

# Angekis

[sales@angeks.com](mailto:sales@angeks.com)

[www.angekis.com](http://www.angekis.com)

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# Advantages



## Leaders in USB Video Conferencing

Way back in 2011, our team helped pioneer one of the first PTZ video conferencing cameras to hit the market. Since then our team has continued to pave the way advancing technology in this industry, integrating and perfecting advanced features such as autofocus, automatic exposure, automatic white balance, and more into UVC and associated devices. In 2015, we decided to spin off and start our own brand: Angekis.



## Class Leading Warranty

Angekis is built to last. We have the utmost confidence in our design and manufacturing, and back up every product with a class leading 3 year manufacturer's warranty. Your equipment is a long term investment, and when you choose Angekis you can rest assured - we've got you covered.



## Award Winning Range

The original Saber camera won Best in Show from the 2016 ISE Expo in Amsterdam - the world's largest AV industry conference. That meant taking on every world famous brand in the industry and coming out on top. Our technology won another award in 2018 with the introduction of the revolutionary Saber Auto Pilot, recognizing its next generation auto tracking as Best in Class.



## Easy Integration

Angekis products are tested for compatibility with a wide range of hardware and software. Whether you prefer Skype, Zoom, MS Teams, Tencent Meeting, Google Hangouts, or any other videoconferencing solution, chances are that Angekis equipment offers plug and play compatibility. And if you're not sure? Just contact us and we'll help you test it.



## Complete Solution

Angekis offers a range of products with versatile integration capabilities. Whether you want something simple like video, control, and power through a single USB 3.0 cable (Saber Light), or to daisy chain a string of super high performance cameras into an advanced control console over RS232 (Saber 4K+), or just need a reliable speakerphone that sounds great (Cleartalk Wireless ASP-04) - we have a solution for you.



# Saber X

ANG2-31UHD-01



## Features and Specifications

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- 4K Ultra High Definition video, running at frame rates up to 60fps.
- 30X Optical Zoom.
- LAN / 3G-SDI / HDMI 2.0 / USB 2.0 simultaneous output.
- Built-in advanced Autotracking function.
- Smooth and Silent PTZ Movement.
- 128 Presets with programmable settings.
- Supports SRT.
- Supports RTMP.
- Supports PoE+.
- High quality Line-in audio.
- Smart Web UI.
- Field upgradeable firmware.
- NDI version available (NDI<sup>®</sup>|HX).

# Product Highlights

## Delivering High-End Features for Live Broadcasting.

The Saber X delivers ultra high end performance and features for your most demanding productions. With True 4K video running at up to 60 frames per second, a 30X zoom factor and a full range of connectivity options. Enjoy ultimate performance from Angekis. The 12MP SONY image sensor and 30X zoom lens lets you capture every detail with incredible quality, even at extreme distances. The PTZ movement itself is smooth and quiet, while special focusing algorithms ensure accuracy and consistency - even while moving and zooming. With IP, HDMI 2.0, 3G-SDI, and USB 2.0 ports capable of running simultaneous video out, this is the ultimate camera for professional livestreaming and recording.

### True 4K Video

The Saber X offers 4K Ultra High Definition video, running at framerates up to 60fps. Its 1/1.8-inch, 12MP SONY CMOS Image Sensor is state of the art, and ensures high resolution, excellent color, and smooth video in all kinds of situations.



### 30X Optical Zoom

Enjoy crystal clear video at extreme ranges. Perfect for the largest and most demanding recording environments, 30X Optical Zoom gets you up close and personal while maintaining lossless image quality.



### Full Connectivity

A full range of connectivity options (IP / 3G-SDI / HDMI 2.0 / USB 2.0) gives you the versatility you need, in both production and installation. Add in simultaneous output capabilities for the ultimate livestreaming experience.



# Product Specifications

Model	Saber X (ANG2-31UHD-01)		
Sensor	Sony 1/1.8 inch 12MP CMOS sensor		
Video Format	HDMI (v2.0)	3840*2160P60/59.94/50/30/29.97/25 1920*1080P60/59.94/50/30/29.97/25/24/23.98 1920*1080I60/59.94/50; 1280*720P60/59.94/50/30/29.97/25	
	3G-SDI	1920*1080P60/59.94/50/30/29.97/25/24/23.98 1920*1080I60/59.94/50 1280*720P60/59.94/50/30/29.97/25	
	USB Type-C	MJPG, H.264: 3840*2160P30; 1920*1080P30; 1280*720P30; 1024*576P30; 800*448P30 NV12: 1920*1080P10; 1280*720P25; 1024*576P30; 800*448P30	
	IP	3840*2160P15-60; 1920*1080P15-60; 1280*720P15-60; 1024*576P15-60; 640*360P15-30	
Lens	f 6.91 ~ 214.64mm (30X), F1.35- 4.6		
White Balance	Auto / Manual / ATW / Push / Indoor / Outdoor / Color Temperature		
Exposure	Auto / Manual / Shutter / Iris / Bright		
Supported Protocol	HTTP, RTSP, RTMP, Onvif, Visca TCP, Visca UDP, Visca over IP, Visca Serial, Pelco-P, Pelco-D, SRT Compatible		
Presets	Remote: 10; VISCA: 128; Accuracy: 0.1°		
Zoom	30X Optical Zoom	Control Port	RS232 IN, RJ45
View Angle	60°(Far)-2°(Near)	Focus	Auto / Manual
Rotation Angle	Pan: -170° ~ +170°; Tilt: -30° ~ +90°	Iris	Auto / Manual
Rotation Speed	Pan: 0°-80°/s ; Tilt: 0°-60°/s	2D/3D DNR	Supported
Video Interface	HDMI, SDI, RJ45, USB Type-C	Gamma	Supported
Network Speed	1000M	WDR	Supported
Video Encoding	H264/H265	BLC	Supported
Bit Rate Control	Variable Bit Rate, Constant Bit Rate	Minimum Lux	0.1lux
Video Bit Rate	1024Kbps-61440Kbps	Anti Flicker	OFF/50Hz/60Hz
POE+	Supported	Pan Tilt Flip	Supported
Daisy Chain	Supports RS232 Serial Daisy Chain	Input Voltage	DC12V/POE(IEEE802.3af)
Net Weight	1.9 KG	Dimension	220mm × 190mm × 193.5mm

# Saber AT

ANG2-20FHD-AT



## Features and Specifications

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- Built-in advanced Autotracking function.
- 1080p @ 60fps FHD.
- 20X Optical Zoom + 4X Digital Zoom.
- 60° FOV.
- Supports LAN/3G-SDI/HDMI/USB simultaneously output.
- Smooth and Silent PTZ Movement.
- Up to 128 presets.
- Supports RTMP and SRT.
- NDI version available (NDI®|HX).
- Supports Line-in audio.

# Product Highlights

## The all new Saber AT

It takes the best features of the Saber series and upgrades it with advanced on-board autotracking capabilities. No need for extra drivers, just plug and play - you can enjoy the smart autotracking experience immediately.

### 1080p @ 60fps

The Saber AT runs video at up to 1080p Full HD at 60 frames per second. This smooth, high resolution video can run through the USB, HDMI, SDI, and LAN connections simultaneously, giving your livestreaming or recorded video excellent definition, superb image quality, and much needed flexibility.



### 20x Optical Zoom

20x Optical Zoom gets you up close and personal. Even in the largest event spaces, the Saber AT's zoom features will give you the power to see everything with smooth motion, accuracy, and precision.



### Advanced Autotracking

The Saber AT comes with advanced autotracking capabilities onboard. Using state of the art algorithmic processing to analyze shape and motion, our smart technology creates a seamless autotracking experience.



