

# Angekis®

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# WHY Angekis



## Leaders in USB Video Conferencing

The founder of Angekis has extensive experience working in the USB Video device market for over 10 years, specialising in UVC USB cameras. In fact we helped pioneer the USB PTZ camera with one of the first USB video conference camera models released on the market way back in 2011. Since then our team have continued to pave the way advancing technology for camera chipset solutions in the realms of AF,AE,AWB &UVC control command and much more. With a huge amount of experience, we decided in 2015 to start our own brand.

## Class Leading Warranty

We are so confident in our product range, that we offer a class leading **3 year manufacturers warranty** on the entire range. We understand our products are a long term investment and they are built to last, so rest assured when you buy from us, we have your back!

## Award Winning Range

In our first year of launching at the ISE expo in Amsterdam we won best in show in the Video Conferencing category for the Saber 12x model, edging out world famous competitors. We then won again in 2018 with the Saber Auto-Pilot regarded as the best tracking camera in its class. We are still in the early days, so look out for more ground breaking products and awards to come!

## Easy Integration

Already using a system in your video conference environment which you love, such as Cisco, Skype, Zoom? No problem! The Angekis range of cameras connect as plug and play solutions and can integrate easily with most VC solutions. If you have a specific solution you need to check works, just ask us. Did you know we are an official Zoom technology partner? Ask us about our Zoom room solutions!

## Complete Solution

Our range is designed to set a global standard for performance, quality and value that span to applications of all types from Unified Communication, to IP streaming, Education solutions, live events and even on the go micro solutions for sales people.

Whether you are looking for a high end 4K flawless video confernece solution to a robotic PTZ camera or an on the go all in one audio/video huddle solution, Angekis has the most complete camera line for the AV market today.



# ONE TOUCH AOT-01



## 4K video, dynamic audio and mic. 1 cable. 1 touch.

Seamless. It's a word we want to hear when discussing the A/V setup for huddle rooms and now we have the solution that fits. Boasting a 4 x advanced beam forming mic array that focuses audio pickup directly from the speaker to block out background noises. Further combined with dynamic noise reduction, 360 degree pickup and full duplex two way chatting, suddenly you have an all in one A/V bar that just works....with one touch.

### HD voice with Angekis Audio processing technology

- Array microphone algorithm can sample and process the spatial characteristics of the sound field.
- It can remove the ambient background sound to the maximum extent, leaving only the required sound waves.
- 360 ° intelligent sound pickup with 5 meters range, no apparent volume and sound quality decline from 3m.
- 48KHz uplink and 48KHz downlink audio sampling rate.
- Perfect full-duplex so that two-way chatting will no longer cuts into eachother.
- Clearer voice with intelligent dynamic noise reduction.
- Room filling sound up to 92dB(0.5m).

### 4K conferencing video capture with real life clarity.

The 2160P camera provides users with exceptional quality online video meetings, high-definition real-time synchronization and clear and smooth framing . Of course, it is compatible with all popular video conference software such as Skype, Zoom, etc.

### One touch

Enjoy efficient deployment, by simply plugging it in to to get instant audio and video, plug n play style. No need for any separate mics or speakers or even cables to clutter the table. Fits neatly and discreetly above or below your screen.



### Group Autoframing

No manual pan, tilt or zooming required. Simply walk into the room and take a seat. The one touch will automatically make the necessary adjustments to perfectly capture each person at the table.

### Features:

- 120° wide-angle distortionless video supporting MJPG,H.264,H.265 4K 30fps.
- 5 x Digital Zoom in Full HD.
- 4 x beam forming mic array algorithm.
- Full duplex, high fidelity conference audio. Like you are in the same room.
- High fidelity and high reduction voice; clearer and purer, like taking a face-to-face meeting.
- USB HID Reverse control maintains consistent audio with computer volume
- New Angekis audio processing algorithm.
- 360° high coverage, long pickup with 384ms echo cancellation and dynamic noise reduction.
- Group auto-framing with smooth as silk transitions.
- Professional mount options (wall, panel, desktop).

