

AVer UVC Extension Unit

Version 1.7

June 23, 2022



Revision History

| Version Number | Date | Author(s) | Remark |
|----------------|---------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.15 | May 3, 2022 | Chenhsun Chai | 1. Add Audio Beamforming in XU6 group 2. Add LED Control in XU6 group 3. Add IRCut Filter Control in XU6 group 4. Add IRCut Sensitivity in XU6 group 5. Revise formatting & fixed typo |
| 1.16 | June 23, 2022 | Yen Chang | Add Focus on trigger in XU3 group |
| 1.17 | July 22, 2022 | Yen Chang | Revise document |



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1. Introduction

This document contains information about AVer UVC Extension Unit API. The defined AVer XU* are used to being common control interface. The standard UVC control, Camera Terminal and Processing Unit, are not both described in this document. For detail description of standard UVC control, please refer to [6.1](#).

For integrating with 3rd UVC software more easily, the camera control function which UVC specification has been defined, ex. exposure control, PTZ control, camera firmware should comply with UVC specification first as far as possible.

2. Vendor ID / Product ID

| Model | Vendor Id | Product Id |
|----------------|-----------|------------|
| PTC310HWV2 | 0x2574 | 0x055A |
| MD330U/MD330UI | 0x2574 | 0x0559 |

3. Class-Specific Requests

3.1 Control Requests

| Request Type | Request | Value | Index | Length | Data |
|--------------|----------|-------------------|--------------------------------------------------------|-------------|--------------|
| 0x21 | SET_CUR | | | | |
| 0xA1 | GET_CUR | Control Selectors | Unit or Terminal ID and Interface, retrieved from GUID | Data Length | Data Content |
| | GET_MIN | | | | |
| | GET_MAX | | | | |
| | GET_RES | | | | |
| | GET_LEN | | | | |
| | GET_INFO | | | | |
| | GET_DEF | | | | |



3.2 Requests

| Request | Value | Description | |
|----------|-------|-----------------------------------------------------------------------------------|------------------------------------|
| GET_CUR | 0x81 | Returns the current state of the streaming interface. | |
| GET_MIN | 0x82 | Returns the minimum value for negotiated fields. | |
| GET_MAX | 0x83 | Returns the maximum value for negotiated fields. | |
| GET_RES | 0x84 | Return the resolution of each supported field in the Probe/Commit data structure. | |
| GET_LEN | 0x85 | Returns the length of the Probe data structure. | |
| GET_INFO | 0x86 | Queries the capabilities and status of the Control. | |
| | | D0: 0/1 Support Get value requests | D1: 0/1 Support Set value requests |
| | | D2: 0/1 Disabled due to automatic mode | D3: 0/1 Autoupdate Control |
| | | D4: 0/1 Asynchronous Control | D5 – D7 Reserved |
| GET_DEF | 0x87 | Returns the default value for the negotiated fields. | |
| SET_CUR | 0x01 | Sets the streaming interface Probe state. | |

3.3 Unit or Terminal ID and Interface

| Control | GUID | Index (optional) |
|-------------------------|--------------------------------------|------------------|
| Camera Terminal Control | Standard | 0x0001 |
| Process Unit Control | Standard | 0x0002 |
| AVer XU1 | 366966CB-266E-47A0-8451-96ECF60330D6 | 0x0005 |
| AVer XU2 | 36693AD0-130B-11E5-B939-0800200C9A66 | 0x0006 |
| AVer XU3 | 36692875-1BA4-4D5B-BF91-CA2965B36DFE | 0x0007 |
| AVer XU5 | 36694F5D-E1EE-4A73-9B9C-08393E01FBFD | 0x000C |
| AVer XU6 | 36696FB5-0FB3-4843-AA6B-E4780B5BBFF5 | 0x000D |



4 Video

4.1 Extension Unit – AVer XU1

4.1.1 GUID {366966CB-266E-47A0-8451-96ECF60330D6}

4.1.2 AVer XU1 Selectors

| Control Selector | Value |
|----------------------|-------|
| UVCX_UCAM_NONE | 0x00 |
| UVCX_UCAM_FLIP | 0x0f |
| UVCX_UCAM_MIRROR | 0x10 |
| UVCX_UCAM_PRESET | 0x12 |
| UVCX_UCAM_FW_VERSION | 0x14 |

4.1.3 Flip Control

| Control Selector | | UVCX_UCAM1_FLIP | | |
|--------------------|-------|----------------------------------------------------------------|---------|-----------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bFlip | 1 | Boolean | 0: OFF 1: ON |