# Product Specifications

Model	Saber AT (ANG2-20FHD-AT)		
Video Format	HDMI	1920*1080P60/59.94/50/30/29.97/25/24/23.98 1920*1080I60/59.94/50 1280*720P60/59.94/50/30/29.97/25	
	SDI	1920*1080P60/59.94/50/30/29.97/25/24/23.98 1920*1080I60/59.94/50 1280*720P60/59.94/50/30/29.97/25	
	USB 2.0	MJPG, H.264, HEVC: 1920*1080P60; 1280*720P60; 1024*576P60; 800*448P60 NV12, YUY2: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30	
	RJ45	1920*1080P15-60; 1280*720P15-60; 1024*576P15-60; 640*360P30	
Control Port	RS232, RS485 (Serial Visca, Pelco-P/D), RJ45 (VISCA over IP), USB-C		
White Balance	Auto / Manual / Auto Tracking / Push / Indoor / Outdoor / Color Temperature		
Lens	f4.9 ~ 98mm(20x), F1.5 - 3.0. View Angle: 60°(Far)-3.2°(Near)		
IP Protocol	HTTP, RTSP, RTMP, ONVIF, Visca TCP, Visca UDP, Visca over IP, Visca Serial, Pelco-P, Pelco-D, SRT Compatible, NDI® HX Version Available		
Preset	Remote controller: 10; RS232: 128; Accuracy: 0.1°		
Video Interface	HDMI, SDI, RJ45(NDI® HX), USB Type-C	Sensor	1/2.8 inch 2.4MP CMOS sensor
Rotation Angle	Pan: -170° ~ +170°; Tilt: -30° ~ +90°	Rotation Speed	Pan: 0.1°-120°/s; Tilt: 0.1°-80°/s
Exposure	Auto / Manual / Iris / Bright	Network Speed	1000M
Iris	Auto / Manual	Video Encoding	H.264/H.265(default: H.264)
POE	Supported	Bit Rate Control	Variable Bit Rate, Constant Bit Rate
Gamma	Supported	Video Bit Rate	1024Kbps-61440Kbps
WDR	Supported	Focus	Auto / Manual
BLC	Supported	2D/3D DNR	Supported
Daisy Chain	Support RS232 serial daisy chain	Minimum Lux	0.01 Lux
Anti Flicker	OFF/50Hz/60Hz	Dimension	220mm x 190mm x 173mm
Pan Tilt Flip	Supported	Net Weight	1.47 KG
Input Voltage	DC12V, POE+(IEEE802.3at)		

# Saber 4K+

ANG2-12UHD-01



## Features and Specifications

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- True 4K UHD video output, up to 60fps.
- 12X Optical Zoom + 4X Digital Zoom.
- 80.5° FOV.
- Built-in advanced Autotracking function.
- LAN, HDMI, 3G-SDI, USB-C simultaneous output.
- Smooth and silent PTZ movement.
- Up to 128 presets.
- Fast video format switch.
- Supports RTMP and SRT.
- Supports PoE+.
- Supports Line-in audio.



# Product Highlights

## Professional performance with an advanced 4K, 1/2.8 inch, 8.42MP image sensor.

Professional IP live-streaming 4K camera with 12X optical zoom, a wide 80.5° FOV, and support for 4K video @ 60fps.



**4K @ 60fps**

The Saber 4K+ runs 4K video at 60 frames per second over HDMI and IP Connections. Additionally, the USB output can now run 4K video at 30fps (Up from 1080p). Enjoy Ultra High Definition, Ultra Fast, and Ultra Smooth Video.



**80.5°**



**12x Optical Zoom**

12x Optical + 4x Digital zoom gets you up close and personal. Even in the largest conference rooms, the Saber 4K+'s zoom features will give you the power to see everything with smooth motion, accuracy, and precision.



**Connectivity**

With Line in Audio, USB-C, and new simultaneous output options, the Saber 4K+ comes stock with everything you need to integrate seamlessly into your video production setup. Add in new OSD Menu options for granular control.

# Product Specifications

Model	Saber 4K+ (ANG2-12UHD-01)		
Video Format	HDMI (v2.0)	3840*2160P60/59.94/50/30/29.97/25; 1920*1080P60/59.94/50/30/29.97/25/24/23.98; 1920*1080i60/59.94/50; 1280*720P60/59.94/50/30/29.97/25	
	3G-SDI	1920*1080P 60/59.94/50/30/29.97/25/24/23.98; 1920*1080i 60/59.94/50; 1280*720P 60/59.94/50/30/29.97/25	
	USB-C	MJPEG, H.264; 3840*2160P30; 1920*1080P30; 1280*720P30; 1024*576P30; 800*448P30 NV12; 1920*1080P10; 1280*720P25; 1024*576P30; 800*448P30	
	IP	3840*2160P15-60; 1920*1080P15-60; 1280*720P15-60; 1024*576P15-60; 640*360P15-30	
White Balance	Auto / Manual / ATW / Push / Indoor / Outdoor / Color Temperature		
Supported Protocol	TCP/IP, HTTP, RTSP, DHCP, RTMP, Onvif (2.4), SRT, Visca over IP (TCP & UDP), HTML5, VISCA, Pelco P, Pelco D, SRT Compatible		
Lens	f4.9 - 98mm(20x), F1.5 - 3.0, View Angle: 60°(Far)-3.2°(Near)		
Control Port	RS232, RS485 (Serial VISCA, Pelco P/D), RJ45 (VISCA over IP), USB-C (Compatible with USB3.0 (UVC1.5) & USB2.0 (UVC1.1))		
Exposure	Auto/Manual/Bright/Shutter/Iris		
Presets	Remote: 10; VISCA: 128; Accuracy: 0.1°	Rotation Angle	Pan: -170° - +170°; Tilt: -30° - +90°
Rotation Speed	Pan: 0°-120°/s ; Tilt: 0°-80°/s	Video Interface	HDMI (V2.0), SDI, RJ45, USB-C
Sensor	1/2.8 inch 8.42MP CMOS sensor	Network Speed	1000M
Focus	Auto / Manual	Video Encoding	NV12, YUYV, MJPG, H264/H265, IP
Iris	Auto / Manual	Bit Rate Control	Variable Bit Rate, Constant Bit Rate
2D/3D DNR	Supported	Video Bit Rate	1024Kbps-20480Kbps
Gamma	Supported	POE+	Supported
WDR	Supported	Daisy Chain	Supports RS232 Serial Daisy Chain
BLC	Supported	Input Voltage	DC12V/POE(IEEE802.3af)
Minimum Lux	0.1lux	Dimension	220mm × 190mm × 173mm
Anti Flicker	OFF/50Hz/60Hz	Net Weight	1.47 KG
Pan Tilt Flip	Supported		

# Saber Plus

U3D-12FHD6



## Features and Specifications

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- Video Format: 1920x1080P @ 60fps (Max).
- Video Output: USB3.0, HDMI, SDI, IP.
- Sensor: 1/2.8 inch 8.42MP CMOS sensor.
- Lens: f3.9-6.1mm(12x Zoom), F1.8-2.8.
- 72.5° HFOV.
- Rotation Angle: Pan rotation:  $\pm 170^\circ$ ; Tilt rotation:  $-30^\circ \sim +90^\circ$ .
- Wall mount included; ceiling mount available.
- Pan speed:  $0.1^\circ \sim 120^\circ/s$ ; Tilt speed:  $0.1^\circ \sim 80^\circ/s$ .
- Presets: 10 via IR remote setting, 128 over VISCA, preset accuracy:  $0.1^\circ$ .
- Supports Auto/Manual White Balance, Auto/Manual Exposure (Iris, Shutter).
- Control signal port: RS-232, USB3.0, LAN.
- Max consumption: 24W.
- Working temperature:  $-5 \sim 45^\circ\text{C}$ , Storage temperature:  $-20 \sim 60^\circ\text{C}$
- Net weight: 1.47KG
- Dimensions: 220x190x173 mm

# Product Highlights

## Winner of Best USB PTZ Camera Award at the 2016 ISE Expo in the Netherlands.

The first direct connect USB 3.0 HD PTZ video conference camera with desktop NECC app control. The Saber Plus offers superior performance at an unparalleled price.

