Product Overview

Carrier-Grade Video Delivery with a World-Class User Experience

Enter the World of WISI

WISI helps operators around the world deliver beautiful, uninterrupted video 24/7

Rely on 100 Years of Innovation

Founded in 1926, WISI has been consistently innovating technology for almost 100 years. We support all video codecs, physical interfaces, and streaming formats - enabling operators to seamlessly connect between yesterday, today, and tomorrow.

Rely on a Global Perspective

Video operators in more than 150 countries rely on WISI to provide subscribers with an exceptional TV experience. WISI offices are located around the globe to ensure efficient support and localized application knowledge.

Rely on a Proven Partner

At WISI, we are a reliable partner to 2500+ customers. We collaborate closely with our channel and technology partners to support the implementation of all video projects, from small network applications to full headend deployments.

Rely on Customer-Centric Values

WISI is privately owned. We are the kind of partner that provides smart, efficient solutions based on our customers' needs and challenges.
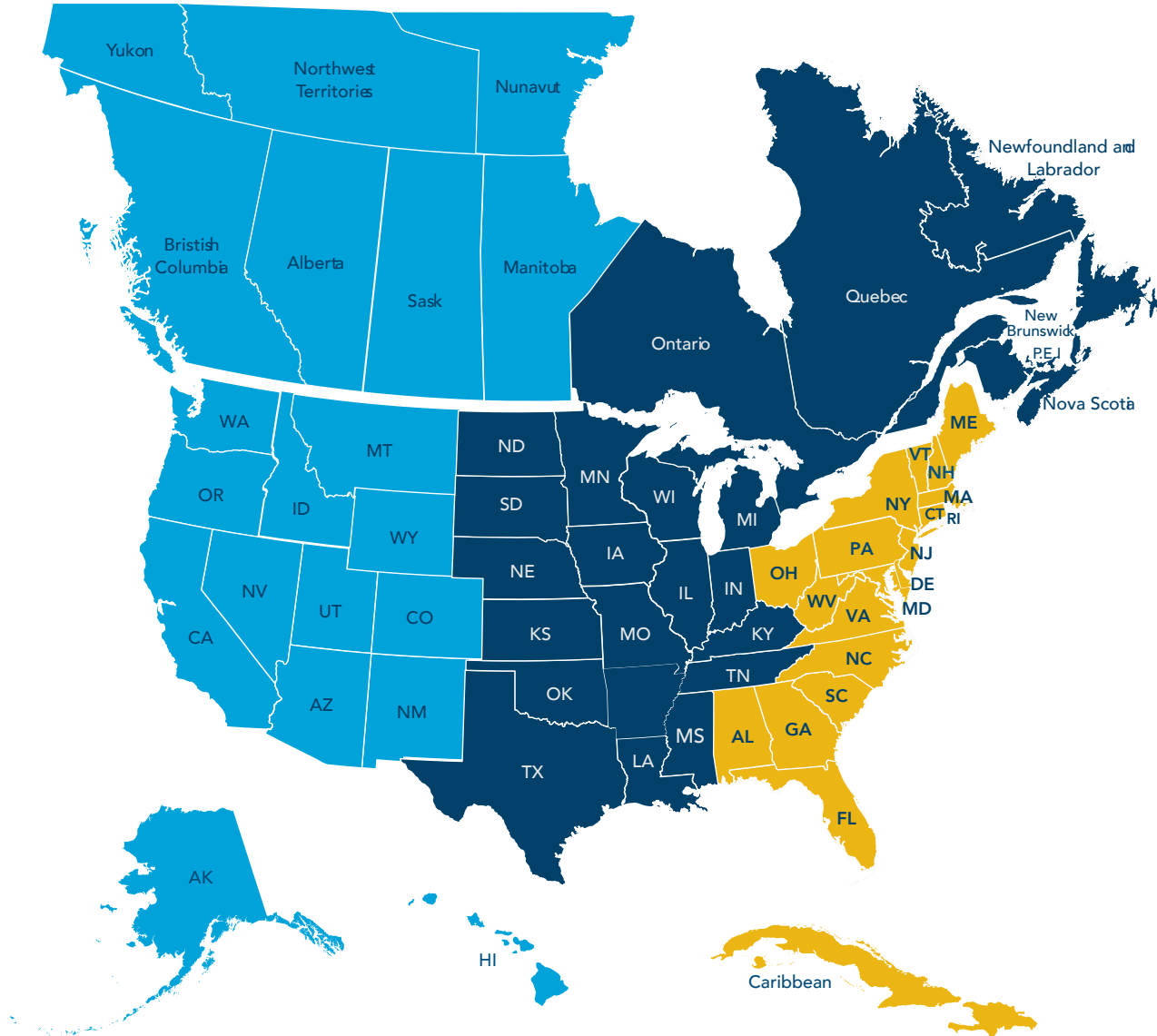
95	11	150+	2500+
Years in Operation	Offices Worldwide	Countries	Video Operators

