



Secure Reliable Predictable



What is cnVision?

A wireless connectivity platform designed for the demands of mission critical video surveillance backhaul.

- Predictable performance
 - Wireless transmission algorithm optimized for video.
 - High resiliency and supporting mission critical deployments.
 - Highly scalable architecture.
- Security
 - Proprietary over the air protocol.
 - User access security, device authentication.
- Reliability, ease of use
 - Easy to plan, install and configure with companion tools.
 - VMS integration, ONVIF client support for improved troubleshooting.
 - Ruggedization, 24x7 support, 3 year warranty.
 - Professional grade at an affordable price







cnVision value proposition

Video Surveillance where needed – quickly, efficiently, reliably

- **✓** Labor costs
- ✓ Time to install
- ✓ Permits, permissions, right of way are all challenges to offering quick connectivity
- ✓ Sometimes just impossible due to obstructions
- ✓ With the right wireless products, un-licensed spectrum becomes a breeze to use



The cnVision Difference

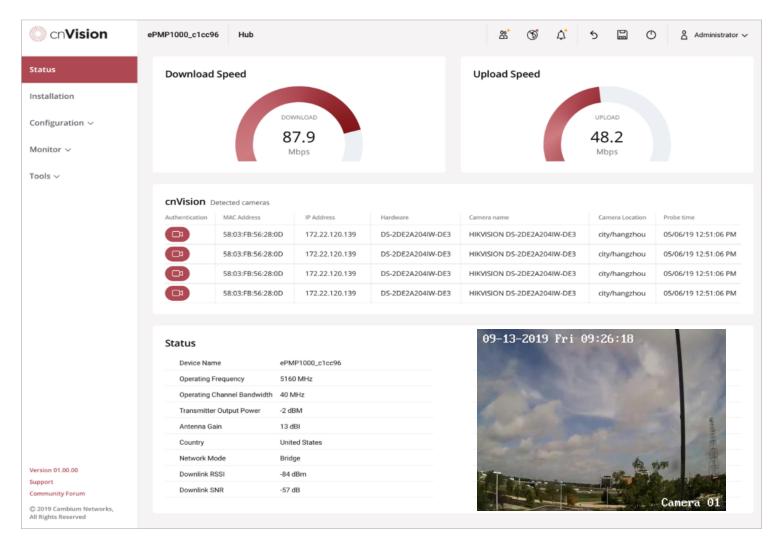
- Security: Data security via AES128/256 bit encryption; Protocol security via proprietary beacon, signaling; Session security via multiple user level definitions; Access security via SSH, HTTPs, Radius
- Deployment assistant: Discovery, configuration & wireless planning tool to make management & deployment easier

- Transmission: Over the air proprietary protocol with QOS support and adaptive modulation minimizing packet loss. High resiliency to interference and dedicated spectrum analyzer
- Ruggedization: IP55 & IP67 models with -30C to +55C temperature range outdoor models. Built in heater functionality for extreme cold deployments.

- CCTV integration: Built in ONVIF client allowing camera detection. Additional stream detection ability to view and assess image within the client units
- VMS integration: Integration with leading VMS vendors to provide additional statistics for the backhaul.



Simple intuitive GUI, ONVIF and VMS Integration



cnVision simple GUI interface. View connected cameras and stream video for confirmation



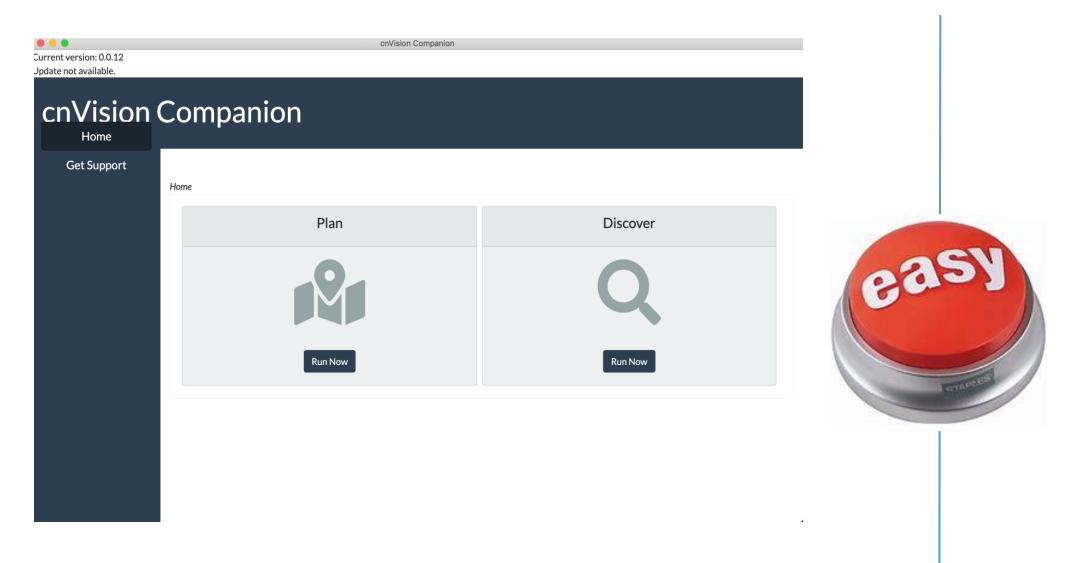
Built in ONVIF client allowing camera detection with ONVIF Conformant cameras