- Sleek and intelligent design.
- Crystal clear HD image quality via IP, HDMI, SDI and USB 3.0.
- Low light ability. Excellent image quality even at 0.01 lux.
- IP, HDMI & USB3.0 simultaneous output.
- Far End Camera Control (FECC) via USB 3.0.
- VISCA control.
- Utilizing belt drive technology the twin motors of the PTZ are ultra quiet, smooth and provide fast movement.
- 2D and 3D DNR offers exceptional video quality and automatic lighting adjustment.
- Privacy Protection: The lens turns around and angles down upon power off.
- Reverse mountable, tripod screw thread at the bottom.

# Product Specifications

Model	Saber Plus (U3D-12FHD6)		
Video Format	HDMI (V1.4)	1920*1080p @ 60/50/30/25/59.94/29.97/24fps 1920*1080i @ 60/50fps 1280*720p @ 60/50/30/25/59.94/29.97fps	
	SDI	1920*1080P 60/50/30/25/59.94/29.97 1920*1080i 60/50 1280*720P60/50/30/25/59.94/29.97	
	USB	USB 2.0: 1280*720p @ 25fps ; 1024*576p @ 30fps; 960*540p @ 30fps; 640*360p @ 30fps ; 512*288p @ 30fps; 352*288p @ 30fps USB 3.0: 1920*1080p @ 60/50/30/25fps; 1280*720p @ 25fps; 1024*576p @ 30fps	
	IP	1920*1080 @ 1-60 ( Main Stream ) 1280*720 , 704*576 , 640*480 , 352*288 (Substream)	
Video Interface	HDMI ( V1.4 ) , SDI, RJ45, USB 3.0(Compatible with USB2.0)		
Control Port	RS232, RS485 (Serial VISCA, Pelco-P/D), RJ45 (VISCA over IP), USB3.0 (UVC1.5), USB2.0 (UVC1.1)		
Lens	f3.92- 47.32mm(12x), F1.8- 2.8, View Angle: 72.5°(Far) - 6.3°(Near)		
IP Protocol	TCP/IP, HTTP, DHCP, RTSP, RTMP, Onvif 2.0, VISCA over IP (TCP&UDP), SRT Compatible		
White Balance	Auto/Indoor/Outdoor/Manual/Outauto/Sodium Lamp Auto/Sodium Lamp		
Sensor	1/2.8 inch 8.42MP CMOS sensor	Rotation Angle	Pan: -170° - +170°; Tilt: -30° ~ +90°
Exposure	Auto/Manual/Bright/Shutter/Iris	Preset	Remote controller: 10; RS232: 128; Accuracy: 0.1°
Focus	Auto / Manual	Rotation Speed	Pan: 0°-120°/s ; Tilt: 0°-80/s
Iris	Auto / Manual	Network Speed	1000M
Minimum Lux	0.01 lux	Video encode	IP--H.264/H.265 (default: H.264)
Gamma	Supported	Bit Rate Control	Variable Bit Rate, Constant Bit Rate
WDR	Supported	Video Bit Rate	1024Kbps-40960Kbps
BLC	Supported	Pan Tilt Flip	Supported
2D Noise Reduction	Supported	POE	Supported
3D Noise Reduction	Supported	Daisy Chain	Supports RS232 serial daisy chain
Anti Flicker	OFF/50Hz/60Hz	Dimension	220mmx190mmx173mm
Input Voltage	DC12V/POE	Mount	Reverse Mountable, Wall Mountable
Net Weight	1.47 KG		

# Saber IP20X

IP-20FHD6-BM



## Features and Specifications

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- USB 3.0 & HDMI & IP & SDI simultaneous output.
- Zoom: 20x Optical Zoom + 2x Digital Zoom.
- High resolution video: 1920x1080p @ 60fps.
- 60° HFOV.
- Ultra smooth PTZ mechanism.
- Accurate PT motor control.
- Up to 128 presets.
- Effective RS232/485 serial control.
- WDR, 3D-noise reduction function.
- Mounts: Wall mount included, Ceiling mount available.
- Sony VISCA and Pelco P/D protocol controls.

# Product Highlights

## The Livestreaming Camera with Versatility.

The Saber IP20X Full HD camera offers smooth pan and tilt movement with a powerful 20x zoom. With a versatile range of interface options and compatibilities, the Saber IP20X easily integrates into your broader A/V setup. Its capabilities give you the power to cover the largest conference rooms, lecture halls, and auditoriums with lightning fast video over IP.

- Full HD video: with advanced 1/2.8 inch, 2.4 MP sensor and high quality 20x lens.
- Fast switching between different video formats: 3 seconds or under.
- Fast and accurate autofocus.
- Easy firmware upgrade (field-upgradeable): no need to open the camera housing.
- USB 2.0 compatible.
- Daisy Chain function: Up to 7 devices with RS232.
- Compatible with the majority of video conferencing software (UVC1.1 protocol standard).
- Multi language OSD menu: supports English, Chinese, Russian, Spanish.

# Product Specifications

Model	Saber IP20X (IP-20FHD60)		
Video Format	HDMI (V1.4)	1920*1080p @ 60/50/30/25/59.94/29.97/24fps 1920*1080i @ 60/50fps 1280*720p @ 60/50/30/25/59.94/29.97fps	
	SDI	1920*1080p @ 60/50/30/25/59.94/29.97/24fps 1920*1080i @ 60/50/59.94fps 1280*720p @ 60/50/30/25/59.94/29.97fps	
	USB	USB 2.0: 1280*720p @ 25fps ; 1024*576p @ 30fps ; 960*540p @ 30fps; 640*360p @ 30fps ; 512*288p @ 30fps USB 3.0: 1920*1080p @ 60/50/30/25fps ; 1280*720p @ 60/50/30fps; 1280*720p @ 25fps ; 1024*576p @ 30fps	
	RJ45	1920*1080 @ 1-60fps ( Main Stream ) 1280*720@1-30 / 1027*576fps @ 1-30fps / 640*360 @ 1-30fps ( Sub stream )	
Lens	f4.9 ~ 98mm(20x), F1.5 - 3.0, View Angle: 60°(Far)-3.2°(Near)		
IP Protocol	TCP/IP, HTTP, DHCP, RTSP, RTMP, Onvif 2.4, VISCA over IP (TCP&UDP), SRT Compatible		
White Balance	Auto/Indoor/Outdoor/Manual/Outauto/Sodium Lamp Auto/Sodium Lamp		
Control Port	RS232, RS485 (Serial Visca, Pelco-P/D), RJ45 (VISCA over IP), USB3.0 (UVC1.5), USB2.0 (UVC1.1)		
Preset	Remote controller: 10; RS232: 128; Accuracy: 0.1°		
Zoom	20X Optical Zoom + 2X Digital Zoom	Video Interface	HDMI ( V1.4 ), SDI, LAN, USB 3.0, USB 2.0
Sensor	1/2.8 inch 2.4MP CMOS sensor	Rotation Angle	Pan: -170° ~ +170°; Tilt: -30° ~ +90°
Rotation Speed	Pan: 0°-120°/s ; Tilt: 0°-80 /s	Exposure	Auto/Manual/Bright/Shutter/Iris
Network Speed	1000M	Iris	Auto / Manual
Video Encoding	H.264/H.265(default: H.264)	POE	Supported
Bit Rate Control	Variable Bit Rate, Constant Bit Rate	Gamma	Supported
Video Bit Rate	0Kbps-15360Kbps	WDR	Supported
Focus	Auto / Manual	BLC	Supported
2D/3D DNR	Supported	Daisy Chain	Support RS232 serial daisy chain
Minimum Lux	0.01 Lux	Anti Flicker	OFF/50Hz/60Hz
Dimension	220mm x 190mm x 173mm	Pan Tilt Flip	Supported
Net Weight	1.47 KG	Input Voltage	DC12V/POE

# Product Specifications

# Saber U20

ANG2-20FHD-01

## Product Highlights

### Supports USB Type-C interface power supply.

- Zoom: 20x Optical Zoom & 12x Digital Zoom.
- HDMI output up to 1920x1080P @ 60fps Full HD.
- Smart USB 2.0 Type-C interface.
- Up to 128 presets.
- Supports RS232, RS485 serial control.
- Standard Sony VISCA and Pelco P/D protocol.
- Supports WDR, 3D-Noise Reduction functions.
- USB & HDMI simultaneous output, can set resolution independently.

