public static final int BACKWARD_SLIDE;
       touchbar 向后滑动
   Public constructors:
        public GlassControl(Context context, UsbDevice dev)
   Public methods:
       public boolean SetBrightness(int value);
       设置眼镜亮度值 rang [0-100]
       public int GetBrightness();
       获取当前亮度
       public String GetSerialNumber();
       获取眼镜序列号
       public String GetPCBA();
       获取 PCBA 编码
       public String GetTypeID();
       获取设备 TypeID
       public boolean GetVsyncStatus();
       获取显示状态
```

public String GetOpticalID();

获取光机版本号

```
com.rokid.glasssdk.OnGlassEvent
public interface OnGlassEvent
该接口用于实现 glass 事件回调
Constants:
Public constructors:
Public methods:
    public void OnKeyPress(int keyCode, boolean press)
    按键事件 var1:键值 var2:按键状态
    public void OnTouchPress(int position)
    返回 touchbar 触控当前位置,bit0-bit7 分别表示 8 个触摸按键 0 表示无触摸事件
    public void OnTochEvent(int event, int value)
    返回触摸板触发事件 event 表示事件编号 value 表示滑动长度
    public void OnImuUpdate(long timeStamp, float Q[])
    返回 IMU 当前 RotationVectory
    timeStamp: 时间戳 (ms)
    Q: gameRotationVector
    public void OnLsensorUpdate(int lux)
    返回 light sensor 亮度值
    public void OnPsensorUpdate(boolean status)
    返回 PSensor 状态
```

## 二、示例代码

```
private final BroadcastReceiver usbReceiver = new BroadcastReceiver() {
        public void onReceive(Context context, Intent intent) {
           String action = intent.getAction();
           if (ACTION_USB_PERMISSION.equals(action)) {
               synchronized (this) {
                  UsbDevice device = (UsbDevice) intent.getParcelableExtra(UsbManager.EXTRA_DEVICE);
                  if (intent.getBooleanExtra(UsbManager.EXTRA_PERMISSION_GRANTED, false)) {
                      if (device != null) {
                         mTextInfo.setText("Connected!");
                         mGlassCtrl = new GlassControl(context, device);
                         mBrightness.setProgress(mGlassCtrl.GetBrightness());
                         mGlassEvent = new GlassEvent(context, device);
                         mGlassEvent.SetOnGlassEvent(mOnGlassEvent);
                          mHwInfo.setText("SN
                                                :" + mGlassCtrl.GetSerialNumber() + "\n" +
                            "TYPE ID:" + mGlassCtrl.GetTypeID() + "\n" +
                            "PCBA: " + mGlassCtrl.GetPCBA() + "\n" +
                            "OPTICAL: " + mGlassCtrl.GetOpticalID() + "\n"
                     }
                  } else {
                     Log.d(TAG, "permission denied for device " + device);
                  }
              }
           }
        }
     }:
private OnGlassEvent mOnGlassEvent = new OnGlassEvent(){
    /*四元数转欧拉角*/
   double[] ToEulerAngles(double x, double y, double z, double w) {
      double[] angles = new double[3];
      double sinr_cosp = 2 * (w * x + y * z);
      double cosr_cosp = 1 - 2 * (x * x + y * y);
      angles[0] = Math.atan2(sinr_cosp, cosr_cosp) / Math.PI * 360;
      double sinp = 2 * (w * y - z * x);
      if (Math.abs(sinp) >= 1)
         angles[1] = Math.copySign(Math.PI / 2, sinp) / Math.PI * 360; // use 90 degrees if out of range
         angles[1] = Math.asin(sinp) / 3.14 * 180;
      double siny_cosp = 2 * (w * z + x * y);
      double cosy_cosp = 1 - 2 * (y * y + z * z);
      angles[2] = Math.atan2(siny_cosp, cosy_cosp) /Math.PI * 360;
      return angles;
```

```
}
@Override
public void OnKeyPress(int keyCode, boolean press) {
   if(press)
      mTextInfo.setText("Key Press:" + keyCode);
   else
      mTextInfo.setText("Key Releass:"+ keyCode);
}
@Override
public void OnTouchPress(int position) {
   if(position!=0) {
      mTouch.setActivated(true);
      mTouch.setProgress(position);
      mTouch.setActivated(false);
}
@Override
public void OnTochEvent(int event, int value){
   if(event == TouchEvent.SHORT_PRESS)
      mTextInfo.setText("Touch Event: SHORT");
   else if(event == TouchEvent.LONG_PRESS)
      mTextInfo.setText("Touch Event: LONG");
   else if(event == TouchEvent.BACKWARD_SLIDE)
      mTextInfo.setText("Touch Event: BACKWARD len:" + value);
   else if(event == TouchEvent.FORWARD_SLIDE)
      mTextInfo.setText("Touch Event: FORWARD len:" + value);
}
@Override
public void OnImuUpdate(long timeStamp, float Q[]) {
   double[] angles = ToEulerAngles(Q[0],Q[1],Q[2],Q[3]);
   mTextImu.setText("IMU Data: row:" + (int)angles[0] + " pitch:" + (int)angles[1] +
          " yaw:" + (int)angles[2] + "\nts:" + timeStamp);
   //mTextImu.setText("IMU Data:" + Q[0] + "," + Q[1] + "," + Q[2] + "," + Q[3]);
}
@Override
public void OnLsensorUpdate(int lux) {
   mLsensorInfo.setText("LSensor: " + lux);
@Override
public void OnPsensorUpdate(boolean status) {
   mPsensorInfo.setText("PSensor:" + status);
}
```

**}**;