4.1.4 Mirror Control

| Control Selector | | UVCX_UCAM1_MIRROR | | |
|--------------------|---------|----------------------------------------------------------------|---------|-----------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bMirror | 1 | Boolean | 0: OFF 1: ON |



4.1.5 Preset Control

| Control Selector | | UVCX_UCAM1_PRESET | | |
|--------------------|--------------|----------------------------------------------------------------|--------|--------------------------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 3 | | |
| Offset | Field | Size | Value | Description |
| 0 | bSaveRestore | 1 | Number | 0: save 1: restore 2: clear |
| 1 | wPresetId | 2 | Number | Preset Id (0~n), n depends on model. |

4.1.6 Firmware Version

| Control Selector | | UVCX_UCAM1_FW_VERSION | | |
|--------------------|---------|----------------------------|--------|------------------|
| Mandatory Requests | | GET_CUR, GET_INFO, GET_RES | | |
| wLength | | 32 | | |
| Offset | Field | Size | Value | Description |
| 0 | Ver[32] | 32 | String | Firmware Version |



4.2 Extension Unit – AVer XU2

4.2.1 GUID {36693AD0-130B-11E5-B939-0800200C9A66}

4.2.2 AVer XU2 Selectors

| Control Selector | Value |
|-----------------------------------------|-------|
| UVCX_UCAM2_NONE | 0x00 |
| UVCX_UCAM2_WHITE_BALANCE_COMPONENT | 0x07 |
| UVCX_UCAM2_AUTO_WHITE_BALANCE_COMPONENT | 0x08 |
| UVCX_UCAM2_WHITE_BALANCE_ONEPUSH | 0x1D |

4.2.3 White Balance Component

| Control Selector | | UVCX_UCAM2_WHITE_BALANCE_COMPONENT | | |
|-------------------------------------------------------------------------|--------|----------------------------------------------------------------|--------|--------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 4 | | |
| Offset | Field | Size | Value | Description |
| 0 | wBgain | 2 | Number | B gain value |
| 1 | wRgain | 2 | Number | R gain value |
| Only Manual mode(UVCX_UCAM2_AUTO_WHITE_BALANCE_COMPONENT = 6) can setup | | | | |

4.2.4 Auto White Balance Component

| Control Selector | | UVCX_UCAM2_AUTO_WHITE_BALANCE_COMPONENT | | |
|--------------------|-----------|----------------------------------------------------------------|--------|-------------------------------------------------------------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | dCompMode | 1 | Number | 0: AUTO 1: ATW 2: Indoor 3: Outdoor 4: OnePush 6: Manual |

4.2.5 White Balance OnePush

| Control Selector | | UVCX_UCAM2_WHITE_BALANCE_ONEPUSH | | |
|-------------------------------------------------------------------------|----------|----------------------------------------------------------------|--------|-------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bTrigger | 1 | Number | 1: Trigger |
| Only Manual mode(UVCX_UCAM2_AUTO_WHITE_BALANCE_COMPONENT = 4) can setup | | | | |



4.3 Extension Unit – AVer XU3

4.3.1 GUID {36692875-1BA4-4D5B-BF91-CA2965B36DFE}

4.3.2 AVer XU3 Selectors

| Control Selector | Value |
|------------------------------|--------------|
| UVCX_UCAM3_NONE | 0x00 |
| UVCX_UCAM3_USB_SPEED | 0x01 |
| UVCX_UCAM3_UVC_EZOOM_SPEED | 0x03 |
| UVCX_UCAM3_FOCUS_ONE_TRIGGER | 0x11 |
| UVCX_UCAM3_IP_ADDRESS | 0x0C |



4.3.3 USB Speed

| Control Selector | | UVCX_UCAM3_USB_SPEED | | |
|--------------------|-----------|-------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|
| Mandatory Requests | | GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bUsbSpeed | 1 | Signed number | 0: USB device not connected. 1: USB full speed 2: High speed 3: Super speed |

4.3.4 Ezoom Speed

| Control Selector | | UVCX_UCAM3_UVC_EZOOM_SPEED | | |
|--------------------|-------------|----------------------------------------------------------------|---------------|--------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bEzoomSpeed | 1 | Signed number | 0: Slow 1: Fast |

4.3.5 Focus one trigger

| Control Selector | | UVCX_UCAM3_FOCUS_ONE_TRIGGER | | |
|--------------------|-------|----------------------------------------------------------------|---------|-----------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bData | 1 | Boolean | 1: Trigger once |