Model	Saber U20 (ANG2-20FHD-01)		
Video Format	HDMI (v1.4)	1920*1080P60/59.94/50/30/29.97/25/24 1920*1080I60/59.94/50 1280*720P60/59.94/50/30/29.97/25	
	USB-C	MAX: MJPC: 1920*1080P60; 1280*960P60; 1280*720P60; 1024*768P60; 800*600P60; 640*480P30; 320*240P60 YUY2: 640*480P30; 320*240P30	
Lens	f4.9~98mm(20x), F1.5 - 3.0, View Angle: 60°(Far)-3.2°(Near)		
White Balance	Auto / Manual / ATW / Push / Indoor / Outdoor / Color Temperature		
Preset	Remote controller: 10; RS232: 128; Accuracy: 0.1°		
Control Port	RS232 (In), RS485 (Visca, Pelco-P/D), USB-C (Compatible with (UVC1.5), USB2.0 (UVC1.1))		
Exposure	Auto/Manual/Bright/Shutter/Iris		
Rotation Speed	Pan: 0°-120°/s ; Tilt: 0°-80°/s		
Rotation Angle	Pan: -170° ~ +170°; Tilt: -30° - +90°	Video Interface	HDMI ( v1.4), USB-C
Digital Zoom	12x	Iris	Auto / Manual
Video Encoding	MJPC, YUY2	POE	Supported
Gamma	Supported	WDR	Supported
Focus	Auto / Manual	BLC	Supported
2D DNR	Supported	3D DNR	Supported
Minimum Lux	0.01 Lux	Anti Flicker	OFF/50Hz/60Hz
Dimension	220mm x 190mm x 173mm	Pan Tilt Flip	Supported
Net Weight	1.47 KG	Power	DC12V
Power over USB-C	Supported	Sensor	1/2.8 inch 2.4MP CMOS sensor

# Saber Light

U3-5FHD6

## Product Highlights

**Everything you love about the Saber but at a lean, mean price. Can be powered solely through the USB 3.0 port.**

- The same amazing, award winning image quality as the rest of the original Saber Series.
- Power, Video, and Control over a single USB 3.0 (note: to achieve stable power supply via USB 3.0 cable, we suggest only using the 3m USB 3.0 cable supplied by the factory).
- Advanced DSP, 1/2.8 inch 5MP image sensor, and high quality 5x zoom, 90 degree FOV optical lens, provides fluid motion and a crystal clear image.
- 90° HFOV.
- 5x Optical Zoom + 2x Digital Zoom.
- Fast and accurate autofocus performance.
- Easy firmware upgrades.

## Product Specifications

Model	Saber Light (U3-5FHD6)		
Video Format	USB 2.0	1280*720p @ 25fps ; 1024*576p @ 30fps ; 960*540p @ 30fps ; 640*360p @ 30fps ; 512*288p @ 30fps ; 352*288p @ 30fps	
	USB 3.0	1920*1080p @ 60/50/30/25fps (USB3.0) ps 1280*720p @ 25fps 1024*576p @ 30fps	
Lens	3.1 -15.5mm(5x), F2 -2.8, Field of View: 90°(wide)-26.5°(tele)		
Pan/tilt Rotation	Pan:± 170°; Tilt:-30°~+90°; reverse mountable		
Presets	10 via IR remote setting, 128 via VISCA control, preset accuracy: 0.1°		
Control Port	RS232, RS485 (Serial VISCA, Pelco-P/D), USB3.0(UVC1.5), USB2.0(UVC1.1)		
White Balance	Auto / Manual / AutoTracking / OnePush / Indoor / Outdoor / Sodium Lamp / Fluorescent Lamp		
Input Voltage	5V 1000Ma (USB 3.0) 12V DC1A (Power Adapter)		
Video Interface	USB 3.0 (Compatible with USB 2.0)	Sensor	1/2.8 inch 5MP CMOS Sensor
Pan/tilt Speed	Pan: 0.1° - 120°/s; Tilt: 0.1°-80°/s	Focus	Auto/Manual
2D Noise Reduction	Supported	Iris	Auto/Manual
3D Noise Reduction	Supported	WDR	Supported
Gamma Setting	Supported	BLC	Supported
Mirror Image	Supported	Anti Flicker	OFF/50Hz/60Hz
Dimensions	220mm x 190mm x 173mm	Min. Lux	0.01 Lux
Mount	Reverse Mountable, Wall Mountable	Net Weight	1.47 KG

# Blade VS+

U2-10FHD3



## Features and Specifications

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- Zoom: 10x Optical Zoom & 12x Digital Zoom.
- USB & HDMI simultaneous output, can set resolution independently.
- HDMI output up to 1080p @ 60fps Full HD (1920x1080P60).
- Smart USB 2.0 Type-C interface.
- Up to 128 presets.
- Supports RS232, RS485 serial control.
- Standard Sony VISCA and Pelco P/D protocol.
- Supports WDR, 3D-Noise Reduction functions.
- Advanced ISP, 1/2.8 inch sensor and high quality 10x optical lens.
- Compatible with almost all video conferencing software (Uses the UVC1.5 Protocol Standard).
- Power via USB type-C port.



# Product Highlights

## A Leap Ahead

The new Blade VS+ delivers an amazing suite of features along with the superb optics you've come to expect from Angekis. Technical improvements and a class leading build quality complement the Blade's brilliantly sharp resolution and stunning color production, all at a groundbreaking price.

## Power over USB-C

The Blade VS+ now comes with a USB-C port (running USB 2.0) through which you can run power, video, and control. One plug to rule them all.



## 1080p @ 60 fps

The Blade VS+ runs video at up to 1080p Full HD at 60 frames per second. This smooth, high resolution video can run through HDMI and USB-C (USB2.0) connections, giving your livestreaming or recorded video excellent definition and superb image quality.



## 10x Optical + 12x Digital Zoom

With a 10x Optical and 12x Digital zoom, you can get right into the details, whether it be zooming into a presenter or an equation on a classroom whiteboard. Lossless zoom ensures no drop in image quality, meaning you'll have no problem telling if that's a  $\Delta$  or an  $\alpha$ .



# Product Specifications

Model	Blade VS+ (U2-10FHD3)		
Video Format	HDMI (v1.4)	1920*1080P60/59.94/50/30/29.97/25/24 1920*1080I60/59.94/50 1280*720P60/59.94/50/30/29.97/25	
	USB-C	MAX: MJPG: 1920*1080P60; 1280*960P60; 1280*720P60; 1024*768P60; 800*600P60; 640*480P30; 320*240P60 YUY2: 640*480P30; 320*240P30	
Lens	F4.7 ~ 47mm(10X), F1.8-14, HFOV: 62.5°(Wide)-6.43°(Tele)		
P/T Angle	Pan: ±170°; Tilt: -30° ~ +90°, Reverse Mountable		
P/T speed	Pan: 0.1°-120°/s; Tilt: 0.1°-80°/s		
Presets	10 via IR remote setting, 128 via VISCA control, preset accuracy: 0.1°		
Input Voltage	DC12V, Power over USB-C Supported		
Protocol	Serial VISCA, Pelco-P/D, UVCI1		
Video Interface	HDMI, USB-C	Sensor	1/2.8 inch, 2.4MP CMOS
Zoom	10x Optical + 12x Digital	Control Port	RS-232, USB-C
Min. Lux	0.01 lux	White Balance	Auto/Manual
Focus	Auto/Manual	Iris	Auto/Manual
WDR	Supported	BLC	Supported
2D/3D DNR	Supported	Working Temp	-10°C-50°C
Dimension	200mm x 143mm x 152mm	Net Weight	1.25KG

# Blade 4K

U3-UFHD36-IP



## Features and Specifications

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- 86.5° HFOV.
- 5x zoom at 4K + 15x zoom at 1080p over USB 3.0.
- Up to 4K resolution at 30fps and Full HD at 30fps.
- Video format: YUY2, MJPG.
- Video outputs: USB3.0.
- VISCA over RS232: 128 presets.
- ZoomRoom remote Controller supported.
- Anagekis near end on screen app control.
- IR remote control with 10 presets.
- RS232 joystick compatible.
- OSD settings menu via remote.
- Video mute control.
- Kensington lock hole.
- 3D noise reduction.
- Day/night vision switch.

