Angekïs®

Please send inquiries to sales@angekis.com

www.angekis.com

Angekis®

COMPANY BROCHURE

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WHY Angekis ?

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 A/V 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 A/V 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 A/V 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.

TORPEDO

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.

Model	Torpedo ATO-01		
Sensor	1/2.8 inch high quality 8.42 megapixel UHD CMOS sensor		
Video Format	YUY2: 1280*720 @ 12/5, 1024*576 @ 20/15, 640*480 @ 30/20		
	MJPG: Portrait Video 1080*1920 @ 30/15, 720*1280 @ 30/15, 576*1024 @ 30/15, 360*480 @ 30/15		
	MJPG: 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		
Video Interface	USB-C	Control Port	USB-C
Optical Zoom	Fixed lens	S/N Ratio	64dB
Digital Zoom	3X	Autofucus	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	89mm x 48mm	Built-in Mic	1
Field of View	Diagonal= 80°， Horizontal=65°	Anti-Flicker	50HZ/60HZ/OFF
Sensor Resolution	8.42 MP	WDR	Supported
Casing	CNC Anodized Metal	Net Weight	0.27KG

Features and Specifications

- 4K Ultra High Definition Video @ 30fps and 1080p Full High Definition @ 60fps.
- Sony 1/2.8" 8.42 MP UHD CMOS Image Sensor.
- 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. Or take manual control with the Angekis NECC app.
- Mounting receiver allows for the use of tripods and other optional mounting solutions for the perfect angle.

COMPACT ONE

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.

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 typeB	Control Port	USB 2.0 (UVC/UAC)
Optical Zoom	Fixed lens	S/N Ratio	>50dB
Digital Zoom	4X	Optics	f=2.20mm， F2.2
Polar distance	3—5 meters	Minimum Lux.	0.1 lux
Sensitivity	-26±2dB RL=2.2KQVs=2.0V	White Balance	Auto/Manual
Input Voltage	4.4~5.25V@500mA (USB port)	Casing	CNC Anodized Metal
Dimensions (LxWxH)	115mm x 36mm x 60mm	Anti-Flicker	50HZ/60HZ/OFF
Field of View	120°	WDR	Supported
Sensor Resolution	8.42 megapixel	Net Weight	0.37KG

Features and Specifications

- 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)
- Autoframing on chip
- ePTZ autotracking on chip
- 4x lossless digital zoom
- 120° degree FOV
- Compatible with Windows, OSX, Linux, and Android (over YUY2 VGA)

Only Angekis Delivers

- 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.

ONE TOUCH AOT-01

4K Video, Dynamic Audio, and Mic. 1 Cable. 1 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.

HD Voice With Angekis Audio Processing Technology

- 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.
- Room filling sound up to 92dB (at 0.5m).

4K Conferencing Video Capture With Real Life Clarity

The 4K, 2160p camera provides exceptional video for online meetings and video streaming, with real time synchronization, fluid movement capture, and smooth framing. It is compatible with all major video conferencing software, including Skype, Zoom, MS Teams, etc., and fits neatly above or below your screen.

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.

Model		OneTouch AOT-01
Sensor		1/2.8 inch high quality, 8.42 megapixel SONY CMOS sensor
Video Interface	USB-C	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@30/25/20/15/10/5 960*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 Voltage		DC port/PoE (Optional)
Dimensions		395mm x 113mmx 112mm
Net Weight		1KG (2.2Lbs)

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!

Features:

- 120° wide-angle, distortionless video supporting MJPG, H.264, H.265 and 4K @30fps.
- 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 setting through the device.
- New Angekis audio processing algorithm.
- 360° coverage, 3-5 meter range pickup, 384ms echo cancellation and dynamic noise reduction.
- Group auto-framing with smooth as silk transitions.
- Comes with a built in mount, but can also accept wall adapter and other options.

Saber 4K+

ANG2-12UHD-01

The Saber 4K+ provides cutting edge 4K, ultra high definition video over HDMI and IP. The trend towards bigger and better resolution is coming as fast as ever. Future proof your conference room and live event streaming with Angekis.

The Saber 4K+ is a professional grade Ultra HD video camera that supports IP/LAN, HDMI, SDI, & USB-C outputs. This versatility and range of integration options is ideal for broadcasting, high end video conferencing, and other applications.

Features:

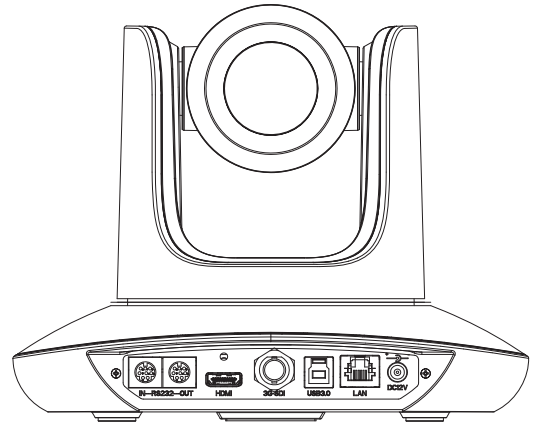
- Outputs: IP, HDMI, SDI, USB-C.
- 12X Optical Zoom+4X Digital Zoom, 80.5° FOV.
- 4K Video at 60fps over HDMI and IP.
- Supports PoE+: Enjoy power, video, and control over a single ethernet cable.
- Supports Line in Audio input.