# SABER 4K

Saber-12UFHD36

Model	Saber-12UFHD36			
Sensor	1/2.5 inch, 12mega pixel high quality CMOS sensor			
Video Format	HDMI	IP	SDI	USB3.0
	3840x2160p30/25, 1080p60/50/30/25, 720p60/50/30/25, 1080i60/50	Main stream: 3840x2160p30, 1920x1080p60, Sub stream: 1280x720,704x576 640x480,352x288 30fps	1080p60/50/30/25; 720p60/50/30/25 1080i60/50	1080p60/50/30/25 720p60/50/30/25  USB3.0&USB2.0  1024x576p30 960x540p30 640x360p30 352x288p30
Zoom	12x optical zoom & 2x digital zoom		Gamma	Supported
FOV	6.3°(near)~72.5°(far)		Mirror Image	Supported
F.no.	Wide: 1.84	Tele: 2.81	PanTilt Flip	Supported
Min. Focus Distance	Wide: 0.3m	Tele: 1m	Iris	Auto / Manual/
Preset	10 via remote controller; 128 via serial port; preset precision:0.1°		Electric Shutter	Auto / Manual/
Rotation Angle	Pan: -170° ~ +170°; Tilt: -35° ~ +90°		BLC	Auto / Manual/
Rotation Speed	Pan: 0°~120°/s ; Tilt: 0°~80°/s		Focus	Auto / Manual/
Control Port	RS232 / RS485/RJ45		Video Encoding	H.264/H.265
Video Port	HDMI/ RJ45/SDI/USB3.0/USB2.0		Bit Rate Control	Variable Bit Rate, Constant Bit Rate
Network Speed	1000M		Video Bit Rate	1024Kbps~30720Kbps
Noise Reduction	2D&3D		Frames	50HZ:1fps~50fps 60HZ:1fps~60fps (3840x2160 max. 30fps)
SNR	>50dB		IP Protocol	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP
Focal Length	f=3.92(near)~47.32mm(far)		POE	Supported
Minimum Lux	0.01 lux		Input Voltage	DC12V, 2A
White Balance	Auto / Manual/Auto Tracking/ OnePush/Indoor/Outdoor/		Dimension	220mm×173mm×190mm
Anti Flicker	50Hz/60Hz/OFF		Net Weight	1.25KGS (2.8LBS)



The Saber 4K boasts a UHD 4K image via IP and HDMI. The trend towards bigger and better resolution is coming as fast as ever. To future proof, many companies are seeking 4K technology as they know it will last and avoid continuous upgrades.



Saber 4K is a professional grade Ultra HD Video Camera that supports IP, HDMI, SDI and USB 3.0 outputs which is ideal for broadcasting, high end video conferencing and video surveillance application.

## Features:

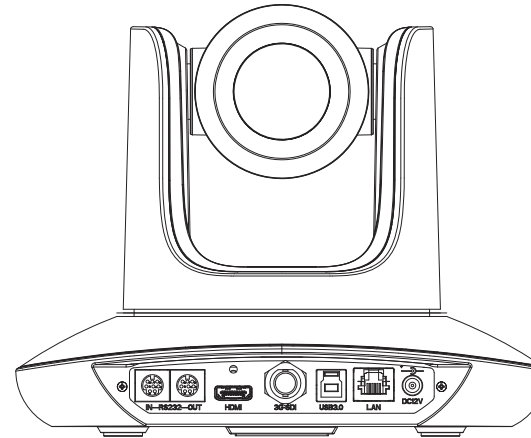
- Outputs: IP, HDMI, RS232 in & out, SDI, USB 3.0 and LAN
- 12x Optical Zoom + 2x Digital Zoom, 72.5° eld of view
- 3840 x 2160 p30 Ultra HD Video Resolution
- Automatic access to IP Address
- Smooth PTZ Mechanical Design
- Reverse Ceiling Mount Mode
- Accurate Pan Tilt Motor Control
- WDR, 3D Noise Reduction feature
- 128 Pre-sets
- Support RS232/485 Serial Control
- Sony Visca and Pelco P/D Protocol
- Supports Daisy Chain Feature
- Day/night switch for surveillance market