# Product Highlights

## Breaking new ground in optics and performance.

The new Blade series delivers class leading optics and crystal clear, life-like video. Your next in person meeting will feel dull by comparison. We've delivered significant technological improvements including USB VISCA and UVC control options, as well as ZoomRoom controller support. A custom built NECC app rounds out the suite of control options. These are precision controls you can rely on.

### Dynamic Startup

The default position isn't for everyone. Dynamic startup allows you to change the camera's startup angle, setting the view right where you need it. A perfect solution for lectures.



### Ultra Optix

Ultra Optix Digital Noise Reduction (DNR) imaging technology reduces 3D video noise through the use of an innovative algorithm that filters out and corrects digital distortions. The result is a balanced image that renders with unrivalled clarity, sharpness, and definition - especially in low light situations.



# Product Specifications

Model	Blade 4K (U3-UFHD36)		
Resolution	MJPG (USB 3.0)	3840x2160p @ 30fps, 1080p @ 30fps, 720p @ 30fps, 640x480p @ 30fps	
	YUV	1080p 30/25fps, 720p 30/25fps, 640x480p 30fps	
Lens	F4.7~47mm(10x), F1.8-14, HFOV: 86.5°(Wide)-6.43°(Tele)		
P/T Rotation	Pan: ±170°; Tilt:-30°~+90°, Reverse Mountable		
P/T speed	Pan: 0.1°-120°/s; Tilt: 0.1°-80°/s		
Preset	10 via IR remote setting, 128 via VISCA control, preset accuracy: 0.1°		
Control	RS232, RS485(Serial Visca, Pelco-P/D), USB3.0(UVC1.5), USB2.0(UVC1.1)		
Dimension	200mm x 143mm x 152mm		
Video Interface	USB 3.0		
Min. Lux	0.01 lux	White Balance	Auto/Manual
FOCUS	Auto/Manual	Iris	Auto/Manual
Shutter	Auto/Manual	WDR	Supported
BLC	Supported	2D DNR	Supported
3D DNR	Supported	Input Voltage	DC12V
Net Weight	1.25KG	Sensor	1/2.8 inch, 8.42MP CMOS

# One Touch

AOT-01

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- 120° wide-angle, distortionless video supporting MJPG, H.264, H.265 and 4K @30fps.
- 2.5x Digital Zoom in Full HD.
- 4 x beam forming microphone array.
- Full duplex, high fidelity conference audio. As seamless and natural as real life.
- High fidelity and dynamic noise reduction makes your audio crystal clear.
- USB HID Reverse control lets you control your computer settings through the device.
- New Angekis audio processing algorithm.
- 360° coverage, 3-5 meter range pickup, 384ms echo cancellation and dynamic noise reduction.
- Room filling sound up to 92dB(at 0.5m).

## Features and Specifications

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- Group auto-framing with smooth as silk transitions.
- Comes with a built in mount, but can also accept wall adapter and other options.
- Advanced audio processing algorithm samples, processes, and refines the spatial characteristics of the sound field.
- Digital noise reduction cleans up ambient sound, refining and cleaning up your audio.
- 360° intelligent sound pickup gives you 3 meters of excellent microphone clarity, and works very well up to 5 meters.
- 48KHz uplink and 48KHz downlink audio sampling rate.
- Perfect full-duplex simultaneous two way communication makes your conversations sound clear and natural.
- Ultra high fidelity voice.



# Product Highlights

## 4K Video, Dynamic Audio, and Mic. One Cable, One Touch.

Seamless. It's a word we like to hear when discussing A/V setups. The Angekis One Touch all in one Video and Audio Bar gives you exactly that. Boasting a 4 x beam forming microphone array, 4K video, group auto-framing, 92 dB speakers, and a simple plug and play USB-C connector to handle audio, video, and control. with the Angekis One Touch you've got a solution that works ... with just one touch.

### Groundbreaking 4K Optics

Utilizing the highest quality sensors and a multi-glass lens, the One Touch all in one camera brings you the sharpest, best in class image that makes your video conference feel like you're sitting together in the same room.



### One Touch

Enjoy quick and versatile deployment. A single USB-C connection gives you instant audio and video, plug and play style. No need for any separate microphones, speakers, or cables to clutter the table.

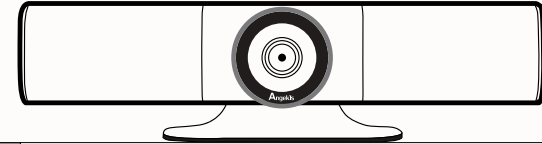


### Group Autoframing

Let One Touch do the work with group auto-framing. As people join your meeting the camera will automatically frame them into view!



# Product Specifications



Model	OneTouch (AOT-01)		
Sensor	1/2.8 inch high quality, 8.42 megapixel SONY CMOS sensor		
Video Interface (USB2.0)	3840*2160@30/25/20/15/10/5fps; 2592*1944@30/25/20/15/10/5fps; 2048*1536@30/25/20/15/10/5fps; 1600*1200@30/25/20/15/10/5fps; 1920*1080@30/25/20/15/10/5fps; 1280*720@30/25/20/15/10/5fps; 1024*576@30/25/20/15/10/5/5. 960*540@30/25/20/15/10/5fps		
Optical Zoom	Fixed Lens	Digital Zoom	5x
FOV	120°	Sensor Resolution	8.42 megapixel
Control Port	USB-C	Video Port	USB-C
S/N Ratio	>50dB	Optics	f=2.20mm, F2.2
Minimum Lux	0.1 lux	White Balance	Auto/Manual/Indoor/Outdoor
Anti-Flicker	50HZ/60HZ/OFF	WDR	Supported
Polar Distance	3-5meters	USB Audio	Supported
Sensitivity	38dB 94dB SPL@1KHz	Input Volatage	DC port/PoE (Optional)
Dimensions	395mm x 113mmx 112mm	Net Weight	1KG (2.2Lbs)



# TORPEDO

## Personal Precision

## Features and Specifications

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- 4K Ultra High Definition Video @ 30fps and 1080p Full High Definition @ 60fps.
- Sony 1/2.8" 8.42MP UHD CMOS Image Sensor.
- 65° HFOV.
- High End Professional Optical Glass with over 95% Light Transmission.
- Digital Zoom up to 2x @ 1080p and 3x @720p.
- Angekis Accelafocus quickly and accurately detects, locks on, and autofocuses in under 0.1 second flat.

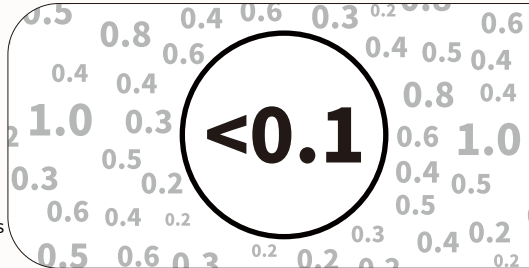
### Only Angekis Delivers

- Built-in Omnidirectional Microphone with Noise Cancellation.
- Automatic Exposure and Lighting algorithms calculate and optimize settings such as contrast, saturation, sharpness, and more.
- Mounting receiver allows for the use of tripods and other optional mounting solutions for the perfect angle.

# Product Highlights

## Accelafocus

Angekis Accelafocus represents a generational leap in autofocus technology. Using optical phase detection, the camera moves with a mission, locking on and bringing you into perfect clarity in less than 0.1 second. Feel free to compare Accelafocus to any other autofocus technology on the market and see how it stacks up. We'll be the first to say: "target acquired".



## Form Factor

The Torpedo is armed and ready. Just like its namesake, the Torpedo has a sleek and sturdy metal casing intelligently designed to protect the advanced electronics contained within. The anodized, fingerprint proof metal surface looks great in any setting, and the shape of the device, plus the built-in bracket stand, makes it easy to transport, deploy, find just the right angle, and do it all over again.