Saber 4K+ (ANG2-12UHD-01)			
Sensor	1/2.8inch high quality 8.42 MP CMOS Sensor		
Video Format	HDMI	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	
	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/H265: 3840*2160P30; 1920*1080P60/30;1280*720P60/30; 1024*576P60/30; 800*448P60/30 NV12: 1920*1080P10; 1280*720P25; 1024*576P30; 800*448P30 YUYV: 1920*1080P5; 1280*720P15; 1024*576P25;800*448P30	
	IP	Main: 3840*2160P15-60; 1920*1080P15-60; 1280*720P15-60; 1024*576P15-60 Sub: 720*480P15-60; 640*480P15-60; 640*360P15-60	
Video Interface	HDMI, SDI, RJ45, USB Type-C	White Balance	Auto / Manual / ATW / Push / Indoor / Outdoor / Color Temperature
Audio Interface	3.5mm Line in	Exposure	Auto / Manual /Shutter / Iris / Bright
Zoom	12X optical zoom + 4X digital zoom	Focus	Auto / Manual
Focal Length	3.4mm~40.3mm	Iris	Auto / Manual
Aperture	F1.8(Wide)~F3.6(Tele)	Shutter	Auto / Manual
View Angel	7.6° (Tele)~80.5° ((Wide)	Gamma select	Supported
Rotation Angle	Pan: ±170° ; Tilt: -30° ~+90°	BLC	Supported
Rotation Speed	Pan: 0.1° ~120° /s; Tilt: 0.1° ~80° /s	2D/3D Noise Reduction	Supported
Preset	Remote controller: 10; RS232: 128; Accuracy: 0.1°	Minimum Lux	0.1lux
Control Port	RS232 RJ45	Anti-flicker	OFF, 50Hz, 60Hz
Network Speed	1000M	Pan Tilt Flip	Supported
Video encode	H.264 / H.265	Mirroring	Supported
Bit Rate Control	Variable Bit Rate, Constant Bit Rate	Input Voltage	DC12V/POE+(IEEE802.3at)
Video Bit Rate	1024~61440kbps	Dimension	220mm×190mm×173mm
Protocol	HTTP, RTSP, RTMP, Onvif, Visca TCP, Visca UDP, Visca over IP, Visca Serial, Pelco-P, Pelco-D, SRT	Net Weight	1.47kg(3LBS)
POE+	Supported	Working Temperature	-10℃~50℃
Daisy Chain	Support RS232 serial daisy chain	Working Humidity	≤80%

SABER IP20X

IP-20FHD6-BM

Model	Saber IP20X (IP-20FHD6-BM)			
Video Format	HDMI(V1.4)	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		
	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	1920*1080p @ 60/50/30/25fps (USB3.0) 1280*720p @ 60/50/30fps (USB 3.0) 1280*720p @ 25fps (USB3.0 & USB2.0) 1024*576p @ 30fps (USB3.0 & USB2.0) 960*540p @ 30fps (USB2.0) 640*360p @ 30fps (USB2.0) 512*288p @ 30fps (USB2.0)		
	RJ45	Main Stream: 1920*1080 @ 1~60fps Sub stream: 1280*720@1~30/1027*576fps @ 1~30fps/ 640*360 @ 1~30fps		
Video Interface	HDMI (V1.4), SDI, LAN, USB 3.0, USB 2.0			
Sensor	1/2.8 inch 2.1MP CMOS sensor			
Lens	f4.9~ 98mm(20x), F1.5- 3.0, View Angle:60° (Far)-3.2° (Near)			
Rotation Angle	Pan: -170° ~ +170°; Tilt: -30° - +90°			
Rotation Speed	Pan: 0°~120°/s ; Tilt: 0°~80°/s		White Balance	Auto/Indoor/Outdoor/Manual/ Outauto/Sodium Lamp Auto/ Sodium Lamp
Preset	Remote controller:10; RS232:128; Accuracy:0.1°		Exposure	Auto/Manual/ Bright/Shutter/Iris
Protocol	HTTP, RTSP, RTMP, SRT, Onvif, Visca TCP, Visca UDP, Visca over IP, Visca Serial, Pelco-P, Pelco-D		Control Port	RS232, RS485 (Serial Visca, Pelco-P/D), RJ45 (VISCA over IP), USB3.0 (UVC1.5), USB2.0 (UVC1.1)
Network Speed	1000M		Iris	Auto / Manual
Video encode	H.264/H.265(default: H.264)			
Bit Rate Control	Variable Bit Rate, Constant Bit Rate		Gamma	Supported
Video Bit Rate	0Kbps-15360Kbps		WDR	Supported
Focus	Auto / Manual		BLC	Supported
POE	Supported		2D Noise Reduction	Supported
Daisy Chain	Support RS232 serial daisy chain		3D Noise Reduction	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		Input Voltage	DC12V/POE



The Livestreaming Camera with Versatility

Professional IP livestreaming with 20x zoom. High end performance and incredible connectivity at an unparalleled value. 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.

Advantages:

- Full HD video: with advanced 1/2.8 inch 2.1 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-upgradable): 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 videoconferencing software (UVC1.1 protocol standard)
- Multi language OSD menu: supports English, Chinese, Russian, Spanish

Features:

- USB 3.0 & HDMI & IP & SDI simultaneous output
- Zoom: 20x Optical Zoom + 2x Digital Zoom
- High resolution video: 1920x1080p @ 60fps
- 60° Degree field of view
- 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

