

PanaCast® 2 Camera

Industry-First Panoramic-4k USB Plug-and-Play Video Camera



Natural-Looking 180° wide by 54° tall Panoramic Field of View

The PanaCast® 2 camera is a plug-and-play USB device that connects directly to your PC or Mac. It delivers a panoramic-4k quality video stream, 180° wide by 54° tall, along with high fidelity stereo audio.

PanaCast 2 transforms how we see and connect electronically. It lets you add the natural human field of view to your meetings and gatherings with a simple Plug-and-Play device.

Use it to improve your collaboration experience with popular apps and services such as Skype® for Business, Skype®, Cisco WebEx®, Citrix® GoToMeeting®, Google® Hangouts™, Facebook®, and more. Simply plug in and go, without the need to download or install any drivers or software to get started.

Conventional cameras typically deliver a narrow field of view. The PanaCast 2 gives you an ultra wide field of view so you can see more of what you need to see, as shown in Figure 1.

Benefits

- Immersive 180° x 54° view
- Plug-and-Play
- USB 3.0 and USB 2.0
- Up to 4.15 MP video
- Better video at all resolutions
- HD quality stereo audio built-in
- Works with Microsoft® Lync®, Skype®, Cisco WebEx®, Citrix® GoToMeeting®, Google® Hangouts™, Facebook®,...



Figure 1: PanaCast 2 Video Stream (180° X 54°)

The camera produces natural-looking panoramic video by combining video streams from three imagers simultaneously and processing these in the PanaCast video processor on-board to dynamically stitch, optimize and render the video to a mathematically-correct cylindrical projection with ultra-low latency of <~15ms from photons to USB data.

With the optional, lightweight app, as the host, you can directly control pan, tilt and zoom capabilities in the panoramic video stream and focus participants' attention on what you want to highlight, all in real-time and whenever you like.

With the PanaCast Experience Service, you can access enhanced capabilities, including 4.15 Megapixel video as part of the panoramic, interactive experience, on your own device, anytime/anywhere. Every participant in a PanaCast Experience session is in control of his/her view. One viewer might be zoomed in while another might be watching the full panoramic image of the whole scene, from any one of five cameras, without disturbing the experience of other participants.

PanaCast Experience, built for Skype® for Business / Microsoft® Lync®¹ delivers customers a unique, personal and interactive experience in a very cost effective and simple-to-use way.

¹ Developed independently via SIP Extensions for Microsoft® Lync®

Camera Specifications

Parameter	Specifications and Capabilities
Video Resolution (Megapixels)	<ul style="list-style-type: none"> Panoramic-4k: 3840 x 1080; 4.15 MP YUV 4:2:2, MJPEG HD: 1920 x 1080; 2.1 MP YUV 4:2:2, MJPEG
Max. Field of View (Degrees)	<ul style="list-style-type: none"> ~180° (H) x 54° (V) 188° DFOV Adjustable FOV through UVC PTZ command set
Frame Rate (FPS)	<ul style="list-style-type: none"> Variable, 15, 30
Plug-and-Play Operation	<ul style="list-style-type: none"> Plug-and-Play for Windows and Mac applications Supports USB Video Class (UVC) Driver Supports USB Audio Class (UAC) Driver
Output	<ul style="list-style-type: none"> USB 3.0 USB 2.0 Video and Audio Streams
Latency	<ul style="list-style-type: none"> <= 15 ms
Power	<ul style="list-style-type: none"> 5V Power jack
Focus (Each Imager)	<ul style="list-style-type: none"> 0.3m to Infinity -Fixed Focus
Inter-imager Seam Stitching Optimization Distance (m)	<ul style="list-style-type: none"> 1m – 7m (3' – 21')
Audio Integration	<ul style="list-style-type: none"> Stereo Audio Microphones Beam Forming Range: 2m Reverb Cancellation built-In

Parameter	Specifications and Capabilities
	<ul style="list-style-type: none"> AGC built-in
Min. Illumination	<ul style="list-style-type: none"> 10 Lux
Compression	<ul style="list-style-type: none"> Motion JPEG built-in
Auto 50/60 Hz Detect	<ul style="list-style-type: none"> Built-In
Color Controls	<ul style="list-style-type: none"> Sharpness Brightness Gamma Saturation Control White Balance (Manual)
Status Indicator	<ul style="list-style-type: none"> LEDs built-In
Pan, Tilt, Zoom Options	<ul style="list-style-type: none"> Lightweight PTZ App (optional)
Product Certifications	<ul style="list-style-type: none"> FCC Part 15 Class A/B CE Mark ROHS, REACH Compliant USB Certified
Dimensions	<ul style="list-style-type: none"> Weight: 250g Width: 60 mm Height: 25 mm Length: 74 mm
Environmental Conditions	<ul style="list-style-type: none"> Operating Temperature: 0° C - 40° C Operating Humidity: 15%-85% (Non-Condensing)

About Altia Systems



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Altia Systems® (getpanacast.com) is a venture-backed company based in Cupertino, CA, and is the creator of the PanaCast® Experience solution. The award-winning PanaCast® offers a unique experience that enables anyone on desktop or mobile to communicate in interactive, real-time Panoramic-HD 200° field-of-view video that replicates the human panoramic perspective.