Single pane-of-glass monitor with VMS systems. Event based triggers from radio displayed on VMS. Basic parameters such as device up/down



Easy to Design, Easy to Manage, Easy to Troubleshoot



cnVision Plan Tool - makes planning for wireless connectivity easy cnVision Discover Tool - makes network discovery and setup simple

cnVision GUI gives instant feedback on network performance related directly to CCTV performance



Product Selection Matrix and Key Specs

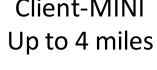
	Hubs		Hub or Client		Client
Product	Hub FLEXr	Hub 360	Client MICRO	Client MINI	Client MAXr
	paig.				
Typical Range	Long	Short/Medium	Short	Medium	Long
			(up to 1 mile)	(up to 4 miles)	(up to 8 miles)
Antenna Gain	Antenna sold	9 dBi	13 dBi	16 dBi	19 dBi
/ Coverage	separately (60° horn or 90° sector typ.)	360 degrees	30 degrees	16 degrees	14 degrees
Sales	CV-HC2RPUSA-US	CV-H00RPUSA-US	CV-D13SPUSA-US	CV-D16SPUSA-US	CV-C19RPUSA-US
Model(s)	(United States)	(United States)	(United States)	(United States)	(United States)
iviouei(s)	CV-HC2RPUSA-IC	CV-H00RPUSA-IC	CV-D13SPUSA-IC	CV-D16SPUSA-IC	CV-C19RPUSA-IC
	(Canada)	(Canada)	(Canada)	(Canada)	(Canada)

- Radios operate from 4.910 to 5.970 GHz with channels widths of 20/40/80 MHz delivering up to 600 Mbps
- Client MAXr is the best solution for government projects and scenarios with highest degree of ruggedization and security
- All models include: Expanding list of VMS integration with ONVIF support; 3-year warranty, planning software tool, Built-in GUI configuration, pole-mount bracket (wall-mount optional); -30C to +60C (-22F to +140F) operation.











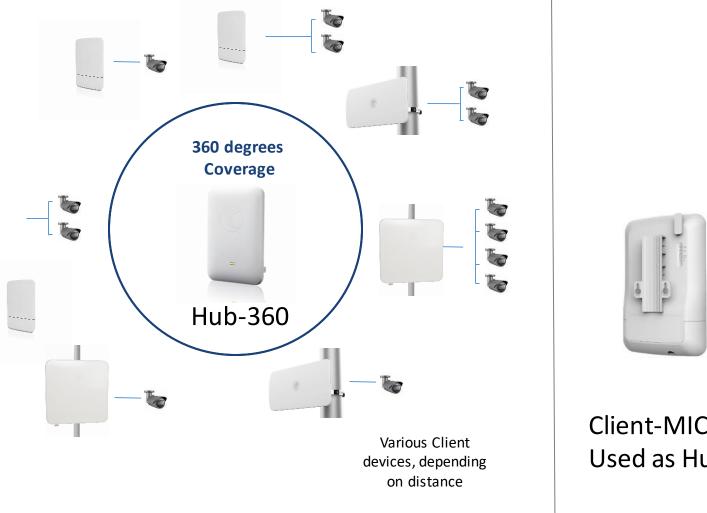
Up to 8 miles

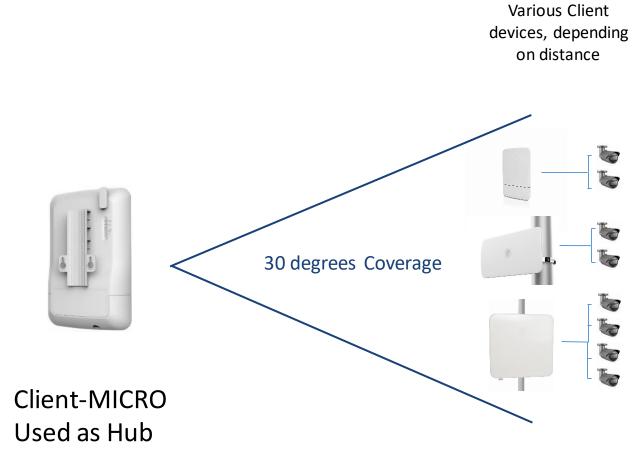
Hub & Spoke (Point to Multipoint) GPS Synced for multiple co-located Hubs

