



SDK 属性说明手册

Csharp

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上海图漾信息科技有限公司

SHANGHAI PERCIPPIO TECHNOLOGY LIMITED

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Csharp 属性读写说明

TY_BOOL_AUTO_EXPOSURE

```
DevParam param = cl.DevParamFromBool(false);

cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_BOOL_AUTO_EXPOSURE, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_BOOL_AUTO_EXPOSURE);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_BOOL_GVSP_RESEND

```
DevParam param = cl.DevParamFromBool(false);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_BOOL_GVSP_RESEND, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_BOOL_GVSP_RESEND);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_ACCEPTABLE_PERCENT

```
DevParam param = cl.DevParamFromInt(90);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_ACCEPTABLE_PERCENT, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE,
TY_INT_ACCEPTABLE_PERCENT);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_NTP_SERVER_IP

```
int ip = cl.IPv4StringToInt("0.0.0.0");

DevParam param = cl.DevParamFromInt(ip);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_NTP_SERVER_IP, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_NTP_SERVER_IP);

int read_param_m = read_param.ToInt();

Console.WriteLine($"{read_param_m}");
```

TY_INT_PACKET_SIZE

```
DevParam param = cl.DevParamFromInt(1500);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_PACKET_SIZE, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_PACKET_SIZE);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_ENUM_IMAGE_MODE

```
DevParam param = cl.DevParamFromEnum(TY_PIXEL_FORMAT_DEPTH16 |
TY_RESOLUTION_MODE_1280x960);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_ENUM_IMAGE_MODE, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_ENUM_IMAGE_MODE);

uint m_read_param = read_param.toEnum();

Console.WriteLine($"current value {m_read_param}");

EnumEntryVector m_read_param2 = read_param.eList();

for (int i = 0; i < m_read_param2.Count(); i++)
{
    Console.WriteLine($"description {m_read_param2[i].description}, value { m_read_param2[i].value} ");
}
```

TY_FLOAT_SCALE_UNIT

```
DevParam param = cl.DevParamFromFloat(0.0125f);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_FLOAT_SCALE_UNIT, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_FLOAT_SCALE_UNIT);

float m_read_param = read_param.toFloat();

Console.WriteLine($"current value {m_read_param}");

float min = read_param.fMin();

float max = read_param.fMax();

float inc = read_param.fInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_ENUM_TRIGGER_POL

```
DevParam param = cl.DevParamFromEnum(TY_TRIGGER_POL_FALLINGEDGE);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_TRIGGER_POL, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE,

TY_ENUM_TRIGGER_POL);

uint m_read_param = read_param.toEnum();

Console.WriteLine($"current value {m_read_param}");

EnumEntryVector m_read_param2 = read_param.eList();

for (int i = 0; i < m_read_param2.Count(); i++)

{

    Console.WriteLine($"{ m_read_param2[i].value}");

}

ue))
```

TY_INT_FRAME_PER_TRIGGER

```
DevParam param = cl.DevParamFromInt(5);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_FRAME_PER_TRIGGER, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_FRAME_PER_TRIGGER);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

EnumEntryVector m_read_param2 = read_param.eList();
```



```
for (int i = 0; i < m_read_param2.Count(); i++)  
  
{  
  
    Console.WriteLine($"{ m_read_param2[i].value}");  
  
}
```

TY_BOOL_KEEP_ALIVE_ONOFF

```
DevParam param = cl.DevParamFromBool(false);  
  
cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_BOOL_KEEP_ALIVE_ONOFF, param);  
  
DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_BOOL_KEEP_ALIVE_ONOFF);  
  
bool m_status = status.toBool();  
  
Console.WriteLine($"current value {m_status}");
```

TY_INT_KEEP_ALIVE_TIMEOUT

```
DevParam param = cl.DevParamFromInt(3000);  
  
cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_KEEP_ALIVE_TIMEOUT, param);  
  
DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_KEEP_ALIVE_TIMEOUT);  
  
int m_read_param = read_param.toInt();  
  