# SABER IP 20x

IP-20FHD60

Sensor	1/2.8 inch, 5mega pixel high quality CMOS sensor			
Video Format	HDMI	IP	SDI	USB3.0
	1080p60/50/30/25, 720p60/50/30/25, 1080i60/50	Main stream: 1920x1080p30, Sub stream: 1280x720,704x576 640x480,352x288	1080p60/50/30/2 5; 720p60/50/30/25 1080i60/50	1080p60/50/30/25 720p60/50/30/25 USB3.0&USB2.0 1024x576p30, 960x540p30 640x360p30, 352x288p30
	Zoom	20x optical zoom & 2x digital zoom	Gamma	Supported
	FOV	60°(diagonal)	Mirror Image	Supported
F.no.	Wide: F1.5(Wide)~3.0 (Tele)	PanTilt Flip	Supported	
Focal Length	f=5.2(near)~98mm(far)	Iris	Auto / Manual/	
Preset	10 via remote controller; 128 via serial port; preset precision:0.1°	Electric Shutter	Auto / Manual/	
Rotation Angle	Pan: -170° ~ +170°; Tilt: -35° ~ +90°	BLC	Auto / Manual/	
Rotation Speed	Pan: 0°~120°/s ; Tilt: 0°~80°/s	Focus	Auto / Manual/	
Control Port	RS232 / RS485/RJ45	Video Encoding	H.264/H.265	
Video Port	HDMI/ RJ45/SDI/USB3.0/USB2.0	Bit Rate Control	Variable Bit Rate, Constant Bit Rate	
Network Speed	1000M	Video Bit Rate	1024Kbps~30720Kbps	
Noise Reduction	2D&3D	Frames	50HZ:1fps~50fps 60HZ:1fps~60fps	
SNR	>50dB	IP Protocol	TCP/IP, HTTP, RTSP, Onvif, DHCP	
Minimum Lux	0.01 lux	POE	Supported	
White Balance	Auto / Manual/Auto Tracking/ OnePush/Indoor/Outdoor/	Input Voltage	DC12V, 2A	
Anti Flicker	50Hz/60Hz/OFF	Dimension	220mm×173mm×190mm	
D/N Mode	Supported	Net Weight	1.25KGS ( 2.8LBS )	



## The live streaming camera with a variety of functions.

The Angekis IP 20x full HD camera offers smooth pan/tilt/zoom and powerful 20x zoom. The open interface makes it easy to integrate with other systems and share information with a broader audience such as in auditoriums, classrooms, as well as peer-to-peer communication in video conferencing.

### Advantages:

- Ultra crystal video: with advanced 1/2.8 inch 8MP sensor and high quality 20x lens
- Fast switching between different formats only 3 seconds needed
- Fast and accurate focus  
Easy firmware upgrade (eld upgradable):no need to open the camera housing.
- USB2.0 compatible
- Daisy Chain function: with both Visca in and Visca out port
- Compatible with the majority of videoconferencing software (UVC1.1 protocol standard)
- With powerful functional remote controller
- Multi language OSD menu: support English, Chinese, Russian, Spanish

# SABER IP 20X

IP 20X FHD IP PTZ Video Camera

### Features:

- USB3.0 & DVI-I(HDMI) simultaneous output
- Zoom: 20X Optical Zoom + 2X Digital Zoom
- 1920x1080p 60fps high resolution
- 57.4 Degree eld of view:
- Ultra smooth PTZ mechanism
- Accurate PT motor control
- Up to 128 presets
- Eective RS232/485 serial control
- WDR, 3D-noise reduction function
- Image ip function support upside-down installation
- Mounts: Wall mount & in-ceiling mount available
- Sony Visca and Pelco P/D protocol controls