Now Available in White

SABER PLUS

U3D-12FHD6

Model	Saber Plus (U3D-12FHD6)			
Video Format	HDMI(V1.4)	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		
	SDI	1920*1080P60/50/30/25/59.94/29.97/24 1920*1080160/50/59.94 1280*720P60/50/30/25/59.94/29.97		
	USB	1920*1080p @ 60/50/30/25fps (USB3.0) 1280*720p @ 60/50/30fps (USB3.0) 1280*720p @ 25fps (USB3.0 & USB2.0) 1024*576p @ 30fps (USB3.0 & USB2.0) 960*540p @ 30fps (USB2.0) 640*360p @ 30fps (USB2.0) 512*288p @ 30fps (USB2.0)		
	RJ45	1920*1080 @ 1-30 (Main Stream) 1280*720 @ 1~30fps / 1027*576 @ 1~30fps / 640*360 @ 1~30fps (Substream)		
Video Interface	HDMI (V1.4), SDI, RJ45, USB 3.0			
Sensor	1/2.8 inch 8.51MP CMOS sensor			
Lens	f3.92~ 47.32mm(12x), F1.8- 2.8, View Angle: 72.5°(Far) - 6.3°(Near)			
Rotation Angle	Pan: -170° ~ +170°; Tilt: -30° - +90°			
Control Port	RS232, RS485 (Serial VISCA, Pelco-P/D)、RJ45 (VISCA over IP) USB3.0 (UVC1.5), USB2.0 (UVC1.1)		Protocol	HTTP, RTSP, RTMP, SRT, Onvif, Visca TCP, Visca UDP, Visca over IP, Visca Serial, Pelco-P, Pelco-D
White Balance	Auto/Indoor/Outdoor/ Manual/Outauto/ Sodium Lamp Aut/ Sodium Lamp		Exposure	Auto/Manual/ Bright/Shutter/Iris
Preset	Remote controller: 10; RS232: 128; Accuracy: 0.2°		Focus	Auto / Manual
Rotation Speed	Pan: 0°~120°/s ; Tilt: 0°~80/s		Iris	Auto / Manual
Network Speed	1000M			
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	0Kbps-15360Kbps		BLC	Supported
Pan Tilt Flip	Supported		2D Noise Reduction	Supported
POE	Supported		3D Noise Reduction	Supported
Daisy Chain	Supports RS232 serial daisy chain		BLC	Supported
Minimum Lux	0.01 lux		Input Voltage	DC12V/POE
Dimension	220mmx190mmx173mm		Net Weight	1.47KG

Technical Specifications

- Video Format:1920x1080P @ 60fps (Max)
- Video Output: USB3.0,HDMI, SDI, IP
- Sensor: 1/2.8 inch 8.5MP CMOS sensor
- Lens: f3.9-6.1mm (12x Zoom), F1.8 – 2.8
- Field of View: 72.5°
- Rotation Angle: Pan rotation: ±170°; Tilt rotation: -30°~+90°
- Wall mount included; ceiling mount available
- Pan speed: 0.1°-120°/s; Tilt speed: 0.1°- 80°/s
- Preset: 10 via IR remote setting, 128 over VISCA, preset accuracy: 0.1°
- Support Auto/Manual White Balance, Auto/Manual Exposure (Iris, Shutter)
- Control signal port: RS-232, USB3.0, LAN
- Max consumption: 24W
- Working temperature: -5 - 45°C, Storage temperature: -20 - 60°C.
- Net weight: 1.47KG
- Dimension: 220x190x173 mm

Onscreen controls allow settings to be adjusted via keyboard and mouse.

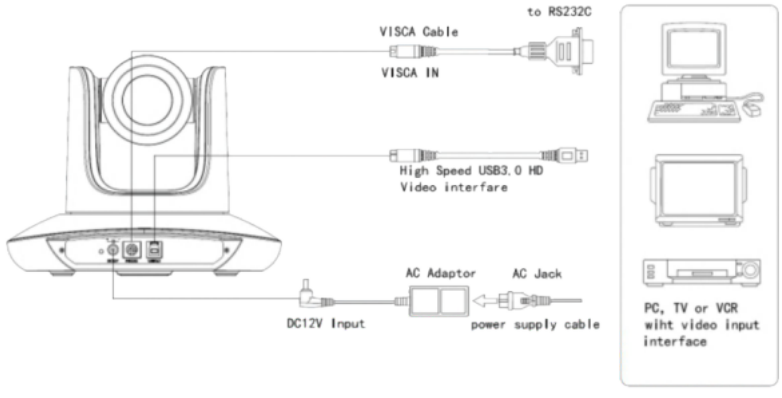
All models are reverse mountable.

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 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 low lux of 0.01 lux.
- IP, HDMI & USB3.0 simultaneous output.
- Far End Camera Control (FECC) via USB 3.0.
- Desktop app control software included to control the camera and video settings.
- Visca control.
- Utilizing belt drive technology the twin motors of the PTZ are ultra quiet, smooth and provide fast movement.
- Larger FOV at 72.5 degrees with no video distortion.
- 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.

SABER LIGHT 5X

U3-5FHD6



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	
Video Interface	USB 3.0 (Compatible with USB 2.0)		
Sensor	1/2.8 inch 2.1MP CMOS Sensor		
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		
Pan/tilt 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°		
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		
Focus	Auto/Manual	2D Noise Reduction	Supported
Iris	Auto/Manual	3D Noise Reduction	Supported
WDR	Supported	Gamma Setting	Supported
BLC	Supported	Mirror Image	Supported
Input Voltage	5V 1000Ma (USB 3.0) 12V DC1A (Power Adapter)	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

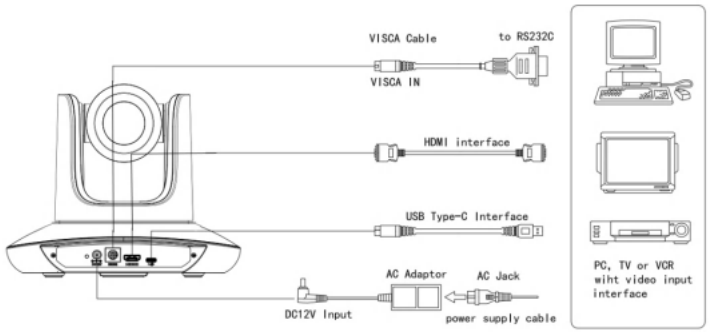
Everything you love about the Saber but at a lean, mean price.
Can be powered solely through the USB 3.0 port.