WISI America

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Powering 2500+ of the World's Video Operators

For the WISI customer base, we play a prominent role in understanding customer needs and developing video processing solutions. Together with WISI as a trusted partner, operators can implement modular platforms to define next-generation multiscreen services, as well as to evolve, grow, and remain profitable in the face of today's rapid change.

What sets WISI customers apart?

- ✓ They maximize uptime
- ✓ They excel at operational efficiency
- ✓ They easily pivot with market demand

Customer Stories

Midwest Video Solutions
Efficiency With Tangram

Challenge
- Replace end-of-life servers used for encryption and distribution
- Serve multiple geographic areas with localized ad content
- Reduce strain on network bandwidth space

Solution
- WISI Tangram Video Platform and GT41 module with Verimatrix encryption
- Tangram enabled MVS to securely serve ~250 video streams to multiple geographic regions using only 2 modules in a 1RU chassis

Results at a Glance
- Significant power and rack space savings – a single 1RU Tangram unit replaced all 6x legacy servers
- Tangram allowed delivery across four VLAN's, enabling MVS to load balance traffic to each regional zone

MVS
Midwest Video Solutions

"

With the Tangram, the ease of use and reliability made this a smooth transition, and space and power savings were enormous. I didn't consider any other vendor and honestly, I don't know of any other vendor that could step up and do what Tangram can do."

~ Justin Beaman
Video Network Technician
Midwest Video Solutions

Customer Stories

Access Communications
Next-Gen IPTV

Challenge
- Replace existing QAM video service with a next-gen video service
- Transform entire headend to IPTV and provide versatile multiscreen video for subscribers

Solution
- Inca IP Video Platform transcodes entire channel lineup for both linear and adaptive bit-rate (ABR) services
- Implement a flexible platform able to pivot functionality based on market demand with additional licenses - no forklifting necessary

Results at a Glance
- Replaced racks of legacy headend equipment with one sophisticated platform
- Launched personalized IPTV and multiscreen service with rich local content for Saskatchewan communities

"WISI is more interested in being a partner than a sales company. WISI earned our business and partnership for our next-gen video deployment. The technical and sales teams at WISI are best in class; we truly feel like we receive white-glove service from them."

~ Jeffrey De Sarno
CTO, Access Communications

Customer Stories

Inspired Technologies
The Perfect Match

Challenge
- Deploy an OTT headend with a solution to pull and transcode off-airs
- Find an alternative to 8VSB modulators plus a server farm of software transcoders
- Simplify configuration and management

Solution
- All-in-one solution for 8VSB modulation, de-mux, and transcoding using a power-efficient 1RU chassis – Inca IP Video Platform with 2x 8VSB Receiver Modules

Results at a Glance
- Rapid configuration thanks to VidiOS™ – product was set-up within 45 minutes
- "Fire and Forget" – Product is running flawlessly in production environment and customer is happy with results

"
It was very straight-forward to configure. I sat down one afternoon and got it running within 45 minutes. Everything was very intuitive, and I didn't have to reference much documentation, which was great."