Now available in white

# SABER PLUS

U3D-12FHD6



## Technical Specifications

- Video Format: 1080p59.94/50/29.97/25; 720p59.94/50/29.97/25
- Video Output: USB3.0 HDMI, SDI, IP
- Sensor: 1/2.5 inch 8.5MP CMOS sensor, providing 1920x1080P @60fps
- Lens: f3.9-6.1mm (12x Zoom), F1.8 – 2.8
- Angle of View: 72.5°
- Rotation Angle: Pan rotation: ±170°; Tilt rotation: -30°~+90°, support up-side down installation
- Pan speed:0.1°-150°/s; Tilt speed: 0.1°- 80°/s
- Pre-set: 10 via IR remote setting, (255 via COM setting, pre-set accuracy: 0.2°)
- Support Auto/Manual White Balance, Auto/Manual Exposure (Iris, Shutter)
- Control signal port: USB UVC FECC and 8 pin mini DIN-RS232-VISCA/Pelco-D/Pelco-P protocol
- Max consumption: 24W
- Working temperature: -5 - 45°C, Storage temperature: -20 - 60°C
- Net weight: 1.5KG
- Dimension: 220x190x173 mm



Onscreen controls allow settings to be adjusted via keyboard & mouse (or remotely)



All models are reverse mountable

**Winner of Best USB PTZ Camera at the ISE Expo in the Netherlands..**

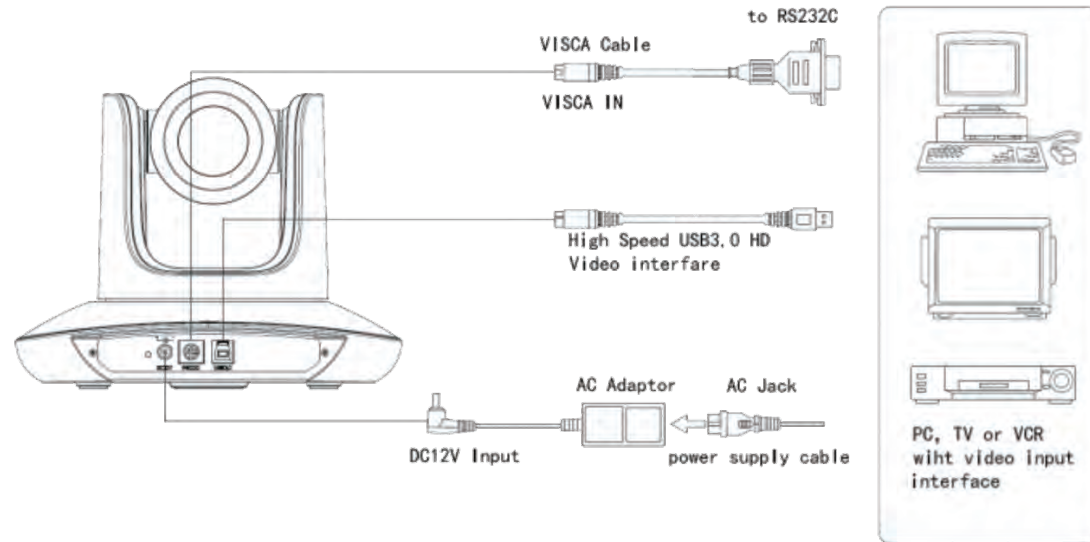
**The first direct connect USB 3.0 HD PTZ video conference camera with a desktop app control. The Saber breaks new ground by leaving behind overly complicated and expensive traditional PTZ video conference solutions.**