Product Highlights:

- 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 2MP image sensor, and high quality 5x zoom 90 degree FOV optical lens, provides fluid motion and a crystal clear image.
- 90˚degree FOV.
- 5x Optical Zoom + 2x Digital Zoom.
- Fast and accurate autofocus performance.
- Easy firmware upgrades.

SABER U20

ANG2-20FHD-01



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: MJPG: 1920*1080P60; 1280*960P60; 1280*720P60; 1024*768P60; 800*600P60; 640*480P30; 320*240P60 YUY2: 640*480P30; 320*240P30	
Video	HDMI (v1.4), USB-C		
Sensor	1/2.8 inch 2.1MP CMOS sensor		
Lens	f4.9～98mm(20x), F1.5－3.0, View Angle: 60°(Far)-3.2°(Near)		
Rotation	Pan: -170° ～+170° ; Tilt: -30° －+90°		
Rotation Speed	Pan: 0° ~120° /s ; Tilt: 0° ~80 /s	White Balance	Auto / Manual / ATW / Push / Indoor / Outdoor / Color Temperature
Preset:	Remote controller: 10; RS232: 128; Accuracy: 0.1°	Exposure	Auto/Manual/Bright/Shutter/Iris
Digital Zoom	12x	Iris	Auto / Manual
Video	MJPG, 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
Control Port	RS232 (In), RS485 (Visca, Pelco-P/D), USB-C (Compatible with (UVC1.5), USB2.0 (UVC1.1))	Power over USB-C	Supported

Supports USB Type-C interface power supply.

Product Highlights

- Zoom: 20x Optical Zoom & 12x Digital Zoom
- 60°degree field of view
- HDMI output up to 1920x1080P60 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

NDI®

CAMERA RANGE

NDI Low Latency Protocol

With Angekis cameras being recognized for their class leading video imaging and auxiliary technologies, it makes perfect sense to merge these capabilities with Newtek®'s NDI video over IP protocol.

The Angekis Saber IP20X and Saber 4K+ now come in NDI versions. The Saber IP20X NDI and Saber 4K+ NDI run on the NDI|HX protocol, giving them incredible imaqe quality over efficient bandwidth. The Saber IP20X Full NDI runs on the Full NDI (NDI|HB) protocol, giving this camera ultra low latency video over IP capabilities.

All Angekis NDI cameras combine full spectrum video output interfaces (including LAN, 3G-SDI, HDMI and USB 3.0), making them versatile and perfect for use for just about any live streaming application. All Angekis NDI Cameras support power, video and control via a single Ethernet cable, simplifying set up and installation for live streaming systems.

The Angekis NDI range features broadcast frame rates and NDI video output designed for video production professionals. Utilizing the latest professional camera control technologies, remote camera operation has never been this easy. Broadcasters simply connect to an IP network, then connect using professional 3G SDI, Ethernet connected NDI, and/or traditional HDMI, which can all be used simultaneously. Utilizing optical zoom lenses up to 20x, video production with Angekis cameras can reliably capture close up shots up to 52 feet (16 meters) away.

NDI®

CAMERA RANGE

Saber IP20X FULL NDI

Model	Saber IP20X Full NDI (FNDI-20FHD60)			
Video Format	HDMI(V1.4)	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 Type-C (USB 3.0)	YUY2: 1920*1080P6; 1280*960P10; 1280*720P13; 1024*768P16; 800*600P25; 640*480P30; 640*480P30 MJPG: 1920*1080P30; 1280*960P30; 1280*720P30; 1024*768P30; 800*600P30; 640*480P30; 640*480P30		
	NDI	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		
Supported Protocol	HTTP，HTML5，Visca TCP，Visca UDP，Visca over IP，NDI，Visca Serial，Pelco-P，Pelco-D		Control Port	RS232, RS485 (Serial Visca, Pelco-P/D) RJ45 (VISCA over IP), USB2.0(UVC1.1)
Video Interface	HDMI (V1.4), SDI, Full NDI, USB 3.0 (Compatible with USB2.0)		Exposure	Auto/Manual/Bright/Shutter/Iris
Sensor	1/2.8 inch 2.1MP CMOS sensor		Focus	Auto / Manual
Lens	f4.9～98mm(20X), F1.5- 3.0 View Angle: 60°(Far)-3.2°(Near)		Iris	Auto / Manual
Rotation Angle	Pan: -170° ~ +170°; Tilt: -30° ~ +90°			
Rotation Speed	Pan: 0°~120°/s ; Tilt: 0°~80°/s		Gamma	Supported
Preset	Remote controller: 10; RS232: 128; Accuracy: 0.1°		WDR	Supported
Network Speed	1000M		BLC	Supported
Video encode	IP – H.264/H.265		2D Noise Reduction	Supported
Bit Rate Control	Variable Bit Rate, Constant Bit Rate		3D Noise Reduction	Supported
Video Bit Rate	1024Kbps~10240Kbps		Anti Flicker	OFF/50Hz/60Hz
POE	Supported		Pan Tilt Flip	Supported
Daisy Chain	Support RS232 Serial Daisy Chain		Input Voltage	DC12V/POE(IEEE802.3af)
Minimum Lux	0.1lux		Dimension	220mm × 190mm × 173mm
White Balance	Auto/Indoor/Outdoor/Manual/ Push/Sodium Lamp Auto/ Sodium Lamp		Net Weight	1.47 KG