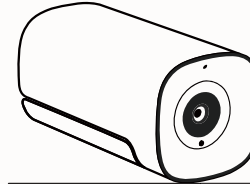


## Mounting Options

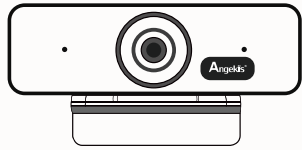
A built-in collapsible mounting bracket makes the device easy to transport and simple to deploy. A 6mm mounting receiver also allows for the use of tripods and other optional mounting solutions so you can find the perfect angle.



# Product Specifications



Model	Torpedo (ATO-01)		
Sensor	1/2.8 inch high quality 8.42 megapixel UHD CMOS sensor		
Video Format	MJPEG	Portrait Video: 1080*1920 @ 30/15, 720*1280 @ 30/15, 576*1024 @ 30/15, 360*480 @ 30/15	
	Landscape Video	4000*3000 @ 15/10, 3840*2160 @ 30/10, 2560*1440 @ 20/10, 1920*1080 @ 60/30, 1280*720 @ 60/30, 1024*574 @ 60/30, 640*480 @ 20/10	
	YUY2	1280*720 @ 12/5, 1024*576 @ 20/15, 640*480 @ 30/20	
Video Interface	USB-C	Control Port	USB-C
Optical Zoom	Fixed Lens	S/N Ratio	64Db
Digital Zoom	3x	Autofocus	Accelafocus PDAF
Polar distance	3-5 meters	Minimum Lux	0.1 lux
Sensitivity	-26±2dB RL=2.2KQVs=2.0V	White Balance	Auto/Manual
Input Voltage	USB Power Supply	Optics	f3.96mm, F1.8
Dimensions (LxD)	89mm x 48mm	Built-in Mic	1
Field of View	Diagonal = 80°, Horizontal = 65°	Anti-Flicker	50HZ/60HZ/OFF
Sensor Resolution	8.42MP	WDR	Supported
Casing	CNC Anodized Metal	Net Weight	0.27kg



# COMPACT ONE

4K ePTZ USB Camera



## Features and Specifications

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- Ultra HD 4K video over USB 2.0 Type-B.
- 2 x built-in microphones.
- Image Sensor: 1/2.8 inch, 8.42MP.
- Driver-free instant connectivity (UVC 1.5).
- 4x lossless digital zoom.
- 120° HFOV.
- Compatible with Windows, OSX, Linux, and Android (over YUY2 VGA)
- Ultra Optix Digital Noise Reduction (DNR) image technology keeps your image sharp and clear - even in low light settings.
- Angekis' group autoframing algorithm gets your whole team together - automatically.
- Tested for compatibility with all major video conferencing platforms.
- Built-in monitor mount.



# Product Highlights

4K clarity, built-in microphones, group auto-framing, and auto-tracking in a compact package.



## Group Autoframing

Let the Compact One do the work with group auto-framing. As people join your meeting the Camera will automatically adjust to get everyone in the picture.



## Metal Housing

CNC machined with a fingerprint-proof, anodized matte surface finish. Elegant, conveniently sized, and a beautiful addition to any space.



## Plug and Play

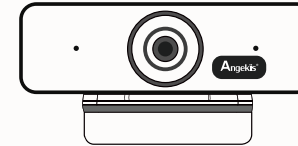
Enjoy a seamless experience with your go-to video conferencing app. One cable gives you audio, video, and power. Plug it into a USB-B port and you're good to go!



## Exceptional Outputs & Controls

Connects via USB-B. Controlled via IR remote control. Zoom in, zoom out, change the brightness, select a focus, or hand over the image settings to the automatic adjustment program.

# Product Specifications



Model	Compact One (ACO-01)		
Sensor	1/2.8 inch high quality 8.42 megapixel SONY CMOS sensor		
Video Format	YUY2/NV12	1280*720 @ 15fps 1024*576 @ 20fps 640*480 @ 30fps	
	MJPG	3840*2160 @ 30fps; 2560*1440 @ 30fps; 1920*1080 @ 30fps; 1280*720 @ 30fps; 1024*576 @ 30fps; 640*480 @ 30fps	
	H.264/H.265	3840*2160@30; 2560*1440@30; 1920*1080@30; 1280*720@30; 1024*576@30; 640*480@30	
Video Interface	USB 2.0 (Type-B)	Control Port	USB 2.0 (UVC/UAC)
Optical Zoom	Fixed Lens	S/N Ratio	>50dB
Digital Zoom	4x	Minimum Lux	0.1 lux
Mic	2 x Built-In Omnidirectional	White Balance	Auto/Manual
Polar distance	3-5 meters	Optics	f2.2mm, F2.2
Sensitivity	-26±2dB RL=2.2KQVs=2.0V	Anti-Flicker	50HZ/60HZ/OFF
Input Voltage	4.4-5.25V@500mA (USB port)	WDR	Supported
Field of View	120°	Dimensions (LxWxH)	115mm x 36mm x 60mm
Sensor Resolution	8.42 megapixel	Net Weight	0.37KG



Model	Saber 4K+ NDI (ANG2-12UHD-01N)		
Video Format	HDMI (v2.0)	3840*2160P60/59.94/50/30/29.97/25; 1920*1080P60/59.94/50/30/29.97/25/24/23.98; 1920*1080i60/59.94/50; 1280*720P60/59.94/50/30/29.97/25	
	3G-SDI	1920*1080P 60/59.94/50/30/29.97/25/24/23.98; 1920*1080i 60/59.94/50; 1280*720P 60/59.94/50/30/29.97/25	
	USB-C	NV12: 1920*1080P5: 1280*720P15: 1024*576P25: 800*448P30 YUYV: 1920*1080P5: 1280*720P15: 1024*576P25: 800*448P30 MJPG: 3840*2160P30: 1920*1080P60: 1280*720P60: 1024*576P60: 800*448P60 H264/H265: 3840 2160P30: 1920*1080P60: 1280*720P60: 1024*576P60: 800*448P60	
	NDI HX	Main stream: 3840*2160P15-60: 1920*1080P15-60: 1280*720P15-60: 1024*576P15-60 Sub stream: 640*360P30	
Video Interface	HDMI (V2.0), SDI, NDI HX, USB-C		
White Balance	Auto/Indoor/Outdoor/Manual/Push/Sodium Lamp Auto/Sodium Lamp		
Exposure	Auto/Manual/Bright/Shutter/Iris		
Supported Protocol	TCP/IP, HTTP, RTSP, DHCP, RTMP, Onvif (2.4), NDI (H X), SRT, Visca over IP (TCP & UDP), HTML5, VISCA, Pelco P, Pelco D, SRT Compatible		
Control Port	RS232, RS485 (Serial VISCA, Pelco-P/D), RJ45 (VISCA over IP), USB-C (Compatible with USB3.0 (UVC1.5) & USB2.0 (UVC1.1))		
Sensor	1/2.8 inch 8.42MP CMOS sensor	Presets	Remote controller: 10; RS232: 128; Accuracy: 0.1°
Lens	f 3.4 ~ 40.3mm (12X), F1.8- 3.6 View Angle: 80.5°(Far)-7.6°(Near)	Rotation Angle	Pan: -170° ~ +170°; Tilt: -30° ~ +90°
Zoom	12X Optical Zoom + 4X Digital Zoom	Rotation Speed	Pan: 0°~120°/s; Tilt: 0°~80°/s
Focus	Auto / Manual	Presets	Remote controller: 10; RS232: 128; Accuracy: 0.1°
Iris	Auto / Manual	Network Speed	1000M
2D/3D DNR	Supported	Video Encoding	NV12, YUYV, MJPG, H264/H265, IP (NDI HX, SRT)
Gamma	Supported	Bit Rate Control	Variable Bit Rate, Constant Bit Rate
WDR	Supported	Video Bit Rate	1024Kbps-20480Kbps
BLC	Supported	POE+	Supported
Minimum Lux	0.1lux	Daisy Chain	Supports RS232 Serial Daisy Chain
Anti Flicker	OFF/50Hz/60Hz	Dimension	220mm × 190mm × 173mm
Pan Tilt Flip	Supported	Net Weight	1.47 KG
Input Voltage	DC12V/POE(IEEE802.3af)		