1. Sleek and intelligent design
2. Crystal clear HD image quality via IP, HDMI, SDI and USB 3.0.
3. Low light ability. Excellent image quality even at low lux of 0.01 lux.
4. IP, HDMI & USB3.0 simultaneous output.
5. Far end camera control via USB3.0 UVC ability based on Codecs FECC (For example zoom.us)
6. Desktop app control software included to control the camera and video settings..
7. Visca control
8. Utilizing belt drive technology the twin motors of the PTZ are ultra quiet, smooth and provide fast movement.
9. Larger FOV at 72.5 degree with no video distortion
10. 2D and 3D NR offers the best video quality to adjust to different room lighting.
11. Fully operational remote control with power off function, setting the camera back to the start position.
12. Reverse mountable,tripod screw thread at the bottom



# SABER LIGHT 5x

U3-5FHD6



# SABER Light

Professional HD USB 3.0 PTZ Camera

**It gives you 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 of the Saber 12x.
- 3 cables in 1 design: video, control & power can be transited via a single USB3.0 cable.  
(notice: to achieve stable power supply via USB3.0 cable, we suggest only use the 3m USB3.0 cable supplied by the factory)
- Adopts advanced DSP, 1/2.8 inch 5MP image sensor, and high quality 5X 90 degree FOV optical lens, provides uent and crystal image quality
- Fast switching between different video formats: less than 1 second
- 90 FOV
- 5X Optical Zoom + 2X Digital Zoom
- Fast and accurate focus performance
- Easy rmware upgrade



# NDI<sup>®</sup>

## CAMERA RANGE



With Angekis winning the ISE Best in Show Awards for 2016 and 2018 and having become widely known as a brand with class leading imagery in their cameras, it made perfect sense for Newtek to partner with the best. The Angekis Saber IP and Saber 4K PTZ cameras now come in NDI versions.

The Angekis NDI PTZ cameras include 4K to 1080p FHD versions and the cameras offer 20X or 12X optical zoom and can output HD video and audio while receiving the control signal and power over a single connection.

Both the Saber 4k and Saber IP combine full video output interface (NDI, 3G-SDI, HDMI and USB3.0), for various live streaming applications and utilise simultaneous output. Integrated with NewTek's NDI<sup>®</sup>, the Angekis NDI PTZ cameras create a plug-and-play environment for live streaming, making it possible to produce abundant and diverse live content.

All Angekis NDI Cameras support power, video/audio and control, via a single Ethernet cable, simplifying setup and installation for live streaming systems. The Angekis NDI range feature broadcast frame rates and NDI video outputs for video production professionals to deploy.

Utilizing the latest professional camera control technologies, remote camera operation has never been this easy. Broadcasters simply connect to an IP network, then choose from professional 3G SDI connected workflows Ethernet connected NDI workflows and traditional HDMI workflows, all simultaneously. Utilising optical zoom lenses up to 20X, video productions can now remotely capture a close up shot at up to 52' (16 meters) away.