NDI®
CAMERA RANGE

Saber 4K+ NDI|HX

Saber 4K+ NDI	HX（ANG2-12UHD-01N）		
Sensor	1/2.8inch high quality、8.42 MP CMOS Sensor		
Video Format	HDMI	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	
	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/H265: 3840*2160P30; 1920*1080P60/30;1280*720P60/30; 1024*576P60/30; 800*448P60/30 NV12: 1920*1080P10; 1280*720P25; 1024*576P30; 800*448P30 YUYV: 1920*1080P5; 1280*720P15; 1024*576P25;800*448P30	
	IP(NDI|HX)	Main: 3840*2160P15-60; 1920*1080P15-60; 1280*720P15-60; 1024*576P15-60 Sub: 720*480P15-60; 640*480P15-60; 640*360P15-60	
Video Interface	HDMI，SDI，RJ45（NDI|HX），USB Type-C	Minimum Lux	0.1lux
Audio Interface	3.5mm Line in	Daisy Chain	Support RS232 serial daisy chain
White Balance	Auto / Manual / ATW / Push / Indoor / Outdoor / Color Temperature		
Zoom	12X optical zoom + 4X digital zoom	Exposure	Auto / Manual /Shutter / Iris / Bright
Focal Length	3.4mm~40.3mm	Focus	Auto / Manual
Aperture	F1.8(Wide)~F3.6(Tele)	Iris	Auto / Manual
View Angel	7.6°（Tele)~80.5°((Wide)	Shutter	Auto / Manual
Rotation Angle	Pan: ±170°；Tilt: -30°~+90°；	Gamma select	Supported
Rotation Speed	Pan: 0.1°~120°/s; Tilt: 0.1°~80°/s	BLC	Supported
Preset	Remote controller: 10; RS232: 128;	2D/3D Noise Reduction	Supported
Control Port	RS232 IN, RJ45(NDI|HX)	Anti-flicker	OFF, 50Hz, 60Hz
Network Speed	1000M	Pan Tilt Flip	Supported
Video encode	H.264 / H.265	Mirroring	Supported
Bit Rate Control	Variable Bit Rate, Constant Bit Rate	Input Voltage	DC12V/POE+(IEEE802.3at)
Video Bit Rate	1024~61440kbps	Dimension	220mm×190mm×173mm
Protocol	HTTP，RTSP，RTMP，Onvif，Visca TCP，Visca UDP，Visca over IP，NDI|HX，Visca Serial，Pelco-P，Pelco-D，SRT Compatible		
POE+	Supported	Net Weight	1.47KG

NDI®
CAMERA RANGE

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	
	IP (NDI|HX)	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)	Exposure	Auto / manual / bright / shutter / iris
Sensor	1/2.8 inch, 2.1MP CMOS Sensor		
Daisy Chain	Supports RS232 Serial Daisy Chain	Focus	Auto / Manual
		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
Preset	Remote Control : 10, RS232: 128, Accuracy: 0.1°	BLC	Supported
Network Speed	1000M	Anti Flicker	OFF/50Hz/60Hz
Video Encoding	H.264&H.265	Pan Tilt Flip	Supported
Bit Rate Control	Variable Bit Rate, Constant Bit Rate	Input Voltage	DC12V/POE
Video Bit Rate	1024Kbps~10240Kbps	Dimensions	220mm×190mm×173mm
POE	Supported	Net Weight	1.47 KG
Control Port	RS232, RS485 (Serial Visca, Pelco-P/D), RJ45 (VISCA over IP), USB3.0 (UVC1.5), USB2.0(UVC1.1)	IP Protocol	HTTP, RTSP, RTMP, Onvif, Visca TCP, Visca UDP, Visca over IP, NDI|HX, Visca Serial, Pelco-P, Pelco-D, SRT Compatible