Console.WriteLine($"current value {m_read_param}");  
  
int min = read_param.mMin();  
  
int max = read_param.mMax();  
  
int inc = read_param.mInc();  
  
Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_PACKET_DELAY

```
DevParam param = cl.DevParamFromInt(0);  
  
cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_PACKET_DELAY, param);  
  
DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_PACKET_DELAY);  
  
int m_read_param = read_param.toInt();  
  
Console.WriteLine($"current value {m_read_param}");  
  
int min = read_param.mMin();  
  
int max = read_param.mMax();  
  
int inc = read_param.mInc();
```

```
Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_CMOS_SYNC

```
DevParam param = cl.DevParamFromBool(false);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_BOOL_CMOS_SYNC, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_BOOL_CMOS_SYNC);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_ENUM_STREAM_ASYNC

```
DevParam param = cl.DevParamFromEnum(TY_STREAM_ASYNC_ALL);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_STREAM_ASYNC, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_STREAM_ASYNC);

uint m_read_param = read_param.toEnum();

Console.WriteLine($"current value {m_read_param}");

EnumEntryVector m_read_param2 = read_param.eList();

for (int i = 0; i < m_read_param2.Count(); i++)

{

    Console.WriteLine($"{ m_read_param2[i].value}");

}
```

TY_INT_CAPTURE_TIME_US

```
DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_CAPTURE_TIME_US);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");
```

TY_ENUM_TIME_SYNC_TYPE

```
DevParam param = cl.DevParamFromEnum(TY_TIME_SYNC_TYPE_HOST);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_TIME_SYNC_TYPE, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_TIME_SYNC_TYPE);

uint m_read_param = read_param.toEnum();

Console.WriteLine($"current value {m_read_param}");

EnumEntryVector m_read_param2 = read_param.eList();
```

```
for (int i = 0; i < m_read_param2.Count(); i++){

    Console.WriteLine($"{ m_read_param2[i].value}");

}
```

TY_BOOL_TIME_SYNC_READY

```
DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_BOOL_TIME_SYNC_READY);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_EXPOSURE_TIME

```
DevParam param = cl.DevParamFromInt(500);

cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_EXPOSURE_TIME, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_EXPOSURE_TIME);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_GAIN

```
DevParam param = cl.DevParamFromInt(500);

cl.DeviceSetParameter(handle, TY_COMPONENT_IR_CAM_LEFT, TY_INT_GAIN, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_IR_CAM_LEFT, TY_INT_GAIN);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_AUTO_GAIN

```
DevParam param = cl.DevParamFromBool(true);
```

```
cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_BOOL_AUTO_GAIN, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_BOOL_AUTO_GAIN);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_TOF_HDR_RATIO

```
DevParam param = cl.DevParamFromInt(1);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_TOF_HDR_RATIO, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_TOF_HDR_RATIO);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_TOF_JITTER_THRESHOLD

```
DevParam param = cl.DevParamFromInt(1);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_TOF_JITTER_THRESHOLD, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_INT_TOF_JITTER_THRESHOLD);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_LASER_AUTO_CTRL

```
DevParam param = cl.DevParamFromBool(true);

cl.DeviceSetParameter(handle, TY_COMPONENT_LASER, TY_BOOL_LASER_AUTO_CTRL, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_LASER, TY_BOOL_LASER_AUTO_CTRL);

bool m_status = status.toBool();
```

```
Console.WriteLine($"current value {m_status}");
```

TY_INT_LASER_POWER

```
DevParam param = cl.DevParamFromInt(1);

cl.DeviceSetParameter(handle, TY_COMPONENT_LASER, TY_INT_LASER_POWER, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_LASER, TY_INT_LASER_POWER);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_AUTO_AWB

```
DevParam param = cl.DevParamFromBool(true);

cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_BOOL_AUTO_AWB, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_BOOL_AUTO_AWB);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_R_GAIN

```
DevParam param = cl.DevParamFromInt(1);

cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_R_GAIN, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_R_GAIN);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_G_GAIN