~ Nick Routa
Managing Partner
Inspired Technologies

inspired
TECHNOLOGIES
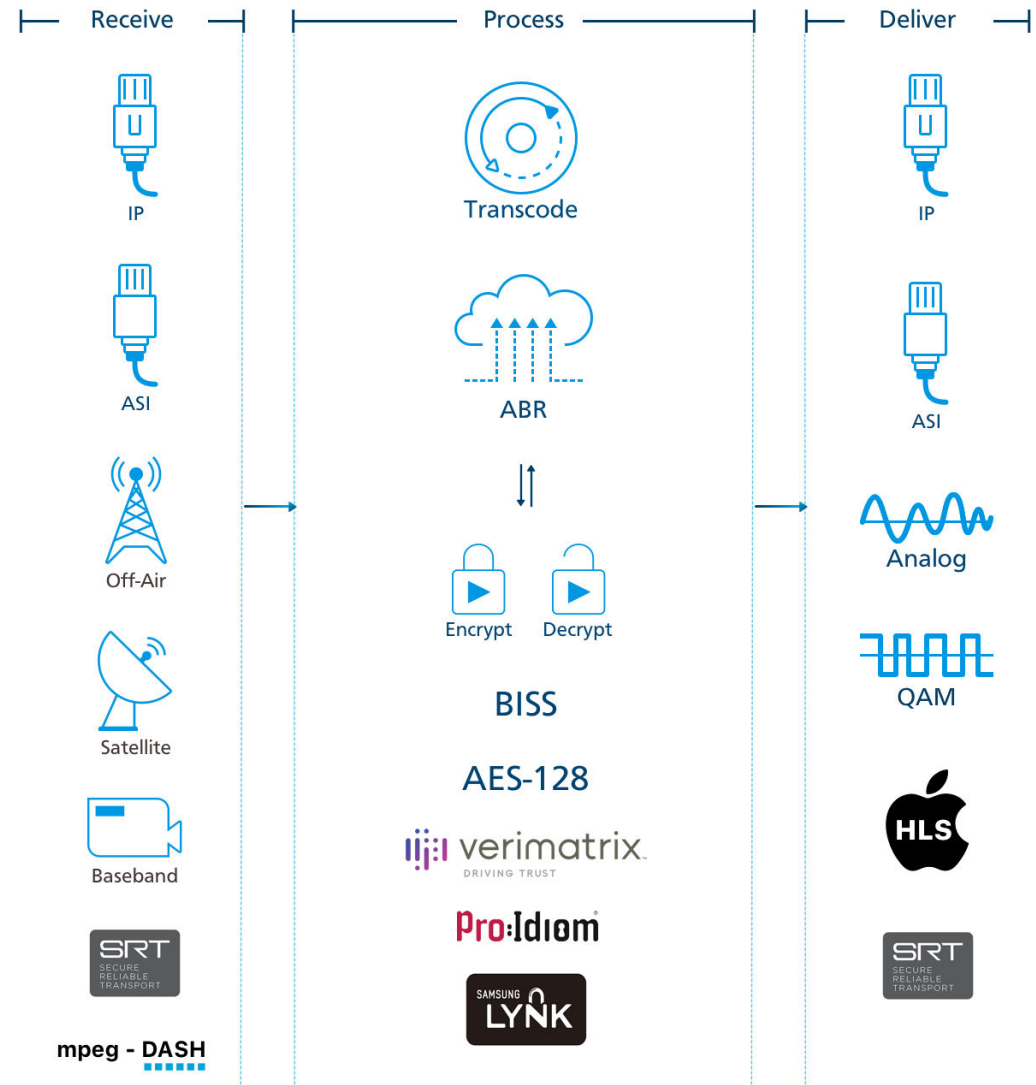
WISI Provides End-to-End Video Delivery

