PureStream™

AV Over IP Solutions Guide
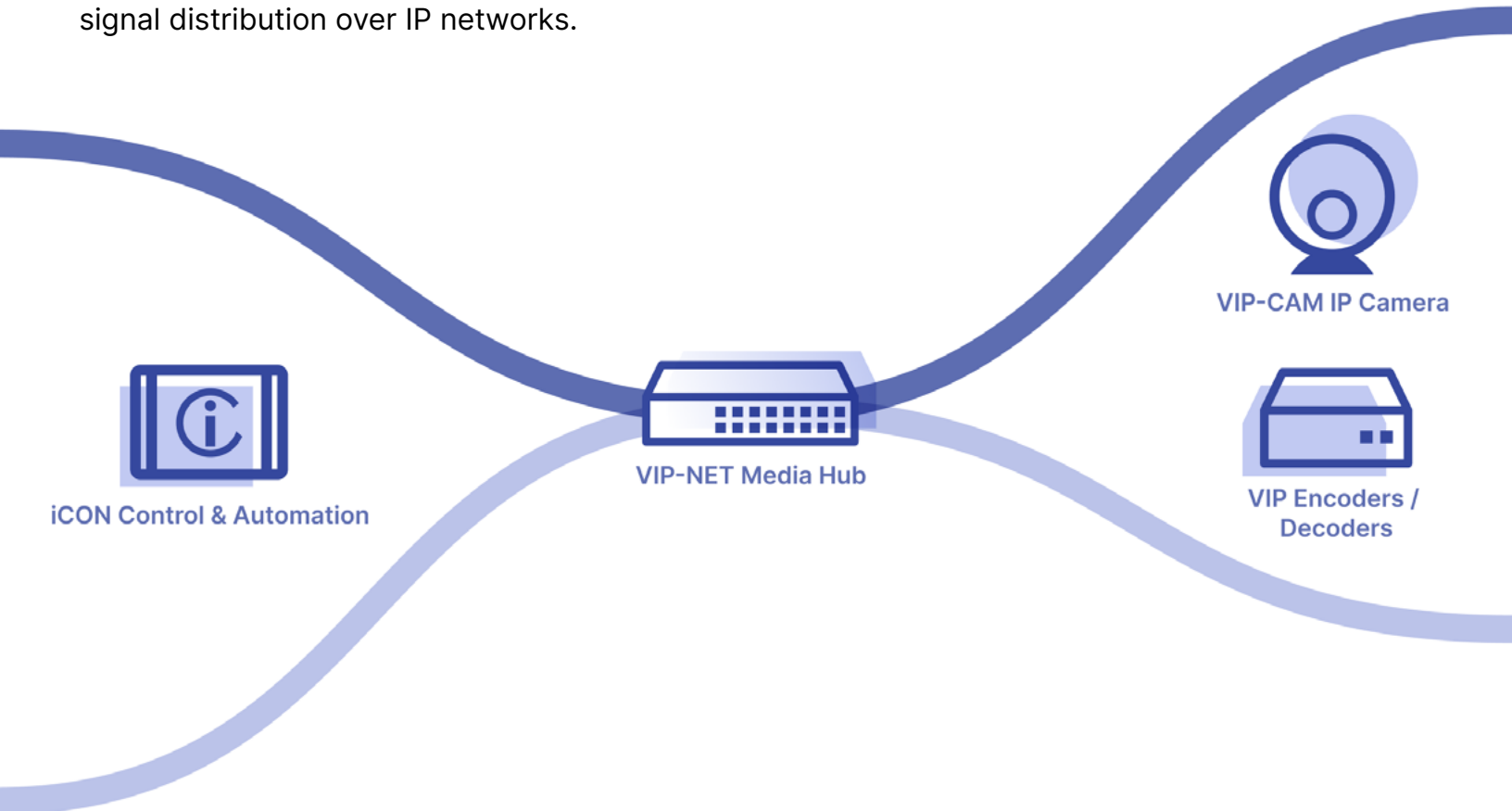
PureLink

Overview

Unlock the potential of advanced AV over IP with PureStream™—a complete solution that combines high-performance hardware and intelligent software to deliver effortless media and signal distribution over IP networks.

iCON Control & Automation

VIP-NET Media Hub

VIP-CAM IP Camera

VIP Encoders / Decoders

Powerful Hardware Integration
At the core of the PureStream ecosystem are PureLink's trusted VIP series encoders and decoders—including the VIP-T450, VIP-T400 and VIP-T300—along with purpose-built PoE CAT and Fiber Media Hubs. Together, these components create a scalable and efficient AV distribution infrastructure.

Smarter System Control
The iCON™ Control System brings everything together with simplified routing and management of video, audio, IR, and RS-232 signals. Its intuitive design makes complex configurations easy to operate and maintain, helping users take full control of their AV environment.