Various Client devices, depending on distance

Hub-FLEXr with Twistport adapter and 60 degree horn antenna

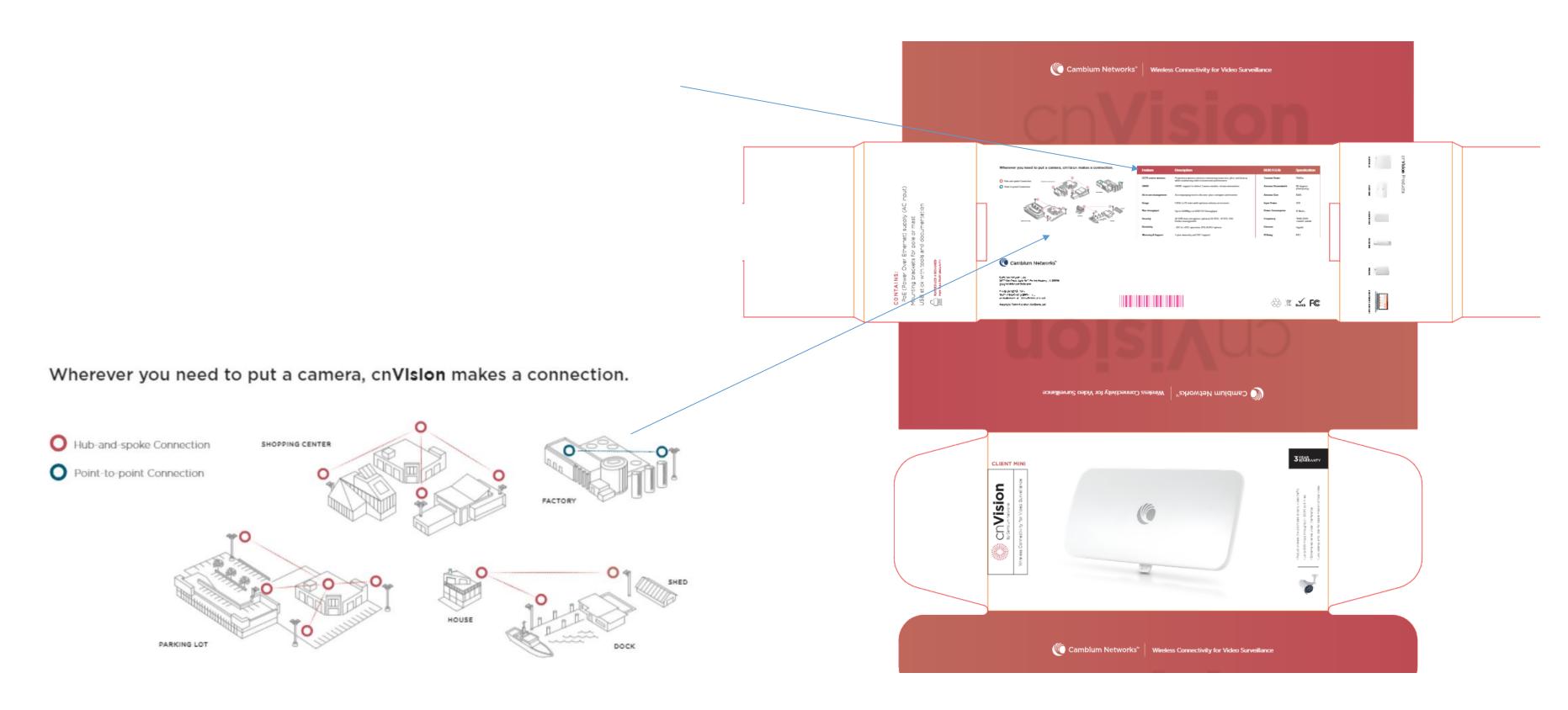
Hub & Spoke (Point to Multipoint)







Packaging





Training and Support







Cambium Community

Learning doesn't just happen in a classroom or online, it Validate your knowledge and become a Cambium happens when we share ideas and communicate with others sharing our experiences. In the community you can share your expertise in Forums, find answers in the online testing experience for you to validate your Knowledge Base, and submit Ideas on how we can improve our products and solutions to continue to connect to the unconnected.

Cambium Certification Exams

Certified Engineer. We offer certification exams across our portfolio providing an opportunity through an knowledge and become Cambium certified. Certifications are valid for 2 years.

Certified Instructors

Cambium Certified Instructors around the world are some of the leading experts in our industry and across the Cambium Network portfolio. These individuals bring expertise beyond the product and maximize the training experience by engaging participants in real world application discussions and best practices.