Video operators rely on WISI to distribute video content to any screen on any network.
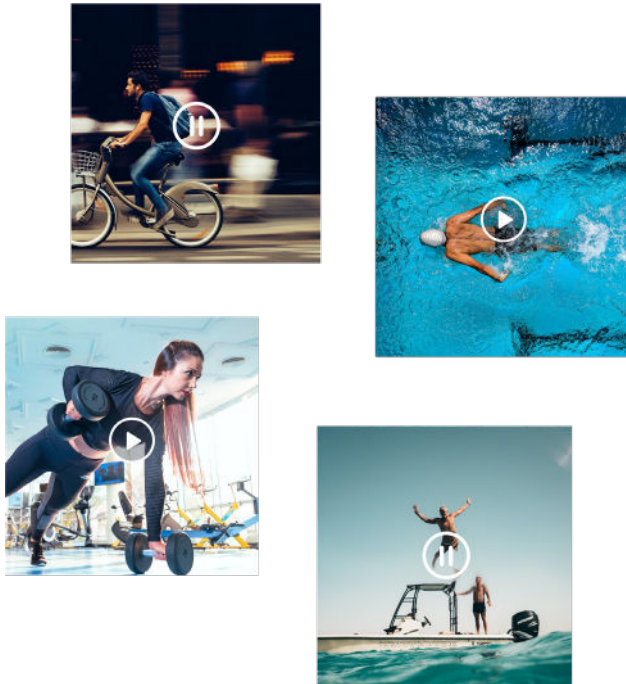
> "WISI's video delivery system is hands down the best out there. I've never seen any other company doing what they're doing with that. Until their competitors can do what WISI is doing with their intelligent video delivery system, there's just no comparison."
>
> ~ Pete Anderson
> Central Office Supervisor
> Farmers Telephone Cooperative