## Saber IP20X NDI|HX

Model	Saber IP20X NDI  HX (NDI-20FHD60)		
Video Format	HDMI (V1.4)	1920*1080P @ 60/50/30/25/59.94/29.97/24 fps 1920*1080I @ 60/50/59.94 fps 1280*720P @ 60/50/30/25/59.94/29.97 fps	
	SDI	1920*1080P @ 60/50/30/25/59.94/29.97/24 fps 1920*1080I @ 60/50/59.94 fps 1280*720P @ 60/50/30/25/59.94/29.97 fps	
	USB 2.0	1280*720P @ 25 fps; 1024*576P @ 30 fps; 960*540P @ 30 fps; 640*360P @ 30 fps; 512*288P @ 30 fps	
	USB 3.0	1920*1080P @ 60/50/30/25 fps; 1280*720P @ 60/50/30 fps; 1280*720P @ 25 fps	
	IP	Mainstream: 1920*1080 @ 3-60fps; 1280*720 @ 3-60fps; 1024*576 @ 3-60fps Substream: 1280*720 @ 3-60fps; 1024*576 @ 3-60fps; 640*360 @ 3-60fps	
	NDI	1920*1080 @ 3-60fps; 1280*720 @ 3-60fps; 1024*576 @ 3-60fps; 640*360 @ 30fps (low broadband mode)	
Lens	f4.9 ~ 98mm(20x), F1.5 - 3.0. View Angle: 60°(Far)-3.2°(Near)		
White Balance	Auto / indoor / outdoor / manual / outauto / sodium Lamp Auto / sodium lamp		
Video Interface	HDMI (V1.4), SDI, NDI HX, USB3.0 (Compatible with USB2.0)		
Control Port	RS232, RS485 (Serial Visca, Pelco-P/D), RJ45 (VISCA over IP), USB3.0 (UVC1.5), USB2.0(UVC1.1)		
IP Protocol	TCP/IP, HTTP, DHCP, RTSP, RTMP, Onvif 2.4, VISCA over IP (TCP&UDP), NDI (H X), SRT Compatible		
Daisy Chain	Supports RS232 Serial Daisy Chain	Exposure	Auto / manual / bright / shutter / iris
Sensor	1/2.8 inch, 2.4MP CMOS Sensor	Focus	Auto / Manual
Minimum Lux	0.1lux	Iris	Auto / Manual
Rotation Angle	Pan:±170°; Tilt:-30°~+90°	2D/3D DNR	Supported
Rotation Speed	Pan: 0.1°-120°/s; Tilt: 0.1°-80°/s	Gamma	Supported
Preset	Remote Control: 10, RS232: 128, Accuracy: 0.1°	WDR	Supported
Network Speed	1000M	BLC	Supported
Video Encoding	H.264&H.265	Anti Flicker	OFF/50Hz/60Hz
Bit Rate Control	Variable Bit Rate, Constant Bit Rate	Pan Tilt Flip	Supported
Video Bit Rate	1024Kbps-10240Kbps	Input Voltage	DC12V/POE
POE	Supported	Dimensions	220mm×190mm×173mm
Net Weight	1.47 KG		

## Saber IP20X Full NDI

Model	Saber IP20X Full NDI (FNDI-20FHD60)		
Video Format	HDMI (V1.4)	1920*1080P @ 60/50/30/25/59.94/29.97/24 fps 1920*1080I @ 60/50/59.94 fps 1280*720P @ 60/50/30/25/59.94/29.97 fps	
	USB 2.0	1280*720P @ 25 fps; 1024*576P @ 30 fps; 960*540P @ 30 fps; 640*360P @ 30 fps; 512*288P @ 30 fps	
	SDI	1920*1080P @ 60/50/30/25/59.94/29.97/24 fps 1920*1080I @ 60/50/59.94 fps 1280*720P @ 60/50/30/25/59.94/29.97 fps	
	IP	Mainstream: 1920*1080 @ 3-60fps; 1280*720 @ 3-60fps; 1024*576 @ 3-60fps Substream: 1280*720 @ 3-60fps; 1024*576 @ 3-60fps; 640*360 @ 3-60fps	
	NDI®	1920*1080 @ 3-60fps; 1280*720 @ 3-60fps; 1024*576 @ 3-60fps; 640*360 @ 30fps (low broadband mode)	
Lens	20x Optical + 4x Digital f4.9~98mm(20x), F1.5 - 3.0. View Angle: 60°(Far)-3.2°(Near)		
White Balance	Auto / indoor / outdoor / manual / outauto / sodium Lamp Auto / sodium lamp		
Video Interface	HDMI (V1.4), SDI, NDI®, USB3.0 (Compatible with USB2.0)		
Preset	Remote Control: 10, RS232: 128, Accuracy: 0.1°		
Control Port	RS232, RS485 (Serial Visca, Pelco-P/D), RJ45 (VISCA over IP), USB2.0(UVC1.1)		
Exposure	Auto / manual / bright / shutter / iris		
Sensor	1/2.8 inch, 2.4MP CMOS Sensor	Focus	Auto / Manual
Daisy Chain	Supports RS232 Serial Daisy Chain	Iris	Auto / Manual
Minimum Lux	0.1lux	2D/3D DNR	Supported
Rotation Angle	Pan:±170°; Tilt:-30°~+90°	Gamma	Supported
Rotation Speed	Pan: 0.1°-120°/s; Tilt: 0.1°-80°/s	WDR	Supported
Network Speed	1000M	BLC	Supported
Video Encoding	H.264&H.265	Anti Flicker	OFF/50Hz/60Hz
Bit Rate Control	Variable Bit Rate, Constant Bit Rate	Pan Tilt Flip	Supported
Video Bit Rate	1024Kbps-10240Kbps	Input Voltage	DC12V/POE
POE	Supported	Dimensions	220mm×190mm×173mm
IP Protocol	High Bandwidth NDI	Net Weight	1.47 KG

# Comparison Chart





# Audio Solutions

# CLEARTALK

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## ASP-05

The ASP-05 is a wired speakerphone designed for huddle spaces or small sized conference rooms that seat up to 6 participants. Whilst compact, the ASP-05 packs a punch with high end audio that delivers clear and crisp sound for your everyday conferencing needs.

### Clear and crisp

- Connects to a computer via USB.
- Built in high powered speakers.
- Built in echo cancellation chip.
- Intelligent tuning band.
- Full duplex.
- Strong anti-interference ability.
- Plug and play, no drivers required.
- Compatible with Windows, Mac OS, Linux, and more.
- Pick-up radius: 6m.
- Audio interface: 3.5 mm.
- Speaker: Built in high powered speakers.
- 3 x omnidirectional microphones.



### Package Contents

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1: Speakerphone

2: USB Charging Cable

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# CLEARTALK

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## ASP-10

With an enhanced audio pick up range of 5 meters, ASP-10 is the perfect audio solution for medium sized conference rooms. Enjoy 3D gesture controls to mute and unmute the device, HID reverse control functionality to synchronize input and output across your computer, speakers, and speakerphone, and straightforward plug and play functionality via the included USB cable.

### Extend your range

- Connects to a computer via USB.
- Intelligent dynamic noise reduction.
- Auto gain.
- Full duplex technology.
- 384ms Echo cancellation.
- 3D gesture control.
- Compact & portable.
- Pick-up radius: up to 5m.
- Speaker: Built in high powered speakers.
- 360 degree pickup.



### Package Contents

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1: Speakerphone      2: USB cable 3m      3: USB extension 1.8m

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# CLEARTALK

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## WIRELESS ASP-04

The ASP-04 is a 2.4GHz wireless communication speakerphone with charging dock. It is compatible with all kinds of hardware, video conferencing systems, education training systems, network monitoring systems, remote medical systems, smart city systems, conference recording systems, and more. Simultaneously picks up audio and plays sounds without any interference.