```
DevParam param = cl.DevParamFromInt(1);
```

```
cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_G_GAIN, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_G_GAIN);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_B_GAIN

```
DevParam param = cl.DevParamFromInt(1);

cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_B_GAIN, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_B_GAIN);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_ANALOG_GAIN

```
DevParam param = cl.DevParamFromInt(1);

cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_ANALOG_GAIN, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_ANALOG_GAIN);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_HDR

```
DevParam param = cl.DevParamFromBool(true);
```

```
cl.DeviceSetParameter(handle, TY_COMPONENT_IR_CAM_LEFT, TY_BOOL_HDR, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_IR_CAM_LEFT, TY_BOOL_HDR);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_SGBM_IMAGE_NUM

```
DevParam param = cl.DevParamFromInt(3);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_IMAGE_NUM, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_IMAGE_NUM);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_DISPARITY_NUM

```
DevParam param = cl.DevParamFromInt(3);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_DISPARITY_NUM, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_DISPARITY_NUM);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_DISPARITY_OFFSET

```
DevParam param = cl.DevParamFromInt(3);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_DISPARITY_OFFSET, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
```

```
TY_INT_SGBM_DISPARIITY_OFFSET);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_MATCH_WIN_HEIGHT

```
DevParam param = cl.DevParamFromInt(3);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_MATCH_WIN_HEIGHT, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_INT_SGBM_MATCH_WIN_HEIGHT);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_SEMI_PARAM_P1

```
DevParam param = cl.DevParamFromInt(10000);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_SEMI_PARAM_P1, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_INT_SGBM_SEMI_PARAM_P1);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```


TY_INT_SGBM_SEMI_PARAM_P2

```
DevParam param = cl.DevParamFromInt(0);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_SEMI_PARAM_P2, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_SEMI_PARAM_P2);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_UNIQUE_FACTOR

```
DevParam param = cl.DevParamFromInt(511);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_UNIQUE_FACTOR, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_UNIQUE_FACTOR);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_UNIQUE_ABSDIFF

```
DevParam param = cl.DevParamFromInt(10000);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_UNIQUE_ABSDIFF, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_UNIQUE_ABSDIFF);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();
```

```
int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_SGBM_HFILTER_HALF_WIN

```
DevParam param = cl.DevParamFromBool(true);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_BOOL_SGBM_HFILTER_HALF_WIN, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_BOOL_SGBM_HFILTER_HALF_WIN);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_SGBM_MATCH_WIN_WIDTH

```
DevParam param = cl.DevParamFromInt(5);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_MATCH_WIN_WIDTH, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_INT_SGBM_MATCH_WIN_WIDTH);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_SGBM_MEDFILTER

```
DevParam param = cl.DevParamFromBool(true);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_BOOL_SGBM_MEDFILTER, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_BOOL_SGBM_MEDFILTER);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_BOOL_SGBM_LRC

```
DevParam param = cl.DevParamFromBool(true);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_BOOL_SGBM_LRC, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_BOOL_SGBM_LRC);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_SGBM_LRC_DIFF

```
DevParam param = cl.DevParamFromInt(5);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_LRC_DIFF, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_LRC_DIFF);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_MEDFILTER_THRESH

```
DevParam param = cl.DevParamFromInt(5);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_MEDFILTER_THRESH, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_INT_SGBM_MEDFILTER_THRESH);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_SEMI_PARAM_P1_SCALE

```
DevParam param = cl.DevParamFromInt(5);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_SEMI_PARAM_P1_SCALE, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_SEMI_PARAM_P1_SCALE);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_ENUM_DEPTH_QUALITY

```
DevParam param = cl.DevParamFromEnum(TY_DEPTH_QUALITY_HIGH);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_ENUM_DEPTH_QUALITY, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_ENUM_DEPTH_QUALITY);

uint m_read_param = read_param.toEnum();

Console.WriteLine($"current value {m_read_param}");

EnumEntryVector m_read_param2 = read_param.eList();

for (int i = 0; i < m_read_param2.Count(); i++)

{

Console.WriteLine($"{ m_read_param2[i].value}");

}

}
```