COMPARISON CHART

	Saber 4K+	Saber 4K+ NDI	Saber U20	Saber IP20X	Saber IP20X NDI	Saber IP20X Full NDI	Saber Plus	Saber Light
Picture								
Target Market	High End Pro AV & Conference Environments	High End Pro AV & Livestreaming Environments	Medium to Large Conference Rooms	High End Pro AV & Conference Environments	High End Pro AV & Livestreaming Environments	High End Pro AV & Livestreaming Environments	Medium to Large Conference Rooms	Small to Medium Conference Rooms
Optical and Digital Zoom	12x Optical + 4x Digital	12x Optical + 4x Digital	20x Optical + 12x Digital Zoom	20x Optical + 2x Digital	20x Optical + 2x Digital	20x Optical + 2x Digital	12x Optical + 2x Digital	5x Optical + 2x Digital
Video Output	HDMI, SDI, RJ45 (LAN), and USB-C and Simultaneous Output (1080p)	HDMI, 3G-SDI, RJ45 (NDI|HX), and USB-C and Simultaneous Outputs	USB2.0 (Type-C*), HDMI * Power over USB-C	HDMI, SDI, RJ45 (LAN), and USB 3.0 and Simultaneous Output (1080p)	HDMI, SDI, RJ45 (NDI|HX), and USB 3.0 and Simultaneous Output (1080p)	HDMI, SDI, RJ45 (NDI|HB), and USB 3.0 and Simultaneous Output (1080p)	HDMI, SDI, RJ45 (LAN), and USB 3.0 and simultaneous Output (1080p)	USB 3.0 * Power over USB
Pan Rotation Degree	340°	340°	340°	340°	340°	340°	340°	340°
View Angle	80.5° HFOV no distortion	80.5° HFOV no distortion	60° HFOV no distortion	60° HFOV no distortion	60° HFOV no distortion	60° HFOV no distortion	72.5° HFOV no distortion	90° HFOV no distortion
Max Resolution	4K 60fps（HDMI&IP）, 4K 30fps USB-C, 1080p 60fps 3G SDI	4K 60fps（HDMI&IP）, 4K 30fps USB-C, 1080p 60fps 3G SDI	1080p @ 60fps	1080p 60fps over SDI, USB 3.0, HDMI&IP	1080p 60fps over SDI, USB 3.0, HDMI&IP	1080p 60fps over SDI, USB 3.0, HDMI&IP	1080p 60fps over SDI, USB 3.0, HDMI	1080p @ 60fps
Video Format	H.264, H.265, YUYV, NV12, MJPG, IP	H.264, H.265, YUYV, NV12 (IP: NDI|HX)	MJPG, YUY2	H.264, H.265, YUY2	H.264, H.265, YUY2 (IP: NDI|HX)	H.264, H.265, YUY2 (IP: NDI|HB)	H.264, H.265, YUY2	YUY2 uncompressed
Control	IR Remote, RS232 & 485 VISCA, Angekis NECC onscreen app control, IP protocols	IR Remote, RS232 & 485 VISCA, Angekis NECC onscreen app control, IP protocols	IR Remote, RS232 & 485 VISCA, Angekis NECC onscreen app control	IR Remote, RS232 & 485 VISCA, Angekis NECC onscreen app control, IP protocols	IR Remote, RS232 & 485 VISCA, Angekis NECC onscreen app control, IP protocols	IR Remote, RS232 & 485 VISCA, Angekis NECC onscreen app control, IP protocols	IR Remote, RS232 & 485 VISCA, Angekis NECC onscreen app control, IP protocols	IR remote, VISCA and desktop app control
OSD Menu	English, Chinese, Spanish, Russian	English, Chinese, Spanish, Russian	English, Chinese, Spanish, Russian	English, Chinese, Spanish, Russian	English, Chinese, Spanish, Russian	English, Chinese, Spanish, Russian	English, Chinese, Spanish, Russian	English, Chinese
Preset	10 on Remote, 128 VISCA	10 on Remote, 128 VISCA	10 on Remote, 128 VISCA	10 on Remote, 128 VISCA	10 on Remote, 128 VISCA	10 on Remote, 128 VISCA	10 on Remote, 128 VISCA	10 on Remote, 128 VISCA
UltraOptix 3D Noise Reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction
BLC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Exposure Compensation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Transfer / IR Pass	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Daisy Chain via RS232	Yes (Up to 7 Cameras)	Yes (Up to 7 Cameras)	No	Yes (Up to 7 Cameras)	Yes (Up to 7 Cameras)	Yes (Up to 7 Cameras)	Yes (Up to 7 Cameras)	No
Far End Camera Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video "Mute"	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remote Control Sharpness, WDR, Backlight	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Camera Select	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Dynamic Startup	No	No	No	No	No	No	No	No
Reverse Mountable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Day/Night Switch	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years

COMPARISON CHART

	Blade 4K	Blade VS+	One Touch	Compact One	Torpedo
Picture					
Target Market	High End Video Conference Environments	Medium to Large Conference Rooms	Huddle Rooms	Huddle Rooms	Personal Use
Optical and Digital Zoom	15x HD Lossless, 5x 4K Optical	10x Optical + 12x Digital * Power over USB-C	5x Lossless	4x Lossless	3x Digital
Video Output	USB 3.0	USB 2.0 (USB-C), HDMI * Power over USB	USB-C * Power over USB	USB 2.0 type B * Power over USB	USB-C * Power over USB
Pan Rotation Degree	340°	340°	N/A	N/A	N/A
View Angle	86.5° HFOV no distortion	62.5° HFOV no distortion	120° HFOV no distortion	120° HFOV no distortion	65° HFOV / 80° Diagonal
Max Resolution	4K 30fps	1080p 60fps	4K 30fps	4K 30fps	4K 30fps
Video Format	MJPG, YUV	MJPG, YUY2	YUY2, MJPG, H.264	YUY2, MJPG, H.264, H.265	YUY2, MJPG
Control	ZoomRooms UVC, IR remote control Controller VISCA via RS232 & 485, Angekis NECC onscreen app control,128 presets via RS232 Joystick	ZoomRooms UVC, VISCA via USB 2.0 & RS232, Angekis NECC onscreen app control, IR Remote, 128 presets via RS232 Joystick	RF Remote, Angekis NECC onscreen app control, OSD Menu	IR Remote, Angekis NECC onscreen app control, OSD Menu	N/A
OSD Menu	English, Chinese	English, Chinese	English, Chinese	English, Chinese	N/A
Preset	10 on Remote, 128 VISCA	10 on Remote, 128 VISCA	3 Presets	3 Presets	N/A
UltraOptix 3D Noise Reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto & Manual 2D+3D noise reduction	Auto
BLC (Back Light Compensation)	Yes	Yes	Yes	Yes	Yes
Exposure Compensation	Yes	Yes	Yes	Yes	Yes
IR Transfer / IR Pass	Yes	Yes	No	No	No
Daisy Chain via RS232	No	No	No	No	N/A
FECC (Far End Camera Control)	Yes	Yes	No	No	No
Video "mute"	Yes	Yes	Yes	Yes	No
Remote Control Sharpness, WDR, Backlight	Yes	Yes	Yes	Yes	N/A
Camera Select	No	No	No	No	No
Dynamic Startup	Yes	No	No	No	No
Reverse Mountable	Yes	Yes	Yes	Mounting Receiver	Mounting Receiver
Day/Night Switch for Surveillance	Yes	Yes	No	No	No
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years

Introducing the all new BLADE.

The new Angekis Blade range gets a complete redesign.

This isn't just a tune up - it's a technological overhaul.

FlexiControl

Our groundbreaking FlexiControl system enhances your conferencing experience, giving you an incredible range of options for precision camera control.