### Wireless and compact

- Connects to a computer via 2.4 GHz RF wireless technology.
- Built in high powered speakers.
- Built in echo cancellation chip.
- Intelligent tuning band.
- Strong anti-interference ability.
- Plug and play, no drivers required.
- Compatible with Windows, Mac OS, Linux, and more.
- Includes wireless charging dock.
- Connectivity: 2.4GHZ wireless dongle.
- Pick-up radius: 3m.
- Audio interface: 3.5 mm.
- Speakers: Built in high powered speakers.
- 3x omnidirectional microphones.
- 7-10 hours battery life.



### Package Contents

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- 1: Speakerphone    2: Charging Dock    3: 2.4Ghz Wireless Dongle  
4: Power Adaptor    5: USB Cable for Charging Dock
-

# CLEARTALK

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## ANCHOR ASP-06

The ASP-06 Cleartalk Anchor is a portable USB omnidirectional speakerphone that is both wired via USB and wireless via bluetooth. It's a versatile solution for almost any scenario. The speakerphone comes equipped with a bluetooth adaptor enabling the speakerphone to be placed wirelessly in any location cable and clutter free. With one to one bluetooth technology, you can be guaranteed there will be no clash or interference with other devices. You can install multiple ASP-06 units in one room with no issues.

### The portable powerhouse

- Connects to a computer via USB or wireless bluetooth.
- Intelligent dynamic noise reduction.
- Auto gain.
- Full duplex technology.
- Echo cancellation.
- Up to 90db volume.
- Up to 10hrs battery life.
- Compact & portable.
- Pick-up radius: up to 4m.
- Pair to any bluetooth device.
- Speaker: Built in high powered speakers.
- 360 degree pickup.
- 1 to 1 bluetooth technology.



### Package Contents

---

1: Speakerphone with USB Cable

2: Wireless dongle

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# CLEARTALK

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## WIRELESS DC ASP-04D-2

The ASP-04D-2 is a twin unit 2.4GHz wireless communication speakerphone set. The perfect solution for larger conference, education and event spaces that require a larger audio pickup area. Both units seamlessly synchronize and simultaneously pick up and play audio without interference.

### Expand your audio

- Built in high powered speakers.
- Built in echo cancellation chip.
- Intelligent tuning band.
- Strong anti-interference ability.
- Plug and play, no drivers required.
- Compatible with Windows, Mac OS, Linux, and more.
- Connects to a computer via 2.4 GHz RF wireless technology.
- Connectivity: 2.4GHZ wireless dongle.
- Pick-up radius: 6m.
- Audio interface: 3.5 mm.
- Speaker: Built in high powered speakers.
- 3 x mics: 360 degree or omnidirectional.
- 7-10 hours battery life.



### Package Contents

---

- |                  |                           |
|------------------|---------------------------|
| 1: Speakerphone  | 2: USB Charging Cables *2 |
| 3: Power Adaptor | 4: 2.4Ghz Wireless Dongle |
-

# CLEARTALK

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## HD DC ASP-10D-2

Two ASP-10 Speakerphone units daisy chained together with wireless functionality. Enjoy straightforward plug and play functionality via the 2.4 GHz wireless USB dongle, as well as 3rd generation AUCTOPUS audio processing and HD voice audio quality. Each unit has a range of up to 5 meters, and with two of them you can double your coverage.

### Expand your audio

- Connects to a computer via 2.4 GHz USB dongle.
- Intelligent dynamic noise reduction.
- Automatic gain control.
- Full duplex communication.
- 384ms echo cancellation.
- Compact and portable.



### Package Contents

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1: 2.4Ghz Dongle      2: Speakerphone \*2      3: USB Cable \*2

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# CLEARTALK

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## ASP-04D-4S

The Angekis ASP-04D-4S is a professional conference room audio system. It comes with a digital active loudspeaker that serves as the base/controller unit, as well as 4x wireless omnidirectional microphone/agent units. The speaker unit can also accept a 6.5mm microphone input for versatile functionality.

### Expand your audio

- Digital audio processing.
- 384ms echo cancellation.
- Dynamic noise reduction.
- Full duplex.
- 360 degree pick-up area.
- Up to 3m pick-up range.
- Supports handheld microphone.
- Wireless charging.
- Anti-magnetic design.
- 4 x wireless microphone units.



### Package Contents

---

- |                             |                                 |
|-----------------------------|---------------------------------|
| 1: Loudspeaker Controller   | 2: Wireless microphone agent *4 |
| 3: Controller Antenna       | 4: Controller USB Cable         |
| 5: Controller power adapter | 6: Agent Power adapters*4       |
-

# Ceiling Mic Pro

ASP-C-01

High tech audio in a professional package. Two HD voice area ceiling microphones, combined with an advanced Digital Signal Processor unit, deliver sophisticated audio production capabilities for the largest spaces. For advanced audio controls and output options, the DSP central unit supports 6 road 3.81mm phoenix based MIX and AEC inputs, as well as Speaker, REC and AEC outputs. Additional ports include a USB Type-B control port that plugs right into just about any Windows or Mac OSX machine. Plug it in, fire up your favorite audio and video editing software, and get down to business.

## Audio processing made easy

- 48 KHz sampling rate.
- Adaptive echo cancellation.
- Adaptive noise suppression.
- Intelligent sound mixing.
- Supports 24 bit A/D and D/A.
- Adopts bare wire phoenix interface.
- 6 way balanced output.
- High noise reduction.
- 10m pickup radius.
- Adaptive algorithm.
- Adaptive speech gain adjustment.



## Package Contents

1: ASP-C-01 Master	2: Hanging Mic *2	3: Power Adaptor
4: Speaker cable	5: REC cable	6: AEC cable
7: B-type USB cable	8: Mixer cable	9: Mic Cable *2

# Ceiling Mic HD

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ASP-C-02

The Ceiling Mic HD ASP-C-02 delivers high tech audio in a compact package. Two HD voice area ceiling microphones, combined with an advanced Digital Signal Processor unit, deliver incredible audio production capabilities for the largest spaces. With a pick up range of 10 meters each, you can cover a full lecture hall, large conference room, or other event space with clear and precise audio through the versatile USB Type-B connector.

## A simple & effective audio solution

- 48 KHz sampling rate.
- Adaptive echo cancellation.
- Adaptive noise suppression.
- Intelligent sound mixing.
- Supports 24 bit A/D and D/A.
- 6 way balanced output.
- Adopts bare wire phoenix interface.
- High noise reduction.
- 3rd Generation AUCTION audio processing.
- 10m pickup radius.
- Adaptive speech gain adjustment.



## Package Contents

---

- |                     |                  |                  |
|---------------------|------------------|------------------|
| 1: ASP-C-02 Master  | 2: Hanging Mic*2 | 3: Power Adaptor |
| 4: Speaker cable    | 5: REC cable     | 6: AEC cable     |
| 7: B-type USB cable | 8: Mixer cable   | 9: Mic Cable *2  |
-



# Ceiling Mic HD

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ASP-C-04

This is a high quality audio mixing system, developed for use in lecture halls, meeting rooms, houses of worship, or any other large space that needs professional audio. It consists of a Digital Signal Processor main unit with phoenix terminals, 3.5mm and USB connectivity, as well as four HD voice hanging area microphones. It connects to speakers for instant amplification and/or a computer or recording device for further audio production.

## Maximum Coverage

- Adaptive echo cancellation.
- Adaptive noise suppression.
- Intelligent sound mixing.
- 7 road 3.81 phoenix interface.
- USB type-B interface.
- Compatible with most audio software.
- Full frequency UHF support.
- 3rd generation AUCTIONUS audio processing.
- 4x HD Voice Area Microphones.
- 3.5mm audio monitoring jack.
- 10m pickup radius.



## Package Contents

---

- |                                       |                  |                      |
|---------------------------------------|------------------|----------------------|
| 1: ASP-C-04 Master                    | 2: Hanging Mic*4 | 3: Power Adaptor     |
| 4: USB B-A Cable                      | 5: Mic Cable *4  | 6: Phoenix Terminal  |
| 7: RCA Plug to Phoenix Terminal Cable |                  | 8: 3.5mm Audio Cable |
-

# Angekis®



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