GLORYSTAR
TABLETS FOR ENTERPRISE

VEGA X

SOFTWARE SDK USER GUIDE

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This document is based on the demo APK of Vega X released to our customers and serve as a guidance to your software integration.

CAMERA

In the Demo APK sourcedoe- go to app--- src---- main--- java---- com--- example--- vod, then you will see the file " Main Activity.Java" to find the controlling source codes for the camera.

The below source code is to control the turning on the camera.

```
Intent intent = new Intent();
            intent.setAction(MediaStore.ACTION_IMAGE_CAPTURE);
            startActivity(intent);
            output(1);
```

Definition

startActivity(intent) is to turn on the camera
output(1); is to turn ON the two lights on the camera
output(2); is to turn OFF the two lights on the camera

CAMERA LED LIGHT DEFINITION

Control the ON /OFF of the Camera light DEFINITION. Please go to JNI folder from the DEMO APK source code package.

```
if (tag == 1){
        LOGI("test 1");
        ioctl(fd, IOCTL_CAM_LED, ON);
    }else if(tag == 2){
        LOGI("test 2");
        ioctl(fd, IOCTL_CAM_LED, OFF);
    }
```

LUMINANCE SENSOR

From the Demo APK source code, you need to go to app--- scr---main---java----com---example---vod----" MainActivity.java"

```
sensorManager = (SensorManager) getSystemService(Context.SENSOR_SERVICE);
```

This is to control Luminance on the panel

```
sensorManager.registerListener(this,sensorManager.getDefaultSensor(Sensor.TYPE_LIGHT),
SensorManager.SENSOR_DELAY_NORMAL);
```

This is to control Proximity on the panel

```
sensorManager.registerListener(this,sensorManager.getDefaultSensor(Sensor.TYPE_PROXI
MITY),SensorManager.SENSOR_DELAY_NORMAL);
  }
```

This is to monitor the changes of the luminance and proximity sensors on the device

```
@Override
  public void onSensorChanged(SensorEvent event) {
    float[] values = event.values;
    StringBuilder stringBuilder;

    int type = event.sensor.getType();
    switch (type) {
      case Sensor.TYPE_LIGHT:
        stringBuilder = new StringBuilder();
        stringBuilder.append("当前光感强度为：");
        stringBuilder.append(values[0]);
        tv_light.setText(stringBuilder.toString()+"lx");
        break;
      case Sensor.TYPE_PROXIMITY:
        stringBuilder = new StringBuilder();
        stringBuilder.append("当前距离：");
        stringBuilder.append(values[0]);
        tv_distance.setText(stringBuilder.toString());
        break;
    }
  }

  @Override
  public void onAccuracyChanged(Sensor sensor, int accuracy) {

  }
```

Controlling I/O Input 1 and I/O Input 2

```
public Runnable oneRunable = new Runnable() {
      @Override
      public void run() {
         int result = input(1);
         System.out.println(result);
         if (result == 1) {
            iv_one.setImageResource(R.drawable.orignal_green);
            output(3);
         } else {
            iv_one.setImageResource(R.drawable.press_green);
            output(4);
         }
         mHandler.postDelayed(oneRunable, 500);
      }
   };
```

CONTROLLING OF INPUT 2

From " Main Activity.java."

```
public Runnable twoRunable = new Runnable() {
      @Override
      public void run() {
         int result = input(2);
         if (result == 1) {
            iv_two.setImageResource(R.drawable.orignal_green);
            output(5);
         } else {
            iv_two.setImageResource(R.drawable.press_green);
            output(6);
         }
         mHandler.postDelayed(twoRunable, 500);
      }
   };
```

DEFINITION OF INPUT 1, INPUT 2, OUTPUT 2, OUTPUT 2

Please find in the folder of JNI under DEMO APK

```
else if(tag == 3){
         ioctl(fd, IOCTL_RELAY_OUT1, ON);
      }else if(tag == 4){
         ioctl(fd, IOCTL_RELAY_OUT1, OFF);
      }else if(tag == 5){
```

```
            ioctl(fd, IOCTL_RELAY_OUT2, ON);
        }else if(tag == 6){
            ioctl(fd, IOCTL_RELAY_OUT2, OFF);
        }
    }
  }

/*
 * Class:     com_example_vod_MainActivity
 * Method:    input
 * Signature: (I)I
 */
JNIEXPORT jint JNICALL Java_com_example_vod_MainActivity_input
  (JNIEnv *env, jobject arg, jint tag){
    if(fd != -1){
        ioctl(fd, IOCTL_RELAY_DRV, ON);
        if(tag == 1){
            num = ioctl(fd, IOCTL_RELAY_IN1);
            return num;
        }else if(tag == 2){
            num = ioctl(fd, IOCTL_RELAY_IN2);
            return num;
        }
    }
  }
```

WIEGAND - MainActivity.java file

This allows you to READ the data from Wiegand input

```
private final String PATH = "/sys/kernel/wiegand/wiegand_read";

Runnable wiegandRunable = new Runnable() {
        @Override
        public void run() {
            FileInputStream fileInputStream = null;
            String result = null;
            try {
                fileInputStream = new FileInputStream(PATH);
                byte[] buff = new byte[1024];
                int length = 0;
                while ((length = fileInputStream.read(buff)) != -1){
                    result = new String(buff, 0, length);
                }
                Message message = mHandler.obtainMessage();
```

```
            message.what = 0;
            message.obj = result;
            mHandler.sendMessage(message);
            fileInputStream.close();
        } catch (IOException e) {
            e.printStackTrace();
        }
        mHandler.postDelayed(wiegandRunable,500);
    }
};
```

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