**SABER 4K NDI** : NDI-12UFHD36



**SABER IP NDI** : NDI-20FHD60

# COMPARISON CHART

SABER 4K

SABER IP 20x

SABER Plus

SABER Light 5x

BLADE 4K

BLADE VS

ONE TOUCH



Picture							
<b>Target Market</b>	High End Video Conference Environments	High End Video Conference Environments	Medium to Large Conference rooms	Small to Medium Conference rooms	High End Video Conference Environments	Medium to Large Conference rooms	Huddle Rooms
<b>Optical &amp; Digital Zoom</b>	12x optical + 2x digital	20x optical + 2x digital	12X optical + 2x digital	5x Optical + 2x digital	15x HD Lossless, 5x 4K Optical	10x Optical + 10x Digital	5 x Full HD Lossless
<b>Video Output</b>	IP, HDMI, SDI and USB3.0 and simultaneous output (1080p 30)	IP, HDMI, SDI and USB3.0 and simultaneous output (1080p 30)	IP, HDMI, SDI and USB3.0 and simultaneous output (1080p 30)	USB3.0	USB3.0, IP	USB2.0	USB 3.0 Type C
<b>Pan Rotation Degree</b>	340°	340°	340°	340°	350°	350°	-
<b>View Angle</b>	72.5°HFOV NO distortion	60°HFOV NO distortion	72.5°HFOV NO distortion	90°HFOV NO distortion	86.5°	62.5° NO distortion	120° NO distortion
<b>Maximum resolution</b>	4K 30fps(HDMI&IP), 1080P 60fps USB3&3G SDI	1080P 60fps over SDI, USB 3.0, HDMI	1080P 60fps over SDI, USB 3.0, HDMI	1080P 60fps	4K 30fps	1080p 30fps	4K 30fps
<b>Video Format</b>	H.264, H.265 over IP, YUY2 USB3	H.264, H.265 over IP, YUY2 USB3	YUY2 uncompressed over USB 3.0	YUY2 uncompressed	YUY2, MJPG,H.264&H.265(IP)	YUY2, Mjpeg	YUY2, MJPG, H.265(IP)
<b>Control</b>	IR remote,Visca and desktop app control NECC. RJ45 Support Control, video stream and POE-Power Over Ethernet.	IR remote,Visca and desktop app control NECC. RJ45 Support Control, video stream and POE-Power Over Ethernet.	IR remote, Visca and desktop app control	IR remote ,Visca and desktop app control	ZoomRoom RF Controller supported Visca via USB2.0 & RS232 Angekis NECC onscreen app control RF remote 128 presets via RS232 joystick	ZoomRoom RF Controller supported Visca via USB2.0 & RS232 Angekis NECC onscreen app control RF remote 128 presets via RS232 joystick	RF remote, desktop app control NECC. OSD Menu
<b>OSD Menu</b>	English, Chinese, Spanish, Russian	English, Chinese, Spanish, Russian	English, Chinese, Spanish, Russian	English, Chinese	English, Chinese	English, Chinese	English, Chinese
<b>Preset</b>	10 on remote,128 from Visca	10 on remote,128 from Visca	10 on remote,128 from Visca	10 on remote,128 from Visca	10 on remote,128 from Visca	10 on remote,128 from Visca	10 presets
<b>3D Noise Reduction/Ultra Optix</b>	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
<b>Electronic Shutter</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>BLC (Back Light Compensation)</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Exposure Compensation</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>IR Transfer/IR Pass</b>	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>Daisy Chain via RS232</b>	Yes (Up to 7 Cameras)	Yes (Up to 7 Cameras)	Yes (Up to 7 Cameras)	No	No	No	No
<b>FECC (Far end camera control)</b>	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>Video "mute"</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Sharpness, WDR, Backlight refine via remote</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Camera select</b>	Yes	Yes	Yes	No	No	No	No
<b>Dynamic Startup</b>	No	No	No	No	Yes	No	No
<b>Reverse Mountable</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Day/Night switch for Surveillance</b>	Yes	Yes	No	Yes	Yes	Yes	No
<b>Warranty</b>	3 years	3 years	3 years	3 years	3 years	3 years	3 years

# Introducing the all new **BLADE**.

The new Angekis Blade range is not just rediscovered, its completely redened.

It isn't just a facelift, it's a complete makeover. Utilising state of the art technology, here are just a few of the new features....



## **FlexiControl**

Our groundbreaking FlexiControl system enhances your conferencing experience, giving you the ultimate versatility for controlling the camera. FlexiControl features:

- ZoomRoom remote RF Controller supported via ipad/android and windows with 3 presets.
- Visca over USB (VS model), IP (4K model) and RS232 (both models).
- Our proprietary near end onscreen app control utilising 7 presets
- AnyAngle RF remote control.



## **UltraOptix**

Utilizing advanced imaging technology, Ultraoptix reduces 3D video noise. The result is a balanced image that renders the image with a clarity and sharpness that creates a more defined image.



## **AnyAngle Remote**

Tired of unresponsive remote controls? Utilising RF technology our new AnyAngle remotes do just that, they work from any angle, all the time, every time, even if there is an object in the way.