FlexiControl features:

- VISCA over USB and RS-232.
- Our proprietary Near End Camera Control App (NECC) - available free on our website.
- ZoomRoom support.
- Remote control support.

UltraOptix

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.

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.

BLADE VS+

U2-10FHD3

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 Type-C	MJPG: 1920*1080P60; 1280*960P60; 1280*720P60; 1024*768P60; 800*600P60; 640*480P30; 320*240P60 YUY2: 640*480P30; 320*240P30	
Video Interface	HDMI, USB-C	White Balance	Auto/Manual
Sensor	1/2.8 inch, 2.1MP CMOS	Focus	Auto/Manual
Lens	F4.7~47.mm(10X),F1.8-14, HFOV:62.5° (Wide)-6.43° (Tele)	Iris	Auto/Manual
Zoom	10x Optical + 12x Digital	WDR	Supported
P/T Rotation	Pan: ±170° ; Tilt:-30° ~+90° , Reverse Mountable	BLC	Supported
P/T speed	Pan: 0.1° -120° /s; Tilt: 0.1° -80° /s	2D/3D DNR	Supported
Presets	10 via IR remote setting, 128 via VISCA control, preset accuracy: 0.1°	Input Voltage	DC12V, Power over USB-C Supported
Control Port	RS-232, USB-C	Working Humidity	80%
Protocol	Serial VISCA, Pelco-P/D, UVC1.1	Working Temp	-10° C~50° C
Min. Lux	0.01 lux	Dimension	200mm x 143mm x 152mm
		Net Weight	1.25KG

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.

Product Highlights:

- Zoom:10x Optical Zoom & 12x Digital Zoom
- 62.5 degree field of view
- 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

Flexi Control

UltraOptix

Dynamic Startup

BLADE 4K

U3-UFHD36

Blade 4K U3-UFHD36		
Resolution	MJPG	3840x2160p @ 30fps, 1080p @ 30fps, 720p @ 30fps, 640*480p @ 30fps with USB 3.0
	YUV	1080p 30/25fps, 720p 30/25fps, 640x480p 30fps
Video Interface	USB 3.0	
Sensor	1/2.8 inch, 8.42MP CMOS	
Lens	F4.7~47.mm(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	
Presets	10 via IR remote setting, 128 via VISCA control, preset accuracy: 0.1°	
Control	RS232, RS485, UVC	
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	
Dimension	200mm x 143mm x 152mm	
Net Weight	1.25KG	

Breaking new ground in optics and performance.

The new Blade series delivers class leading opticsand crystal clear life-like video.Your next in person meeting will feel dull by comparison. We've deliveredsignificant 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. Improvements to the camera's optics produce brilliantly sharp images in a small,smart and solid form factor at an impressive price.

Did we mention the 3 year warranty?

Product Highlights:

- 86.5 Degree wide angle FOV.
- 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.
- Zoom Room remote Controller supported.
- Angekis 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.

Flexi Control

UltraOptix

Dynamic Startup

AnyAngle

AUDIO
SOLUTIONS

CLEARTALK
WIRELESS ASP-04

2.4 GHz wireless digital conference speakerphone with omnidirectional MICs and wireless charging dock

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
- Speaker: Built in high powered speakers
- 3 x omnidirectional microphones
- 7-10 hours battery life

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

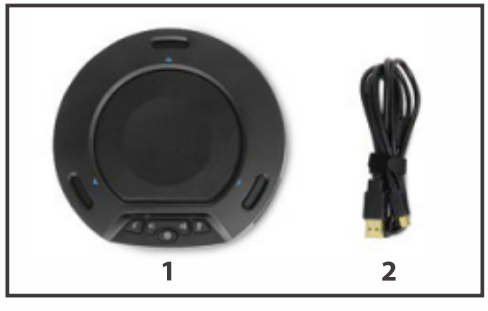
CLEARTALK
WIRED ASP-05

Digital conference speakerphone with omnidirectional MICs

The ASP-05 is a wired speakerphone designed for huddlespaces 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



1. Speakerphone
2. USB Charging Cable

CLEARTALK
ANCHOR ASP-06

Portable USB speakerphone with Bluetooth and dongle

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 the 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

Speakerphone with USB cable & wireless dongle.

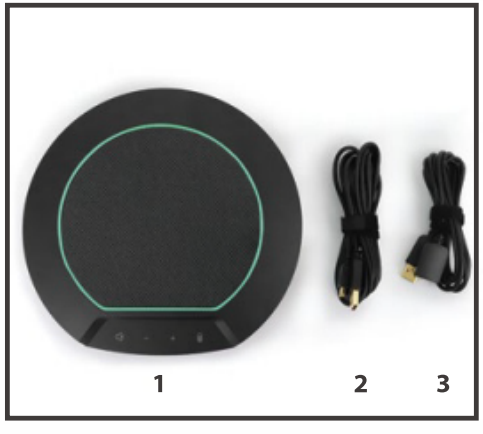
CLEARTALK
HD ASP-10

All in one speakerphone designed for professional video conferences in medium to large boardrooms

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



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

CLEARTALK
WIRELESS DC ASP-04D-2

2.4 GHz wireless digital conference speakerphones
with omnidirectional MICs

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 omni directional
- 7-10 hours battery life

