SOLUTION OVERVIEW

PanaCast® Whiteboard
Whiteboard Enhancement for Windows

While collaboration tool trends typically come and go, whiteboards remain to be the simplest and most common way to share ideas and information in meeting rooms and classrooms. The growing use of video collaboration and the increase of digital education programs create a need for technology that can keep whiteboard sharing simple during the video collaboration sessions with high quality.

People who use whiteboards in conjunction with video conferencing services find it difficult to collaborate with remote participants when they want to share the whiteboard content. Illegible content, cut-off whiteboard images and undesired visual distortions are all major issues that limit whiteboard use via traditional video conferencing.

PanaCast Whiteboard Solution

PanaCast Whiteboard is a computer vision software that detects content on an existing whiteboard in a conference room or classroom, and displays the content as its own individual video stream in any video conferencing app. PanaCast Whiteboard automatically improves image quality and corrects distortion of the whiteboard image, and presents to third-party video conferencing applications as a virtual camera. This software also allows you to deliver the PanaCast panoramic camera view while sharing whiteboard content, letting remote participants view the entire room while simultaneously focusing on the shared whiteboard content. The solution enhances communication experience and improves participant engagement.

Figure 1: Video call with the conference room and whiteboard view

Benefits

- Works with all popular video conferencing services
- Automatically corrects distortion
- Captures detail on whiteboard
- Enhances whiteboard readability
- Enables whiteboard content snapshot
- Enhances business collaboration
- Improves participant engagement

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To implement PanaCast Whiteboard, you need (1) a PanaCast 2 camera system (2) the PanaCast Vision app (3) PanaCast Whiteboard software (4) a Whiteboard indicator (optional), along with your whiteboard and Windows device.

![PanaCast 2 Camera System](image1)
![Vision App](image2)
![PanaCast Whiteboard](image3)
![Whiteboard Indicator](image4)

**Figure 2: PanaCast Whiteboard solution components**

The PanaCast 2 camera system provides a unique advantage – a 180° panoramic field of view, which can capture everything in the room including all participants and all whiteboard content. The PanaCast Vision application takes video input from PanaCast 2 and can provide two different outputs: (1) a virtual whiteboard video stream as a virtual camera or (2) a content share window of the enhanced whiteboard image. The application exposes whiteboard related control features to enhance the whiteboard viewing experience. The proprietary algorithm automatically corrects whiteboard distortion and alleviates glare, shadows or reflection.

### How to Use PanaCast Whiteboard with Video Applications

PanaCast Whiteboard can be used in brainstorming meetings, planning sessions, online lessons, and any other situation where people aim to collaborate through video conferencing services. With Whiteboard, hosts can instantly share content with remote participants, as these participants can easily read and follow the content on whiteboard. The host can also save an image of the whiteboard content to reference back to and share with others. While content sharing with remote participants, the host can pan-tilt-zoom the view of the camera by using PanaCast Vision. PanaCast Whiteboard makes it easy to connect and share with remote participants, and lets participants focus on the collaboration rather than the technology. For more information, please visit [go.panacast.com/whiteboard](http://go.panacast.com/whiteboard).

### Features and Specifications

**Features**

- Detection range from 3’ to 12’
- Whiteboard distortion correction
- Whiteboard image contrast enhancement
- Maximum video resolution: 1920 x 1080
- Works with all Windows video conferencing applications

**PC System Requirements**

- *Windows 7 64bit and up*
- Intel Quad-Core i7 Processors

**Software Specifications**

- PanaCast Vision App, 6.0 and above, enhanced with Whiteboard feature: provides whiteboard enhancement output as a virtual video camera

### About Altia Systems

Altia Systems, a Cupertino-based company, is the creator of PanaCast®, the world’s first Panoramic-4K plug-and-play camera system that delivers a 180° wide field of view, which replicates the natural human visual perspective. Funded by Intel Capital and other leading investors, Altia Systems’ PanaCast 2, 2s, 3D VR and Live systems deliver real-time 180° Panoramic-4K, Panoramic-5K and 4K 3D video streams from integrated, synchronized and optimized multi-camera arrays.

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