Design with confidence—PureStream adapts to your application, no matter the size or complexity.

Common Applications

- Retail
- Conferencing
- Broadcast
- Digital Signage

- Security & Surveillance
- Entertainment Venues
- Restaurants & Hospitality
- House of Worship
- E-sports

4K60 HDMI & USB/KM – AV over IP Distribution System w/ Dante

VIP-T450-E / D

Key Features

- Dante 2 ch I/O Embed and De-Embed

- 4K60 4:4:4 HDR

- Ultra-low latency (<17mS)

- Data rate 300 Mbps typical; 50-850 Mbps range, variable

- Fiber or CAT for Decoder, CAT for Encoder

- Fiber or CAT transport – 1G Port

- Extend signals up to 120 meters over CAT6, 300 meters using a network switch, and up to 2km with SFP fiber single mode

- HDCP 2.2 compliant

4K60 HDMI & USB/KM CAT and Fiber – AV over IP Distribution System

VIP-T400-E / D

⊕ View product details

Key Features

- 4K60 4:4:4 HDR

- Ultra-low latency (<17mS)

- Data rate 300 Mbps typical; 50-850 Mbps range, variable

- Fiber or CAT transport – 1G Port

- Extend signals up to 120 meters over CAT6, 300 meters using a network switch, and up to 2km with SFP fiber single mode

- HDCP 2.2 compliant

4K60 Wallplate Encoder with USB 2.0 and Audio Insert / Extract

VIP–T400-E-WP

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Key Features

- Part of the VIP-T400 series
- PoE 802.3af powered
- HDMI 2.0 4K60
- HDR10 / 10+

- USB 2.0
- <17mS latency
- Audio Insert / Extract

4K HDMI & USB / KM over IP Distribution System

VIP-T300-E / D

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Key Features

- Ultra HD / 4K30 (4:4:4), 4K60 (4:2:0)
- Ultra-low latency (<17mS)
- HDCP 2.2 compliant
- PoE 802.3af compliant

- Video wall processing (up to 8×8 configuration) and output scaler
- Fiber SFP slot for optional SFP modules
- USB 2.0 Keyboard / Mouse Extension

PureStream

HDMI & USB / KM over IP Distribution System

VIP–200–II E / D

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Key Features

- Full HD / 1080p@60

- HDCP 1.3 compliant

- Video wall processing (up to 8×8 configuration)

- Built-in scaler (Rx) – pass through or lock output resolutions

- RS-232 extension / steerable distribution

- USB 2.0 Keyboard / Mouse Extension

HDMI Streaming Encoder

VIP–STREAM–200

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Key Features

- Stream to multiple platforms simultaneously

- YouTube, FaceBook, Twitter, and more

- Compatible with displays with streaming input

- Easy one time setup

- Simple front panel controls and diagnostics

- Stream any HDMI source anywhere: local or worldwide

48 Port 1G L3 Switch with 4 10G SFP+

VIP-NET-4804PL3-1G

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Key Features

- Industry's First Purpose-Designed for AV over IP Applications Since 2015

- 48 1G Ports

- 4 10GbE SFP+ Interlinks with LACP

- IGMP Snooping V1, V2, V3, Querier, Filter

- QoS

- Jumbo Frame

- Rich API and Diagnostics

24 Port 1G L3 Switch with 4 10G SFP+

VIP-NET-2404PL3-1G

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Key Features

- Industry's First Purpose-Designed for AV over IP Applications Since 2015

- 24 1G Ports

- 4 10GbE SFP+ Interlinks with LACP

- IGMP Snooping V1, V2, V3, Querier, Filter

- QoS

- Jumbo Frame

- Rich API and Diagnostics

PureStream

4K Auto Tracking PTZ Camera/Soundbar/Microphone All In One with Smart Gallery

Huddle-CAM-500

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Key Features

- 4K Auto Framing / Tracking Camera with three modes including Smart Gallery

- Mechanical Pan / Tilt and 5x e-zoom movement and High Quality Optics

- 105 degree Field Of View

- Beamforming / tracking microphone array with 18ft (5.5m) range

- Add up to three extension microphone table pucks (optional) to increase range

- Works with Zoom, Teams, GoToMeeting, and more

Pro PTZ PoE Camera with 3G-SDI, HDMI, USB and H.264 / H.265 Streaming Outputs

VIP-CAM-200-NDI

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Key Features

- NDI HX2 output for easy and reliable distribution of signal

- 20x High Performance Optical Zoom w 16x Digital Zoom (320x total zoom)