Receive

IP

ASI

Off-Air

Satellite

Baseband

SRT SECURE RELIABLE TRANSPORT

mpeg - DASH

Process

Transcode

ABR

Encrypt   Decrypt

BISS

AES-128

verimatrix DRIVING TRUST

Pro:Idiom

SAMSUNG LYNK

Deliver

IP

ASI

Analog

QAM

HLS

SRT SECURE RELIABLE TRANSPORT

Intelligent Video Platforms

INCA
IP VIDEO PLATFORM

TANGRAM
HIGH DENSITY VIDEO PLATFORM

CHAMELEON
SOFTWARE-BASED HEADEND PLATFORM

Linear and ABR
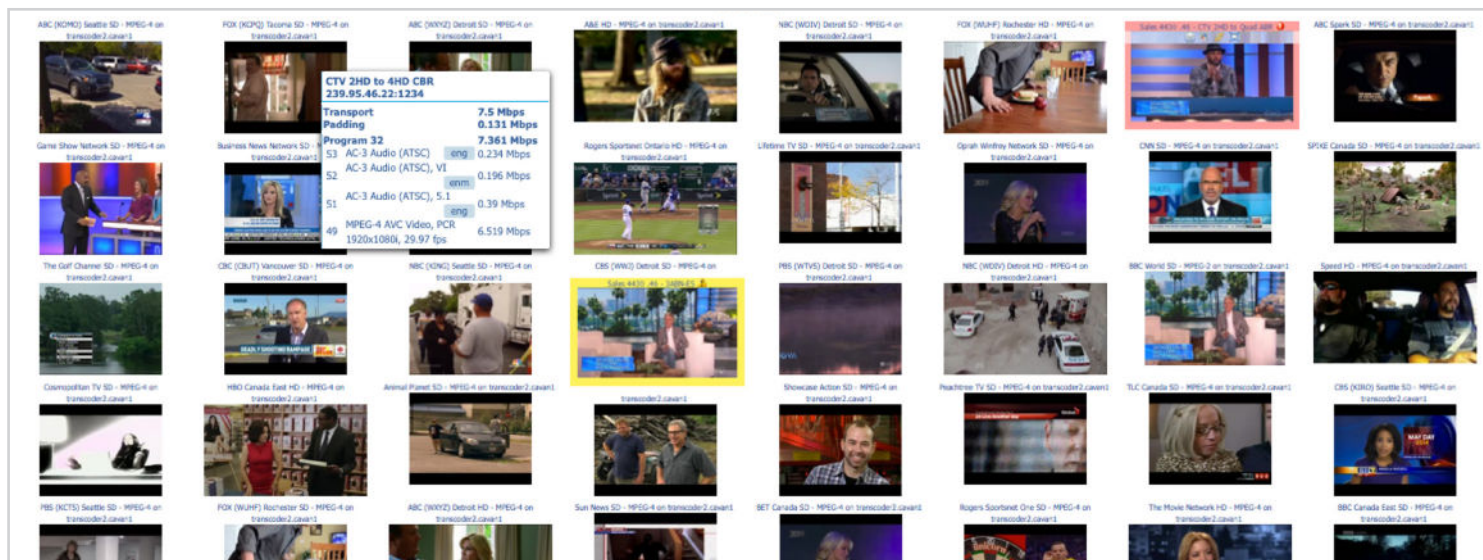Transcode Solution

Hospitality and
Edge Solution

Encoder and
Broadcast Solution

All Seeing Eye

Award-Winning IP Visual Video Monitoring Compatible
with the Inca, Tangram and Chameleon platforms and streams from 3rd party products

Inca IP Video Platform
Linear and ABR Transcode Solution

" Our engineers love the Inca gear. It's so easy to set up and manage. With gear from other vendors, it can take weeks to train the team. With Inca, I didn't have to worry about it at all. It's been running 24/7 with no problems."

~ Joey Willis
Network Engineer, Ritter Communications

Features

- Receive 8VSB, ASI, IP, SRT, and MPEG-DASH
- Linear transcoding between MPEG-2, MPEG-4, and HEVC
- ABR transcoding with market-leading cost per stream
- Output video as multicast IP, HLS playlists, or SRT
- Modular, flexible chassis uses less than 200 W per 1RU
- 10G SFP+ support, AC and DC power options
- Automatic service failover, chassis, and power redundancy

Key Applications

IP video streaming

- 8VSB to IP
- ASI to IP
- MPEG-DASH receive
- SRT send or receive
- HLS outputs

High density Transcode

- Transcode for linear IPTV
- Transcode to multi-bitrate profiles for ABR applications

Increase visibility with VidiOS™ - includes video thumbnails and stream downloads

Experience beautiful video delivery with a carrier-grade solution

Profit from using a modular platform – add additional audio or video transcodes at any time

Available Modules

Up to 4 modules can be used in a single Inca chassis. One module type can be installed exclusively or in combination with other modules to support different applications.

✔ **XC3 Transcode Module**
MPEG-4 AVC and MPEG-2
Linear - up to 12x HD or 30x SD inputs
Adaptive bitrate - up to 24 profiles

✔ **HXC Transcode Module**
HEVC, MPEG-4 AVC and MPEG-2
Linear - up to 6x HD
or 12x SD inputs

✔ **ASI Module**
Up to 6x ASI inputs

✔ **8VSB / QAM Receiver Module**
4x 8VSB ATSC or DVB-C
Annex B QAM

*Cut Trouble Calls by 84% with VidiOS™

Meet VidiOS™, Inca's advanced processing and monitoring engine that provides unique visibility into every step of the video processing chain.
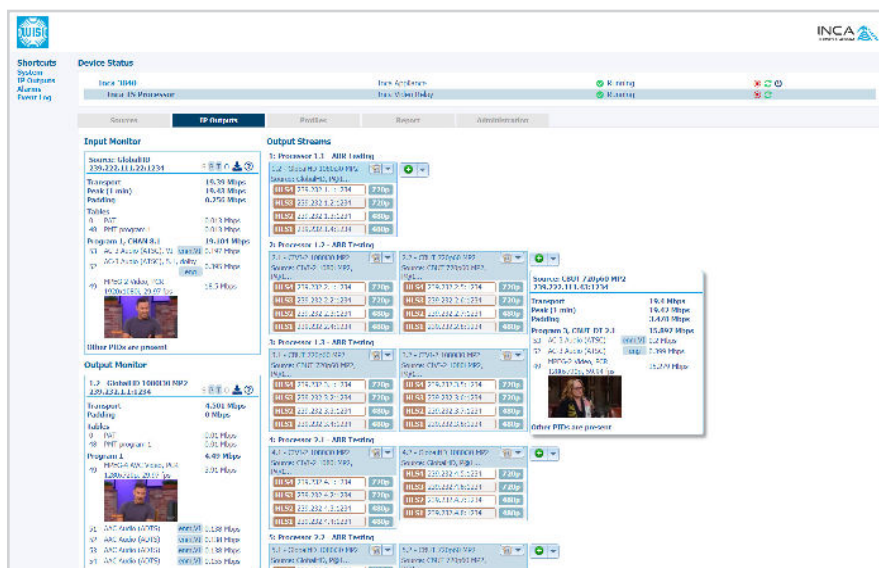
Advantages at a glance:

