



# Camera SDK Features Guide

C#

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# 1 Features Under the *Device* Component

## 1.1 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}");
```

## 1.2 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}");
```

## 1.3 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}");
```

## 1.4 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}");
```

## 1.5 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}");

}
```

## 1.6 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}");

}
```

## 1.7 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}");
```

## 1.8 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}");
```

## 1.9 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}");
```

## 1.10 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}");
```

## 1.11 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}");
}
```

## 1.12 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}");
```

## 1.13 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}");

}
```

## 1.14 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}");
```

## 1.15 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}");
```

## 1.16 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);

int read_param_m1 = read_param1.toInt();

Console.WriteLine($"{read_param_m1}");
```

## 1.17 TY\_INT\_PERSISTENT\_GATEWAY

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

DevParam param2 = cl.DevParamFromInt(gateway);

cl.DeviceSetParameter(handle, TY_COMPONENT_DEVICE, TY_INT_PERSISTENT_GATEWAY, param2);

DevParam read_param2 = cl.DeviceGetParameter(handle, TY_COMPONENT_DEVICE,

TY_INT_PERSISTENT_GATEWAY);

int read_param_m2 = read_param2.toInt();

Console.WriteLine($"{read_param_m2}");
```

## 1.18 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}");

}
```

## 1.19 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)); }

}
```

## 2 Features Under the *Laser* Component

### 2.1 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}");
```

### 2.2 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}");
```

### 2.3 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}");
```

### 2.4 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}");
```

## 2.5 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}");
```

## 2.6 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}");
```

## 3 Features Under the *Depth* Component

### 3.1 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}");
```

### 3.2 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}");
```

### 3.3 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}");
```

### 3.4 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}");
```

### 3.5 TY\_INT\_SGBM\_DISPARIITY\_NUM

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

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

DevParam read_param = cl.DeviceGetParameter(handle, TY_COMPONENT_DEPTH_CAM,
TY_INT_SGBM_DISPARIITY_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}");
```

### 3.6 TY\_INT\_SGBM\_DISPARIITY\_OFFSET

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

cl.DeviceSetParameter(handle, TY_COMPONENT_DEPTH_CAM, TY_INT_SGBM_DISPARIITY_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}");
```

### 3.7 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}");
```

### 3.8 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}");
```

### 3.9 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}");
```

### 3.10 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}");
```

### 3.11 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}");
```



### 3.12 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}");
```

### 3.13 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}");
```

### 3.14 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}");
```

### 3.15 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}");
```

### 3.16 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}");
```

### 3.17 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}");
```

### 3.18 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}");
```

### 3.19 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}");
}
```

### 3.20 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}");
```

### 3.21 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}");
```

## 3.22 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}");
```

## 3.23 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}");
```

## 3.24 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}");
```

### 3.25 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}");
```

### 3.26 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}");
```

## 4 Features Under the *RGB* Component

### 4.1 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}");
```

### 4.2 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}");
```

### 4.3 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}");
```

### 4.4 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}");
```

## 4.5 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}");
```

## 4.6 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}");
```

## 4.7 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}");
```

## 4.8 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}");
```

## 4.9 TY\_STRUCT\_AEC\_ROI

```
PercipioAecROI roi = new PercipioAecROI(0, 0, 640, 480);

DevParam param1 = cl.DevParamFromPercipioAecROI(roi);

cl.DeviceSetParameter(handle, TY_COMPONENT_RGB_CAM, TY_STRUCT_AEC_ROI, param1);

DevParam readParam = cl.DeviceGetParameter(handle, TY_COMPONENT_RGB_CAM, TY_STRUCT_AEC_ROI);

ArrayVector mReadParam = readParam.toArray();

Console.WriteLine("aec roi: " + string.Join(", ", mReadParam));
```

## 4.10 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}");
```



## 5 Features Under the *IR* Component

### 5.1 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}");
```

### 5.2 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}");
```

### 5.3 TY\_BYTEARRAY\_HDR\_PARAMETER

```
ByteArrayVector array = new ByteArrayVector { 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 11, 0, 0, 0, 14,
0, 0, 0 };

DevParam arr = cl.DevParamFromByteArray(array);

cl.DeviceSetParameter(handle, TY_COMPONENT_IR_CAM_LEFT, TY_BYTEARRAY_HDR_PARAMETER, arr);

DevParam hdr_arr = cl.DeviceGetParameter(handle, TY_COMPONENT_IR_CAM_LEFT,
TY_BYTEARRAY_HDR_PARAMETER);

ByteArrayVector hdr_arr_1 = hdr_arr.toByteArray();

for (int i = 0; i < hdr_arr_1.Count(); i++){

    Console.WriteLine($"{hdr_arr_1[i]}");

}
```

## 5.4 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}");
```

## 6 Other Common Features

### 6.1 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} ");

}
```

### 6.2 TYSetLogLevel

```
TYSetLogLevel(5);

// Log information output by the SDK on the console. Log level definition:

// 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,
```

### 6.3 TYSetLogPrefix

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

// Check if the log prefix on the console is "Percipio Csharp SDK"
```

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