


Device Settings Tab

 SX3 Configuration Utility

Device 

SX3 UVC

Device Settings

UVC Settings

UAC Settings

FIFO Master Config

Video Source Config

USB Settings

Vendor ID

Product ID

Manufacturer

Product String

Serial Number

Auto-Increment Serial Number ☐

Power Configuration 

Bus Powered

Number of Endpoints 

2

Endpoint 1 

UVC

Endpoint 2 

UAC

FIFO Parallel Bus Width 

32

FIFO Clock Frequency

GPIOs

GPIO 1

GPIO 2

GPIO 3

GPIO 4

GPIO 5

GPIO 6

GPIO 7

PWM

PWM

Not Used

PWM

Focus Button

Not Used

Not Used

Debug

Debug Enable ☐

Debug Level 

2

Console

Help

Device detected.

Clear Log

Save Log

Version 1.1

SX3 UVC Detected

## UVC Settings

SX3 Configuration Utility

DeviceSX3 UVC

Device Settings

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UAC Settings

FIFO Master Config

Video Source Config

Endpoint 1

Endpoint 2

S.No	Image Format	Bits Per Pixel	Pixel per PCLK	H Resolution	V Resolution	Frame rate	Still Capture	Supported in LS	Supported in HS	Supported in SS	Frame Rate in LS	Frame Rate in HS	Frame Rate in SS

Color PrimariesUnspecified

Transfer CharacteristicsUnspecified

Matrix CoefficientsUnspecified

Endpoint Settings

Endpoint 1 Transfer TypeBulk

Endpoint 1 Burst Length16

Endpoint 1 Buffer Count1

Endpoint 1 Buffer Size (Bytes)1

Camera Controls

	Min	Max	Default	Step
Auto-Exposure Mode	<input type="checkbox"/> Enable			
Auto-Exposure Priority	<input type="checkbox"/> Enable			
Exposure Time	<input type="checkbox"/> Enable			
Focus	<input type="checkbox"/> Enable			
Iris	<input type="checkbox"/> Enable			
Zoom	<input type="checkbox"/> Enable			
Pan	<input type="checkbox"/> Enable			
Tilt	<input type="checkbox"/> Enable			
Roll	<input type="checkbox"/> Enable			
Window	<input type="checkbox"/> Enable			
Region of Interest	<input type="checkbox"/> Enable			

Processing Unit Controls

	Min	Max	Default	Step
Brightness	<input type="checkbox"/> Enable			
Contrast	<input type="checkbox"/> Enable			
Saturation	<input type="checkbox"/> Enable			
Hue	<input type="checkbox"/> Enable			
Sharpness	<input type="checkbox"/> Enable			
Gamma	<input type="checkbox"/> Enable			
White Balance	<input type="checkbox"/> Enable			
Backlight Compensation	<input type="checkbox"/> Enable			
Gain	<input type="checkbox"/> Enable			
Power Line Frequency	<input type="checkbox"/> Enable			
White Balance Component	<input type="checkbox"/> Enable			

Extension Unit Controls

Vendor Commands

Device Reset☐ Enable

I2C Register Read☐ Enable

I2C Register Write☐ Enable

Firmware Update☐ Enable

Load Configuration

Save Configuration

Read Configuration

Program

Console

Help

Device detected.

Clear Log

Save Log

## UAC Settings

SX3 Configuration Utility

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Video Source Config

Endpoint Settings

Endpoint 2 Transfer TypeBulk

Endpoint 2 Burst Length16

Endpoint 2 Buffer Count1

Endpoint 2 Buffer Size (Bytes)1

Terminal TypeMicrophone

Number of Channels1

Channel Configuration

D0: Left Front (L)  
D3: Low Frequency Enhancement (LFE)  
D6: Left of Center (LC)  
D9: Side Left (SL)

D1: Right Front (R)  
D4: Left Surround (LS)  
D7: Right of Center (RC)  
D10: Side Right (SR)

D2: Center Front (C)  
D5: Right Surround (RS)  
D8: Surround (S)  
D11: Top (T)

Audio FormatPCM

Bit Resolution16-bit

Number of Sampling Frequencies3

Sampling Frequency 140000

Sampling Frequency 244100

Sampling Frequency 348000

Feature Unit Controls

Volume  
Mute  
Tone Control (Bass, Mid, Treble)  
Graphic Equalizer

Automatic Gain Control  
Delay  
Bass Boost  
Loudness

Load Configuration

Save Configuration

Read Configuration

Program

Console

Help

Device detected.


Clear Log

Save Log

Version 1.1

SX3 UVC Detected

FIFO Master (FPGA/ISP) Configuration

 SX3 Configuration Utility

Device 

SX3 UVC

Help

Device Settings

UVC Settings

UAC Settings

FIFO Master Config

Video Source Config

Configuration Download

FPGA Family

Lattice

Enable FPGA Configuration Download

☐

Choose .bit file

Browse

Configuration Done

FPGA I2C Register Map

FPGA I2C Slave address

0x02

Choose .json file

Browse

Load Configuration

Save Configuration

Read Configuration

Program

Console

Help

Device detected.

Clear Log

Save Log

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## Video Source Configuration



Device **SX3 UVC**

Help

Device Settings

UVC Settings

UAC Settings

FIFO Master Config

Video Source Config

Endpoint 1

Endpoint 2

Configuration Download

Enable Video Source Configuration Download

Choose .json file

Browse

FPGA I2C Slave address

0x02

FPGA I2C Data Size

8

Bytes

FPGA I2C Register AddressSize

8

Camera Controls

Register Address

Auto-Exposure Mode

Auto-Exposure Priority

Exposure Time

Focus

Iris

Zoom

Pan

Tilt

Roll

Window

Region of Interest

Processing Unit Controls

Register Address

Brightness

Contrast

Saturation

Hue

Sharpness

Gamma

White Balance

Backlight Compensation

Gain

Power Line Frequency

White Balance Component

Video Resolutions

Video Resolution Config File

Edit

Load Configuration

Save Configuration

Read Configuration

Program

Console

Help

Device detected.

Clear Log

Save Log

Version 1.1

SX3 UVC Detected