Cambium University

Industry first end to end CCTV deployment centric wireless certification class.

Cambium Support

Pre-Sales Support:

Sales, Design & Engineering support



Submit a Request

To submit a request for technical support or RMA assistance online, log into the portal with your Cambium Single Sign-On (SSO) and password, then click on "Submit a request". Select the appropriate request form, complete it, and a ticket will be opened

Contact Support

Online requests for Cambium Networks technical support must be made via our Support Center portal. See below for details.

RMA Requests

Online RMA requests must be made via our Support Center portal. See below for details.

Post Sales Support:

24x7 support (Phone, email, chat) 3 year standard warranty Online forum support.



Best in Class Channel Program

Cambium Networks award winning channel program

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Partner program members have access to collateral, resources, marketing material,...



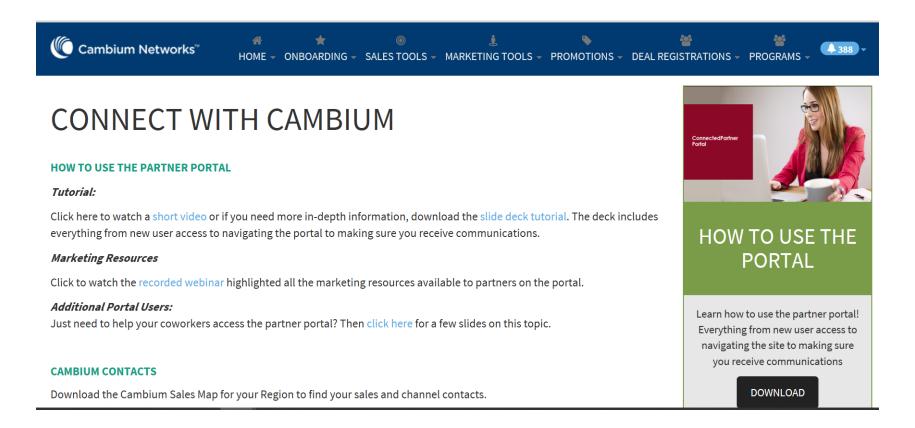
Minimum Advertised Price (MAP) and strict policies ensure maximum value for partners



cnVision SI program is a special program within the ConnectedPartner Program, for the CCTV specific market focus









cnVision System Integrator (SI) Program

- cnVision SI is a specialty program (exclusive) within the Cambium ConnectedPartner program
- Requires a separate application and approval (see Partner Portal for separate application form). Submit application at cnVision@cambiumnetworks.com
- Requirements for joining cnVision SI Program
 - Proven experience in designing, selling, installing and maintaining CCTV systems.
 - Access, experience and the ability to sell cameras and video management systems.quote, sell, configure, install and maintain CCTV systems
- Benefits of joining the cnVision SI Program
 - cnVision SI's buy from cnVision distributors
 - Access to exclusive cnVision SI webinars with direct Q&A to engineering team and peer-to-peer sharing of success stories.
 - Excellent Margins



Selling cnVision – Probing Questions

Prospect is new to wireless?

- Did you know wireless solutions are available to deliver hundreds of megabits per second reliably carrying high resolution feeds from multiple cameras?
- What are the biggest challenges you face extending the network to a new camera location? How much could you save by eliminating fiber or copper runs from your next project?
- Do you have a need to place cameras 50m to 5 miles away from your wired network connection?

Prospect using another wireless solution?

- How do you currently determine if a video signal problem is the camera or the network? Can you remotely isolate the issue from either end of the network?
- How do you currently isolate camera issues from network issues?
- What tool are you using to determine how many cameras and at what frame-rate the wireless network can carry?
- Can you currently view the wireless network performance within your VMS?
- What is the warranty and support you are getting from your current solution?

See the cnVision Battlecard on the Portal



Initial Hook:

Built for Purpose Wireless Video Surveillance –

Long range up to 5 miles

Predictable performance

High capacity up to 600 Mbps

VMS integration – troubleshoot the hub/client right from same VMS you use for the camera

ONVIF client integration and stream replay

Discover and see camera information right in
the client UI. Replay camera feed right on the
UI to assist fault isolation.

Rapid deployment without trenching data cables

Key Selling Points / Differentiation:

- Reliable Transmission with a wireless protocol tailored for video with QoS support and techniques minimizing frame loss. Highly resilient to interference.
- Auto detect camera model, type and configuration with Built-in ONVIF Client and Stream Detection ability to view and assess image within the client.
- VMS Integration Rapid Fault Isolation and integrated monitoring
- Highly secure with built-in AES encryption and secure management (HTTPS, RADIUS, SSH)
- Free of charge deployment companion for planning, deploying and managing
- 3-Year warranty on all hardware
- 24/7 technical support

See the cnVision Battlecard on the Portal





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