✔ Award-winning user interface designed for ease-of-use and operational efficiency

✔ Sophisticated web-based platform for management and troubleshooting

✔ Powerful grooming and monitoring tools with carrier-grade control and visibility

✔ Extensive statistical analysis and transport stream event logging

✔ View inbound and outbound video thumbnails and stream sample downloads

✔ Enables rapid configuration and deployment using any web browser

✔ Access remotely from any web browser and reduce costly truck rolls

* An 84% reduction of trouble calls attributed to VidiOS™ management tools was recently reported by a North American Tier 1 operator

Tangram Video Platform
Hospitality and Edge Solution

" The WISI solution was so efficient, and so affordable, there was
no need to look any further."

~ Jeff Robinson
Director of Engineering, West Carolina Tel

Features

- Powerful, modular platform with options for QAM, IP, 8VSB, SRT, ASI, and encryption/decryption

- Low power consumption, AC or DC power options

- Bandwidth expansion with four SFP slots

- Hot-swappable modules, fan trays, and power supplies

- High reliability with module and source redundancy

Key Applications

Feed hospitality networks

- IP to QAM

- Pro:Idiom encryption

- Replace CableCard with IP delivery

Gateway and edge applications

- Bulk decrypt BISS, Verimatrix

- Receive or send SRT

Save rack space, power, and cooling costs – consolidate multiple functions into one chassis

Experience reliable and secure video delivery – cost-effective encryption and transport from headend to hospitality sites

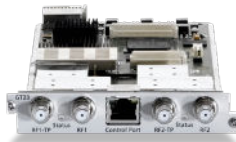Combine up to 6 modules based on deployment needs

Available Modules

Up to 6 modules can be used in a single Tangram chassis. One module type can be installed exclusively or in combination with other modules to support different applications.
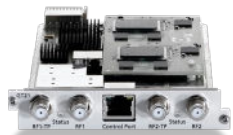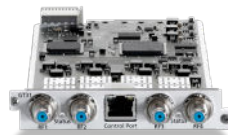
GT21 IP to Analog	**GT23** IP to QAM	**GT31** Satellite Receiver	**GT32** ASI to IP/IP to ASI	**GT33** 8VSB/QAM to IP	**GT41** Video processor
✔ Up to 6x analog channels on 2x RF outputs	✔ Up to 12x QAM channels on 2x RF outputs	✔ 4x DVB-S/S2/S2x and ISDB-T tuners on 4x RF inputs	✔ 4x ASI input or output, demux & passthrough	✔ 8x 8VSB/QAM tuners on 4x RF inputs	✔ Encrypt/decrypt, mux/ demux, SRT, RTP + FEC
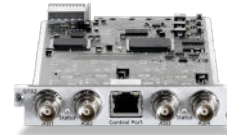
Chameleon Headend Platform
Encoder and Broadcast Solution

" We looked at a couple other vendors, but nobody else offered the versatility that we needed. The Chameleon is aptly named, because it can do just about anything. It's great because with the Chameleon we can output streams in whatever format each individual headend needs."

~ Matt Ingram
Broadcast Engineer, Shop LC

Features

- ✔ Receive 8VSB, QAM, SRT, ASI and/or IP
- ✔ Output as Analog, SDI, QAM, ASI and/or IP
- ✔ Encode HDMI, HD/SD-SDI, and A/V inputs to IP digital outputs
- ✔ SRT, RTP + FEC transmit and receive
- ✔ Full SNMP monitoring and remote control via web interface
- ✔ Low power consumption with redundant PSU options

Key Applications

- ✔ Ideal solution for smaller networks and low-density applications
- ✔ Great for local content acquisition: PEG channels, local sporting events
- ✔ Encode baseband content and add to channel line up
- ✔ Connect directly with broadcasters using GigE, RTP + FEC, ASI, and SRT

Versatile and flexible video processor - mix and match modules for different applications

Encode baseband content and stream in beautiful HD

Receive and transmit multiple formats simultaneously

# All Seeing Eye
Award-Winning IP Visual Video Monitoring

"

All Seeing Eye saves us a lot of time on troubleshooting and helps us identify issues quickly. It gives us the ability to proactively identify issues before the customer calls them in. Gone are the days of referring to spreadsheets when trying to find the source of an issue in our network."