4.3.6 IP Address

| Control Selector | | UVCX_UCAM3_IP_ADDRESS | | |
|--------------------|------------|----------------------------------------------------------------|--------|-----------------------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bIpAddress | 32 | String | String of IP address, end with \0 |

4.4 Extension Unit – AVer XU5

4.4.1 GUID {36694F5D-E1EE-4A73-9B9C-08393E01FBFD}



4.4.2 AVer XU5 Selectors

| Control Selector | Value |
|------------------------------------|-------|
| UVCX_UCAM5_NONE | 0x00 |
| UVCX_UCAM5_AUDIO_VOLUME | 0x03 |
| UVCX_UCAM5_UVC_PAN_SPEED | 0x09 |
| UVCX_UCAM5_UVC_TILT_SPEED | 0x0A |
| UVCX_UCAM5_UVC_PRESET_SPEED | 0x0B |
| UVCX_UCAM5_UVC_FREEZE_WHILE_PRESET | 0x0C |
| UVCX_UCAM5_UVC_FACTORY_RESET | 0x15 |
| UVCX_UCAM5_UVC_MODEL_NAME | 0x18 |
| UVCX_UCAM5_UVC_SERIAL_NUM | 0x19 |
| UVCX_UCAM5_UVC_ETH_MAC_ADDR | 0x1A |
| UVCX_UCAM5_UVC_PTZ_GO_HOME | 0x1B |

4.4.3 Audio Volume

| Control Selector | | UVCX_UCAM5_AUDIO_VOLUME | | |
|--------------------|-----------|----------------------------------------------------------------|---------------|--------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bAudioVol | 1 | Signed number | 0~10: Volume value |

4.4.4 Pan Speed

| Control Selector | | UVCX_UCAM5_UVC_PAN_SPEED | | |
|--------------------|-----------|----------------------------------------------------------------|--------|-----------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bPanSpeed | 1 | Number | Pan speed value |

4.4.5 Tilt Speed

| Control Selector | | UVCX_UCAM5_UVC_TILT_SPEED | | |
|--------------------|------------|----------------------------------------------------------------|--------|------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bTiltSpeed | 1 | Number | Tilt speed value |



4.4.6 Preset Speed

| Control Selector | | UVCX_UCAM5_UVC_PRESET_SPEED | | |
|--------------------|--------------|----------------------------------------------------------------|--------|--------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bPresetSpeed | 1 | Number | Preset speed value |

4.4.7 Video Freeze while Preset

| Control Selector | | UVCX_UCAM5_UVC_FREEZE_WHILE_PRESET | | |
|--------------------|---------------|----------------------------------------------------------------|---------|-----------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bPresetFreeze | 1 | Boolean | 0: Off 1: On |

4.4.8 Factory Reset

| Control Selector | | UVCX_UCAM5_UVC_FACTORY_RESET | | |
|--------------------|---------------|----------------------------------------------------------------|---------------|-------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bFactoryReset | 1 | Signed number | 1: Execute |

4.4.9 Model Name

| Control Selector | | UVCX_UCAM5_UVC_MODEL_NAME | | |
|------------------------------------------------------------------------------|-------------|-------------------------------------------------------|--------|-----------------------------------|
| Mandatory Requests | | GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 64 | | |
| Offset | Field | Size | Value | Description |
| 0 | baModelName | 64 | String | String of model name, end with \0 |
| Maximum string length is 63. Please use GET_LEN to get actual string length. | | | | |

4.4.10 Serial Number

| Control Selector | | UVCX_UCAM5_UVC_SERIAL_NUM | | |
|--------------------|--|-------------------------------------------------------|--|--|
| Mandatory Requests | | GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 64 | | |



| Offset | Field | Size | Value | Description |
|------------------------------------------------------------------------------|-------------|------|--------|--------------------------------------|
| 0 | baSerialNum | 64 | String | String of serial number, end with \0 |
| Maximum string length is 63. Please use GET_LEN to get actual string length. | | | | |

4.4.11 Ethernet MAC Address

| Control Selector | | UVCX_UCAM5_UVC_ETH_MAC_ADDR | | |
|------------------------------------------------------------------------------|--------------|-------------------------------------------------------|--------|---------------------------------------------|
| Mandatory Requests | | GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 64 | | |
| Offset | Field | Size | Value | Description |
| 0 | baEthMacAddr | 64 | String | String of Ethernet MAC address, end with \0 |
| Maximum string length is 63. Please use GET_LEN to get actual string length. | | | | |

4.4.12 PTZ Go Home

| Control Selector | | UVCX_UCAM5_UVC_PTZ_GO_HOME | | |
|--------------------|------------|----------------------------------------------------------------|---------------|-------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bPtzGoHome | 1 | Signed number | 1: Execute |