TY_INT_TOF_CHANNEL

```
DevParam param = cl.DevParamFromInt(5);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_TOF_CHANNEL, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_TOF_CHANNEL);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();
```

```
int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_TOF_MODULATION_THRESHOLD

```
DevParam param = cl.DevParamFromInt(5);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_TOF_MODULATION_THRESHOLD, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_INT_TOF_MODULATION_THRESHOLD);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_TOF_ANTI_SUNLIGHT_INDEX

```
DevParam param = cl.DevParamFromInt(2);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_TOF_ANTI_SUNLIGHT_INDEX, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_INT_TOF_ANTI_SUNLIGHT_INDEX);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_MAX_SPECKLE_SIZE

```
DevParam param = cl.DevParamFromInt(200);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_MAX_SPECKLE_SIZE, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_INT_MAX_SPECKLE_SIZE);
```

```
int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_MAX_SPECKLE_DIFF

```
DevParam param = cl.DevParamFromInt(200);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_MAX_SPECKLE_DIFF, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_MAX_SPECKLE_DIFF);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_PERSISTENT_IP

```
int ip = cl.IPv4StringToInt("0.0.0.0");

DevParam param = cl.DevParamFromInt(ip);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_PERSISTENT_IP, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_PERSISTENT_IP);

int read_param_m = read_param.ToInt();

Console.WriteLine($"read_param_m");
```

TY_INT_PERSISTENT_SUBMASK

```
int netmask = cl.IPv4StringToInt("0.0.0.0");

DevParam param1 = cl.DevParamFromInt(netmask);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_PERSISTENT_SUBMASK, param1);

DevParam read_param1 = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE,
TY_INT_PERSISTENT_SUBMASK);
```


TY_INT_AE_TARGET_Y

```
DevParam param = cl.DevParamFromInt(200);

cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_AE_TARGET_Y, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_INT_AE_TARGET_Y);

int m_read_param = read_param.ToInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_TOF_ANTI_INTERFERENCE

```
DevParam param = cl.DevParamFromBool(true);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_BOOL_TOF_ANTI_INTERFERENCE, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,

TY_BOOL_TOF_ANTI_INTERFERENCE);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_ENUM_CONFIG_MODE

```
DevParam param = cl.DevParamFromEnum(TY_CONFIG_MODE_PRESET0);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_CONFIG_MODE, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_CONFIG_MODE);

uint m_read_param = read_param.toEnum();

Console.WriteLine($"current value {m_read_param}");

EnumEntryVector m_read_param2 = read_param.eList();

for (int i = 0; i < m_read_param2.Count(); i++)

{

    Console.WriteLine($"{ m_read_param2[i].value}");

}
```

TY_BOOL_IR_FLASHLIGHT


```
DevParam param = cl.DevParamFromBool(true);

cl.DeviceSetParameter(handle, TY_COMPONENT_LASER, TY_BOOL_IR_FLASHLIGHT, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_LASER, TY_BOOL_IR_FLASHLIGHT);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_IR_FLASHLIGHT_INTENSITY

```
DevParam param = cl.DevParamFromInt(0);

cl.DeviceSetParameter(handle, TY_COMPONENT_LASER, TY_INT_IR_FLASHLIGHT_INTENSITY, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_LASER,

TY_INT_IR_FLASHLIGHT_INTENSITY);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_BOOL_RGB_FLASHLIGHT

```
DevParam param = cl.DevParamFromBool(true);

cl.DeviceSetParameter(handle, TY_COMPONENT_LASER, TY_BOOL_RGB_FLASHLIGHT, param);

DevParam status = cl.DeviceGetParameter(handle, TY_COMPONENT_LASER, TY_BOOL_RGB_FLASHLIGHT);

bool m_status = status.toBool();

Console.WriteLine($"current value {m_status}");
```

TY_INT_RGB_FLASHLIGHT_INTENSITY