~ Linwood Tyndall
Infrastructure Engineer, Greenlight

Features

- ✔ Visual monitoring of all headend streams
- ✔ Video thumbnail mosaic with dark mode option
- ✔ Efficient troubleshooting with visual highlighting
- ✔ Email notifications when alarms occur and clear
- ✔ Monitor locally and remotely using any web browser
- ✔ Detailed transport stream statistics - PIDs, payload, bitrates
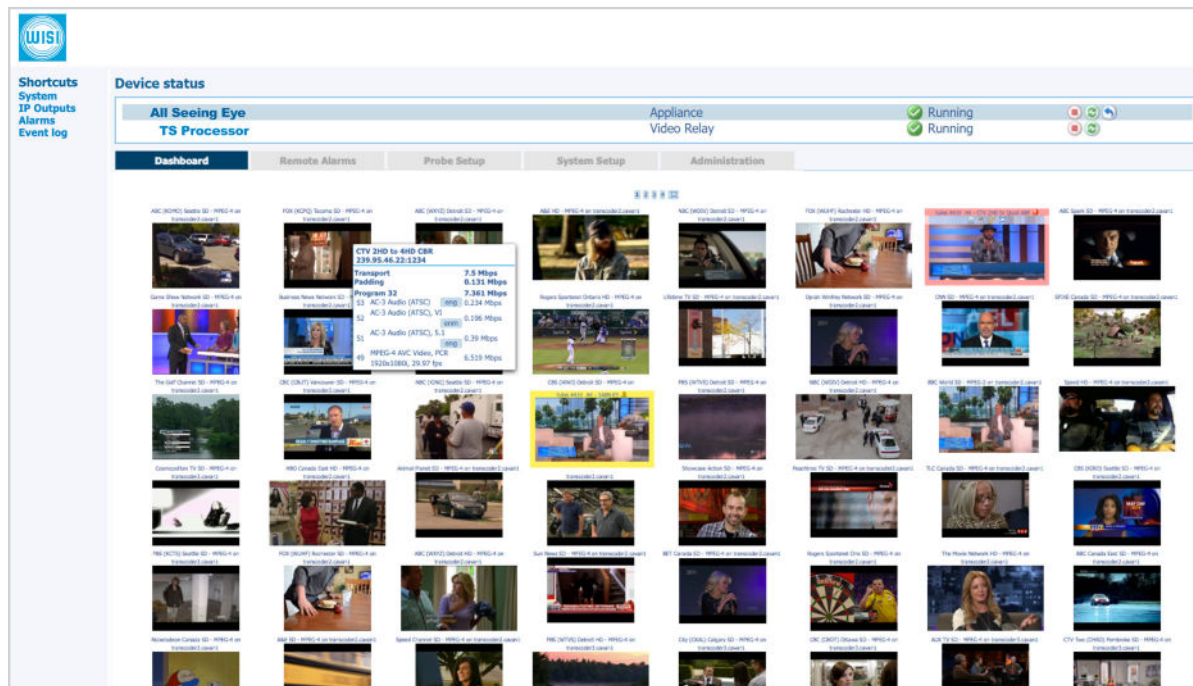
Confidence monitoring of all headend video streams, including streams from 3rd party vendors