4.5 Extension Unit – AVer XU6

4.5.1 GUID {36696FB5-0FB3-4843-AA6B-E4780B5BBFF5}

4.5.2 AVer XU6 Selectors

| Control Selector | Value |
|---------------------------------|-------|
| UVCX_UCAM6_NONE | 0x00 |
| UVCX_UCAM6_NOISE_SUPPRESSION | 0x02 |
| UVCX_UCAM6_AUDIO_BEAMFORMING | 0x03 |
| UVCX_UCAM6_LED_CONTROL | 0x04 |
| UVCX_UCAM6_IRCUT_FILTER_CONTROL | 0x05 |
| UVCX_UCAM6_IRCUT_SENSITIVITY | 0x06 |

4.5.3 Noise Suppression

| Control Selector | | UVCX_UCAM6_NOISE_SUPPRESSION | | |
|--------------------|-------------------|----------------------------------------------------------------|--------|--------------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bNoiseSuppression | 1 | Signed | 0: noise suppression off |



| | | | | |
|--|--|--|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | number | 1: noise suppression on For S331: 0: noise suppression off 1: ON: DSP mode 2: ON: AI NR mode 3: ON: AI NR + Beamforming 4: ON: AI NR enhanced + Beamforming |
|--|--|--|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

4.5.4 Audio Beamforming

| Control Selector | | UVCX_UCAM6_AUDIO_BEAMFORMING | | |
|------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bAdoBeamForming | 1 | Number | 0: BF angle 30 degree 1: BF angle 50 degree 2: BF angle 70 degree 3: BF angle 90 degree 4: BF angle 110 degree 5: BF angle 130 degree |
| Only valid when Noise Suppression mode is 3 or 4. Please refer to UVCX_UCAM6_NOISE_SUPPRESSION . | | | | |

4.5.5 LED Control

| Control Selector | | UVCX_UCAM6_LED_CONTROL | | |
|--------------------|---------------|----------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 4 | | |
| Offset | Field | Size | Value | Description |
| 0 | bLedCtrlMode | 1 | Number | 0x00: Auto control mode 0x01: Manuel control mode |
| 1 | bLedPosition | 1 | Number | 0x00: Top 0x01: Bottom 0x02: All (Top + Bottom) |
| 2 | bLedColor | 1 | Number | LED Color 0x00: Off 0x01: Blue 0x02: Orange 0x03: Red 0x04: Purple |
| 3 | bLedBlinkMode | 1 | Number | LED Blink Mode (blink interval) 0x00: Steady 0x01: Very Slow (2 secs) |



| | | | | |
|------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------|
| | | | | 0x02: Slow (1 sec) 0x03: Normal (500 msec) 0x04: Quick (200 msec) 0x05: Very Quick (100 msec) |
| Set bLedCtrlMode to 0 will ignore bLedPosition/bLedColor/bLedBlinkMode parameters. | | | | |

4.5.6 IRCut Filter

| Control Selector | | UVCX_UCAM6_IRCUT_FILTER_CONTROL | | |
|--------------------|------------------|----------------------------------------------------------------|--------|-------------------------------------------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bIRCutFilterMode | 1 | Number | 0x00: Day mode 0x01: Night mode 0x02: Auto mode |

4.5.7 IRCut Filter Sensitivity

| Control Selector | | UVCX_UCAM6_IRCUT_SENSITIVITY | | |
|-------------------------------------------------|-------------------|----------------------------------------------------------------|--------|-----------------------------------------|
| Mandatory Requests | | SET_CUR, GET_CUR, GET_INFO, GET_DEF, GET_MIN, GET_MAX, GET_RES | | |
| wLength | | 1 | | |
| Offset | Field | Size | Value | Description |
| 0 | bIRCutSensitivity | 1 | Number | 0x00: Low 0x01: Middle 0x02: High |
| Only valid when IRCut Filter mode is Auto mode. | | | | |

5 Reference

- 5.1 USB Video Class v1.1
<https://usb.org/document-library/video-class-v11-document-set>
- 5.2 Device Class Definition for HID 1.11
<https://www.usb.org/document-library/device-class-definition-hid-111>
- 5.3 HID Usage Tables 1.12
<https://usb.org/document-library/hid-usage-tables-112>
- 5.4 Audio Device Class Spec for Basic Audio Devices v1.0
<https://usb.org/document-library/audio-device-class-spec-basic-audio-devices-v10-and-adopters-agreement>