1. Speakerphone
2. USB Charging Cables
3. Power Adaptor
4. 2.4ghz Wireless Dongle

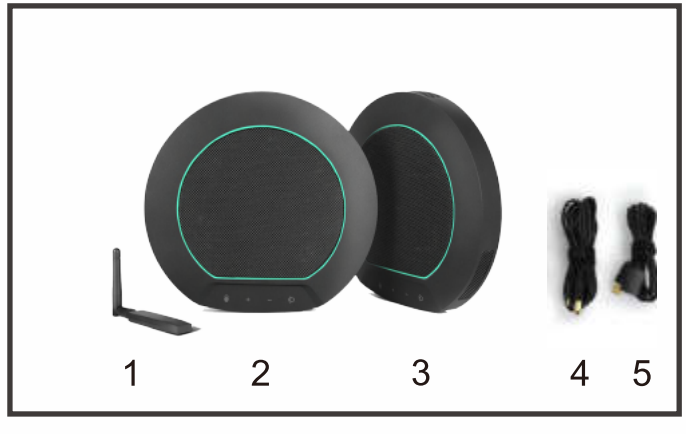
CLEARTALK
HD DC ASP-10D-2

2X all in one speakerphones, designed for professional video conferences and daisy chained together to cover the largest conference rooms

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



1. 2.4 GHz Dongle
2. Speakerphone
3. Speakerphone
4. USB Cable
5. USB Cable

CLEARTALK

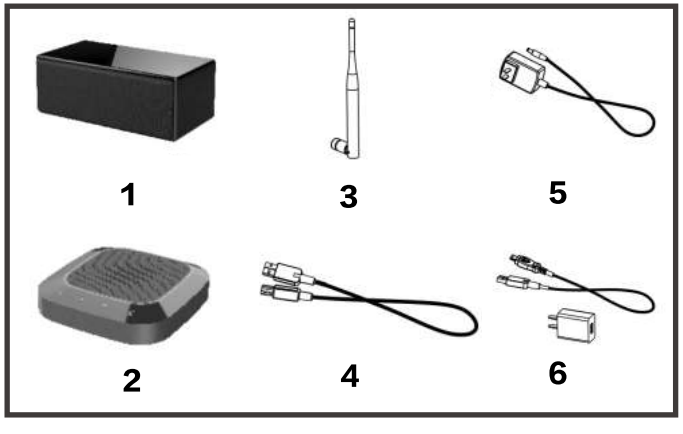
DC 4 UNITS ASP-04D-4S

Professional Conference Audio System

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 4 x 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



1. Loudspeaker Controller*1
2. Wireless microphone agent*4
3. Controller antenna*1
4. Controller USB cable*1
5. Controller power adapter*1
6. Agent power adapters*4

Ceiling Mic Pro
ASP-C-01

High tech audio processing and recording for large areas.

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
- High noise reduction
- 10m pickup radius
- Adaptive algorithm
- Adaptive speech gain adjustment
- Smart mixing
- 6 way balanced output

Includes:
ASP-C-01 Master, Hanging Mic, Power Adaptor
Speaker Line, REC Line, AEC line, b-type USB line, mixer line

Ceiling Mic HD
ASP-C-02

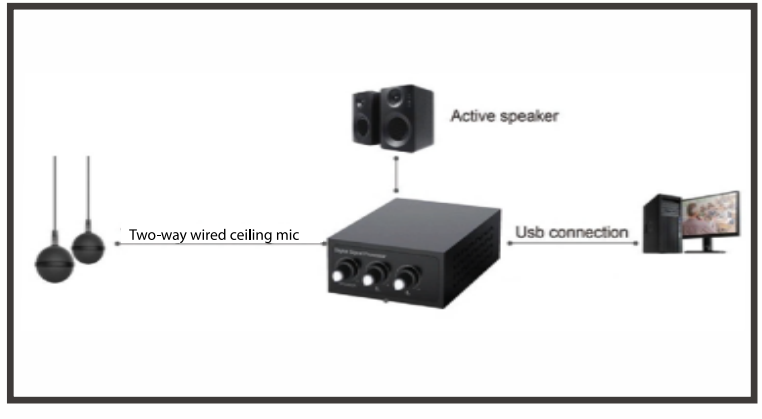
Third generation AUCTOPUS audio processor

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
- Adopts bare wire phoenix interface
- High noise reduction
- 10m pickup radius
- 3rd Generation AUCTOPUS audio processing
- Adaptive speech gain adjustment
- Smart mixing
- 6 way balanced output

Includes:
ASP-C-02 Master, Hanging Mic *2, Power Adaptor
Speaker Line, b-type USB line *1



Ceiling Mic QS

ASP-C-04

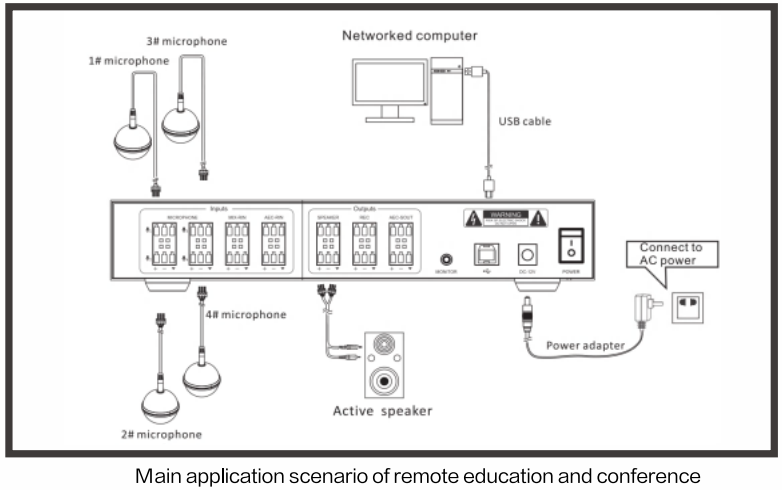
High-quality audio processor

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.

Efficient Layout

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

Includes:
ASP-C-04 Master, Hanging Mic*4,Power Adaptor,
USB B-A Cable, Microphone Cable,Phoenix Terminal,
RCA Plug to Phoenix Terminal Cable, 3.5mm Audio Cable



Main application scenario of remote education and conference

Angekis®

WEB

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