```
DevParam param = cl.DevParamFromInt(0);

cl.DeviceSetParameter(handle, TY_COMPONENT_LASER, TY_INT_RGB_FLASHLIGHT_INTENSITY, param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_LASER,

TY_INT_RGB_FLASHLIGHT_INTENSITY);

int m_read_param = read_param.toInt();

Console.WriteLine($"current value {m_read_param}");
```

```
int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}");
```

TY_INT_SGBM_TEXTURE_THRESH

```
DevParam param = cl.DevParamFromInt(1088);

int error = cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_TEXTURE_THRESH,
param);

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_TEXTURE_THRESH);

int m_read_param = read_param.toInt();

int min = read_param.mMin();

int max = read_param.mMax();

int inc = read_param.mInc();

Console.WriteLine($"min : {min},max: {max},inc: {inc}+++++{m_read_param}");
```

TY_INT_SGBM_TEXTURE_OFFSET

```
DevParam read_param1 = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_TEXTURE_OFFSET);

int m_read_param1 = read_param1.toInt();

int min1 = read_param1.mMin();

int max1 = read_param1.mMax();

int inc1 = read_param1.mInc();

Console.WriteLine($"min : {min1},max: {max1},inc: {inc1}++++++{m_read_param1}");
```

TY_FLOAT_EXPOSURE_TIME_US

```
DevParam param2 = cl.DevParamFromFloat(1088);

int error2 = cl.DeviceSetParameter(handle, TY_COMPONENT_IR_CAM_LEFT, TY_FLOAT_EXPOSURE_TIME_US,
param2);

DevParam read_param2 = cl.DeviceGetParameter(handle, TY_COMPONENT_IR_CAM_LEFT,
TY_FLOAT_EXPOSURE_TIME_US);

float m_read_param2 = read_param2.toFloat();
```

```
Console.WriteLine($"current value {m_read_param2}");

float min2 = read_param2.fMin();

float max2 = read_param2.fMax();

float inc2 = read_param2.fInc();

Console.WriteLine($"min : {min2},max: {max2},inc: {inc2}");
```

TY_ENUM_TEMPERATURE_ID

```
DevParam param5 = cl.DevParamFromEnum(TY_TEMPERATURE_LEFT);

int error5 = cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_TEMPERATURE_ID, param5);

DevParam read_param5 = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE, TY_ENUM_TEMPERATURE_ID);

uint m_read_param5 = read_param5.toEnum();

Console.WriteLine($"current value {m_read_param5}");

EnumEntryVector l_read_param5 = read_param5.eList();

for (int i = 0; i < l_read_param5.Count(); i++)

{

    float tmp= cl.DeviceControlReadTemperature(handle, l_read_param5[i].value);

    Console.WriteLine(string.Format("{0}={1}",l_read_param5[i].description,tmp)); }
```

TYSetLogLevel

```
TYSetLogLevel(5);

// 控制台输出的日志信息，设置 Log 等级详情：TY_LOG_LEVEL_VERBOSE = 1,TY_LOG_LEVEL_DEBUG = 2,

// TY_LOG_LEVEL_INFO = 3,TY_LOG_LEVEL_WARNING = 4,

// TY_LOG_LEVEL_ERROR = 5,TY_LOG_LEVEL_NEVER = 9,
```

TYSetLogPrefix

```
TYSetLogPrefix("Percipio Csharp SDK");

// 观察控制台上 SDK 输出的日志前缀是否为 Percipio Csharp SDK
```

图漾科技 (Percipio.XYZ) 是全球领先的3D机器视觉供应商，为工业和行业应用提供高性价比的3D工业相机和配套软件方案。公司总部位于上海、在南京、深圳和广州设有研发及销售服务中心。

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存在即被感知

联系信息

商务咨询: info@percipio.xyz
技术支持: support@percipio.xyz
公司网站: www.percipio.xyz
在线文档: doc.percipio.xyz/cam/latest/



微信公众号