## **Dynamic Startup**

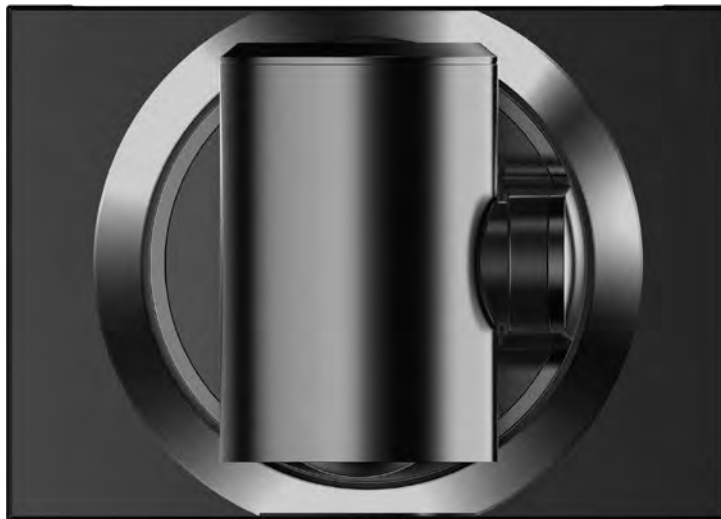
Dont want the camera to settle in the default position on startup? No problem. Dynamic startup allows you to preset the startup position, so every time the camera starts up it will automatically settle in that position, no need to press any buttons. The perfect solution for lectures





# BLADE VS

U2-10FHD3



## A leap ahead

The new Blade VS delivers an amazing suite of features and maintains the beautiful optics you have come to expect from Angekis. Technical improvements and a class leading build quality compliment the Blades brilliantly sharp resolution and stunning color reproduction, all at a groundbreaking price.

### PRODUCT HIGHLIGHTS

- 10x optical zoom, 10x digital zoom option
- Full HD resolution at 30fps via USB 2.0
- Video format YUY2 and Mjpg
- Day/night version switch
- 62.5° FOV
- 350° pan rotation
- Visca over USB2.0, RS232 . 128 presets
- RF remote controller, 10 presets
- ZoomRoom remote RF Controller supported,
- On screen NECC via custom Angekis app
- Video mute control
- Kensington lock hole
- 3D noise reduction



Flexi Control



UltraOptix



Dynamic Startup



AnyAngle

# BLADE 4K

U3-UFHD36-IP

# Blade 4K

Enterprise Grade 4K USB 3.0 IP PTZ Camera



## Breaking new ground in optics and performance.

The new Blade series delivers class leading optics and crystal clear life like video that makes your video conference feel like you are sitting together in the same room. We've delivered significant technical improvements including USB visca and uvc control, as well as zoom room controller support.

Onscreen NECC rounds off the suite of control options. No more unreliable remotes!

Advanced RF technology allows the remote to be used from any angle. Technical improvements to the cameras optics produce brilliantly sharp images, in a small, smart and solid form factor at a price that will impress.

Did we mention the 3 year warranty?

## PRODUCT HIGHLIGHTS

- 86.5 Degree wide angle FOV
- 5 x 4K + 15x HD zoom over IP and USB3.0
- Up to 4K resolution at 30fps and Full HD at 60fps
- Video format: YUY2, MJPG,H.265(IP)
- HTML5 supported multi-browser
- Video outputs: RJ45,USB3.0
- Visca over RS232 & IP. 128 presets
- Zoom Room remote RF Controller supported
- Angeki's near end on screen app control,
- RF remote control with 10 presets.
- RS232 & IP joystick or 128 presets from web/windows
- OSD settings menu via remote
- Video mute control
- Kensington lock hole
- 3D noise reduction
- Day/night vision switch



Flexi Control



UltraOptix



Dynamic Startup



AnyAngle

# Angekis®



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FACEBOOK

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