

KBSW180143 SLAMWARE SDK

SLAMWARESDK SLAMWARESDK

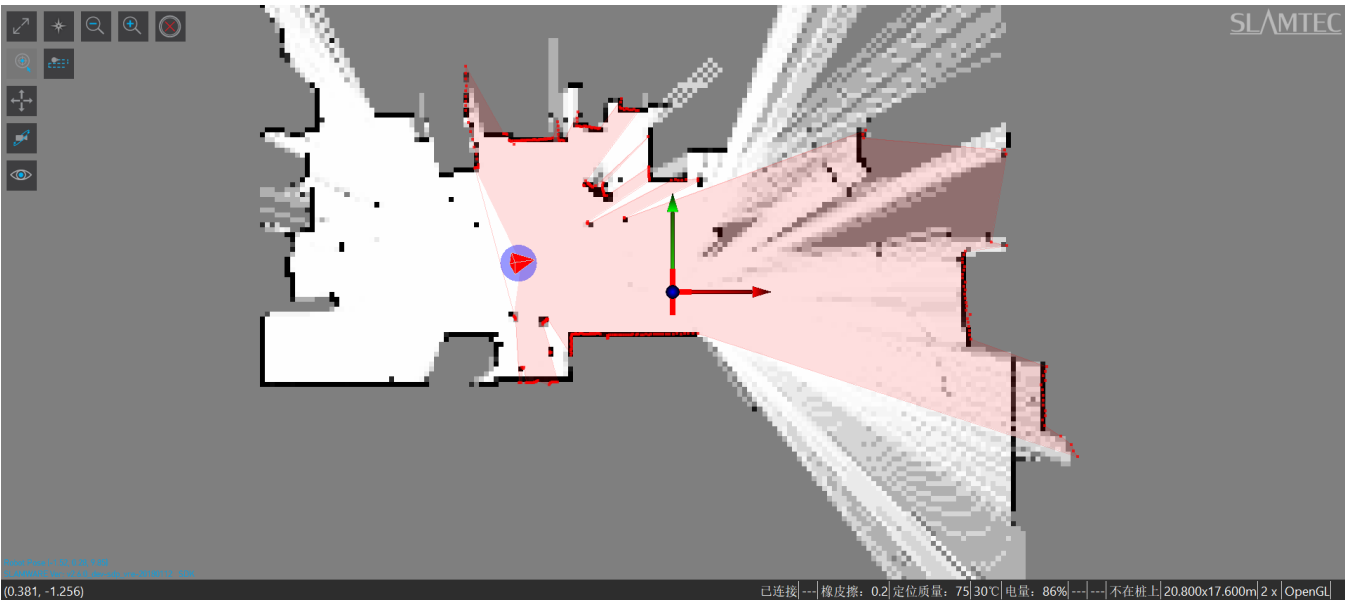
Robostudio

RobostudioX Y

SLAMWARE SDP [-0.59-0.44 -157.37] [X Y yaw] X0



robostudio()yawgetpose()yaw(rad) = (°)*2/360



BMP

Slamwaremapdatabmp



Tip

windows SDKmap2bmp

Map2bmp

```
sdp = SlamwareCorePlatform::connect(opt_sdpIPAddress, opt_sdpPort);

rpos::core::RectangleF knownArea = sdp.getKnownArea(MapTypeBitmap8Bit, rpos::features::location_provider::EXPLORERMAP); //

Map map = sdp.getMap(MapTypeBitmap8Bit, knownArea, rpos::features::location_provider::EXPLORERMAP);//

bitmap_image mapBitmap(map.getMapDimension().x(), map.getMapDimension().y()); //bmp

for (size_t posY = 0; posY < map.getMapDimension().y(); ++posY) //mapdatabmp
{
    for (size_t posX = 0; posX < map.getMapDimension().x(); ++posX)
    {
        rpos::system::types::_u8 cellValue = 128 + map.getMapData()[posX + (map.getMapDimension().y()-posY-1)
* map.getMapDimension().x()];
        mapBitmap.set_pixel(posX, posY, cellValue, cellValue, cellValue);
    }
}
```

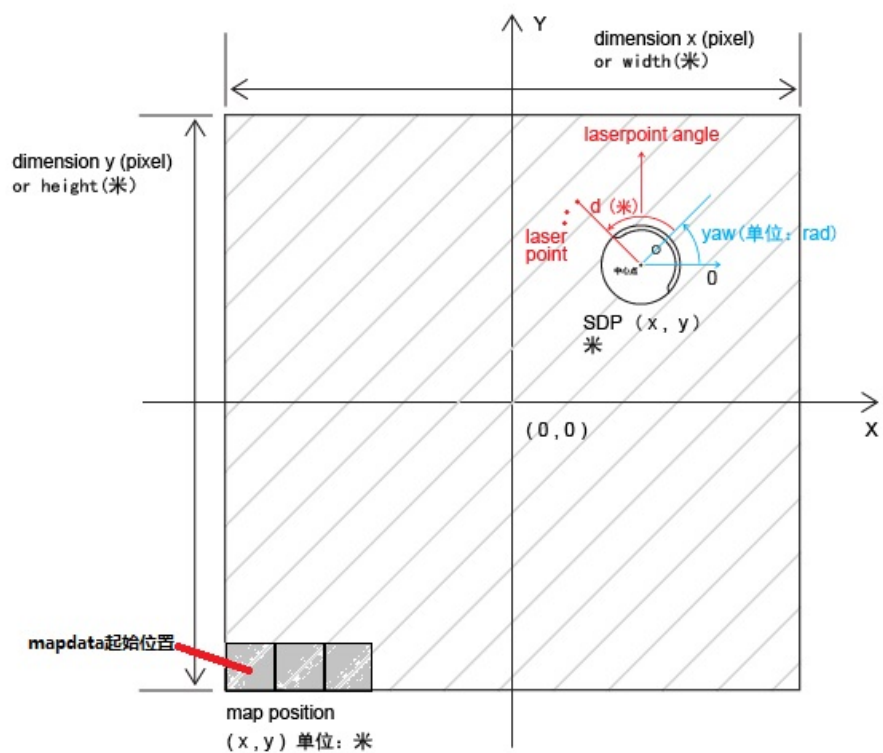
getKnowArea() KnownArea, getMapDimention().x() getMapDimention().y()X, YgetMapData() -128 ~ 127 128

RoboStudiomapdata X min, Y min

Pose positionresolution.



, resolutiongetMapResolution()map postion, getMapPosition() SDPgetPose() yawlaser point0



$$\text{width} = \text{resolution} \cdot \text{dimension } x$$

米 米/像素 像素

$$\text{height} = \text{resolution} \cdot \text{dimension } y$$

米 米/像素 像素



像素

known area