

Version: V3.2.0-20220528

Description:

1. Ros wrapper support firmware point cloud.
2. Fix issue that viewer RGBD no image when setting the tof parameters to 'DF VGA LABELIZE'.
3. Fix demo api issue that article 48 als no incident reported.
4. Fix demo api issue that article 48 The type and state reported by the P-sensor event are Unknown.
5. Fix demo api issue that demo api crashes when switching to PointCloud mode for the first time after plugging and unplugging.
6. Fix demo api issue that There is no RGBD data after setting the rgb resolution for the second time.
7. Fix issue that viewer will crash use firmware that slam and sgbm.
8. Fix issue that slam can't run when running 6dof data on windows platform use demo api tool(2 item).
9. Support downsample function include SDK, viewer, all_stream adn sgbm demo.
10. Fix issue that hot plug crash.

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Version: V3.2.0-20220408

Description:

1. demo api new functionals:
 - tof all modes: resolution, 3 working modes, frame rate
 - fisheye resolution switch
 - tof point cloud
 - sgbm point cloud
 - rgb
2. Fix the bug that the rgb resolution switching probability is stuck
3. ros tof point cloud
4. ros sgbm point cloud
5. Change the default mode of tof to qvga edge mode in ros wrapper
6. Automatic conversion of tof qvga calibration parameters

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Version: V3.2.0-20220321

Description:

1. Added tof qvga
2. arm64 ros support:
 - a) Fix the bug that arm64 uvc and vsc cannot coexist
 - b) Modify sgbm initial config to improve sgbm image quality
3. Added vga tof point cloud data:
 - a) Interface:tofCamera()->depthImageToPointCloud(..), called in tof image callback, please refer to the relevant sample code for details;
 - b) Test demo:all_stream "" "tof_point_cloud:1" , the point cloud file is saved in the running directory
4. Added sgbm point cloud:
 - a) Interface:sgbmCamera()->depthImageToPointCloud(...), called in sgbm image callback, please refer to the relevant sample code for details;
 - b) Test demo: sgbm_demo, the point cloud file is saved in the running directory
5. Change the default configuration parameters of sgbm of xvsdk:

```
static struct xv::sgbm_config global_config = {  
    1, //enable_dewarp  
    1.0, //dewarp_zoom_factor  
    0, //enable_disparity  
    1, //enable_depth  
    0, //enable_point_cloud  
    0.08, //baseline  
    96, //fov  
    255, //disparity_confidence_threshold  
    {1.0, 0.0, 0.0, 0.0, 1.0, 0.0, 0.0, 0.0, 1.0}, //homography  
    1, //enable_gamma  
    2.2, //gamma_value
```

- ```

0, //enable_gaussian
0, //mode
8000, //max_distance
100, //min_distance
};

```
6. Package the sdk api documentation into the installation package
    - a) linux path: /usr/share/doc/xv sdk/index.html
    - b) android path: xv sdk\_xxx\_adnoid/doc/index.html
    - c) windows path: <xv sdk\_install\_path>/doc/xv sdk/index.html
  7. Fix the bug that sgbm cannot work in the demo-api test program
  8. android libc++ static library integration
  9. Gesture function integration (android only), requires corresponding hardware support, if you need this function, please contact xv isio support
  10. The eye control function is integrated (only android), and the corresponding hardware support is required. If you need this function, please contact the xv isio support
  11. Fix vsc fisheye firmware not working after hotplug

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Version: V3.2.0-20220304

Description:

1. vga tof mode settings:
  - Freq: SF|DF
  - mode:IQ|M2|edge
  - FPS: 5-30

Note that the fps setting item is not output according to the actual setting mode in some modes due to performance impact,

the fps in the following table shall prevail:

  - IQ DF: 30FPS
  - IQ SF: 30FPS
  - M2 DF: 4.5FPS
  - M2 SF: 13FPS
  - M2 DF: 3.5FPS
  - M2 SF: 7FPS
2. vga tof Android version
3. Added tof filter file settings
4. Fisheye resolution 640\*800 /1280\*800 switch
5. python wrapper
  - a) Complete basic functions: 6dof, 3dof, rgb, tof, sgbm.
  - b) only windows .
6. ros wrapper adds sgbm
7. arm64 ubuntu18
8. Fix log error such as hid/flash
9. Fix vga tof single-frequency dual-frequency switching automatic exposure does not take effect, need to match the firmware version 20220305
10. The rgb frame rate switch needs to match the firmware after version 20220305
11. fix tool
  - a) remove audio\_in, audio\_out, rgb\_on\_uvc\_stream
  - b) Remove the log printing of Alx in imu\_stream
  - c) remove error message printing in thermal\_stream
  - d) Fixed the problem of garbled characters in the log of the slam\_3dof\_display\_calib tool in the Windows version

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Version: V3.2.0-20220220

Description:

1. fix the stability of windows usb transfer process;
2. Complete the vga tof distance mode switching function;
  - long:IQMODE VGA Dul freq

short:IQMODE VGA single freq

middle:IQMODE VGA single freq

3. optimize the data processing of vga tof;

4. VGA TOF ROS release;

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Version: V3.2.0-20220125

1. vga tof release, only IQ mode

2. sgbm release