- Advanced PTZ (Pan-Tilt-Zoom) function for higher precision and reliability

- HDMI, 3G-SDI, USB 3.0 outputs

- RTSP, RTMP, RTMPS, ONVIF, TCP output formats

- IR Remote Control included

3G–SDI IP Camera w / HDMI Output

VIP–CAM–100-NDI

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Key Features

- NDI HX output

- 5.8" CMOS sensor, 2.14-megapixel Full HD

- 20x High Performance Optical Zoom with 12x Digital Zoom (240x total zoom)

- 3G-SDI output

- Advanced PTZ (Pan-Tilt-Zoom) function for higher precision and reliability

- RTSP, RTMP, RTMPS, ONVIF, TCP output formats

- IR remote control included

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USB 2.0 IP Camera w / HDMI Output

VIP–CAM–30-20x
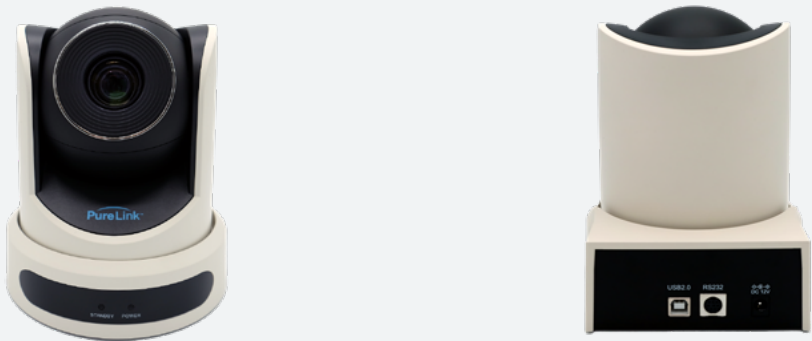
⊕ View product details

Key Features

- 20x High Performance Optical Zoom w 8x Digital Zoom (160x total zoom)

- Advanced PTZ (Pan-Tilt-Zoom) function for higher precision and reliability

- USB 2.0, HDMI, RTSP and RTMP outputs

- VISCA, PELCO-D, PELCO-P control via RS-232 / 485, http

- RTSP, RTMP, RTMPS, ONVIF, TCP output formats

- IR remote control included

USB 2.0 PTZ 10x Camera

VIP-CAM-10-10x-USB2

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Key Features

- Full-featured USB 2.0 interface

- 1080p Full HD

- CMOS image sensor for superior low light image quality

- H.264 Slice / H.264 SVC encoding

- Controlled using VISCA / PELCO via RS-232 or remote control

- Use with Zoom, Teams, GoToMeeting, and more

- 10 programmable presets

- IR remote control included

PELCO / VISCA Camera Controller

VIP–CAM–CTRL1

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Key Features

- Compatible with any PTZ cameras that uses PELCO or VISCA control

- 4D joystick for pan / tilt / zoom / focus control

- High brightness OLED display

- Auto backlight keys

- Shortcut keys customization

- Up to 255 cameras using PELCO; 7 cameras using VISCA

Dante 4 Input 4 Output Interface with DSP

DIO-0404DSP

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Key Features

- Four (4) balanced / unbalanced analog audio inputs

- Four (4) balanced / unbalanced analog audio outputs

- Intuitive DSP Interface

- Compression, Automatic Gain Control

- Parametric EQ, Intelligent Feedback Control

- AutoMixing, Acoustic Echo Cancellation

Dante 8 Input 8 Output Interface with DSP

DIO-0808DSP

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Key Features

- Eight (8) balanced / unbalanced analog audio inputs

- Eight (8) balanced / unbalanced analog audio outputs

- Intuitive DSP Interface

- Compression, Automatic Gain Control

- Parametric EQ, Intelligent Feedback Control

- AutoMixing, Acoustic Echo Cancellation

Dante 16 Input 16 Output Interface with DSP

DIO-1616DSP

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Key Features

- Sixteen (16) balanced / unbalanced analog audio inputs

- Sixteen (16) balanced / unbalanced analog audio outputs

- Intuitive DSP Interface

- Compression, Automatic Gain Control

- Parametric EQ, Intelligent Feedback Control

- AutoMixing, Acoustic Echo Cancellation

Service and Support

PureLink offers industry-leading support services designed to handle the unique needs of each project. From system design to comprehensive technical support, our dedicated team of Service & Support professionals are trained to provide a consistently superior user experience.

Complimentary System Design
- Start a new design or upgrade an existing system
- Free system diagram and BOM

Dedicated Technical Support
- Team of technical experts
- Industry's fastest response times
- Gold & Platinum support packages

PureLink Professional Services
- Pre-configuration services for VIP endpoints
- Warranty repairs and replacements
- Product evaluation program

Training & Webinars
- Free online education (tutorials, quick guides, and more)
- Live webinars featuring VIP CTS certification