Sophisticated visual mosaic powered by VidiOS™ web-based user interface

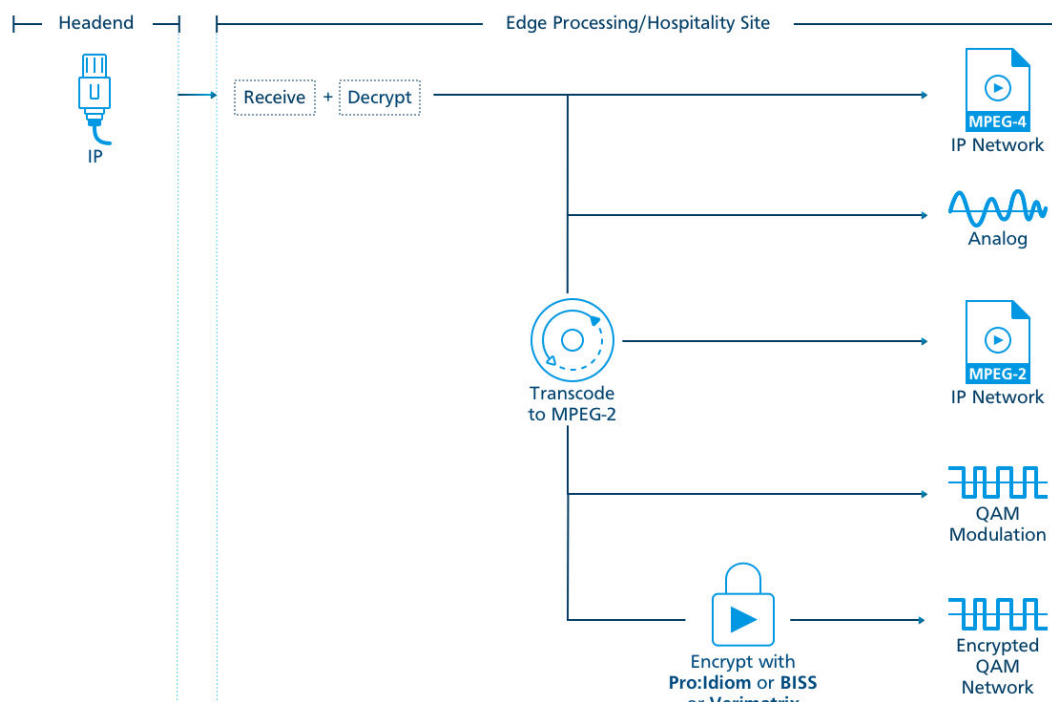Compatible with the WISI's intelligent headend product family: Inca, Tangram and Chameleon

Applications
Upgrade Hospitality Networks

WISI's headend and edge video platforms enable operators to serve all types of hospitality networks such as hotels, hospitals, nursing homes, educational institutions, and entertainment venues. No matter how your existing network is set-up, WISI products are able to seamlessly integrate and provide carrier-grade video delivery.

Example Hospitality Workflow
Ingest IP or QAM sources. Bulk decrypt Verimatrix or BISS at the edge before outputting as Analog, QAM or IP. Optionally re-encrypt using Pro:Idiom, BISS or Verimatrix.

| Headend | Edge Processing/Hospitality Site |

IP

Receive + Decrypt

MPEG-4
IP Network

Analog

Transcode
to MPEG-2

MPEG-2
IP Network

QAM
Modulation

Encrypt with
Pro:Idiom or **BISS**
or **Verimatrix**

Encrypted
QAM
Network

Benefits of Upgrading Video Services:

✔ Experience reliable and secure video delivery – cost-effective encryption and transport from headend to hospitality sites

✔ Gain flexibility by bridging new technology to legacy – convert video streams to any format at the edge, per use-case

✔ Reduce costs – replace proprietary encryption with industry-standard protection options

✔ Save rack space and power – replace multi-chassis systems with power-efficient, modular 1RU platforms

✔ Deliver multiple formats simultaneously - output IP, Analog or QAM from the same chassis

"
The Inca platform helped us future-proof Colonnade Boston Hotel's network, while delivering a smooth, clean transition to IP and preparing the property for a future where guests will expect video streams to be available on their tablets and smartphones. The management software and tools are fantastic. WISI really has thought of everything."

~ Stephen Clericuzio
President and CEO, iHospitality

Applications
SRT for Low-Latency Streaming

SRT (Secure Reliable Transport) is a video transport protocol used to deliver high-quality, low-latency video across unpredictable networks.

WISI, a member of the SRT Alliance, supports the SRT protocol in the WISI Intelligent Headend Product family – Inca, Tangram and Chameleon.
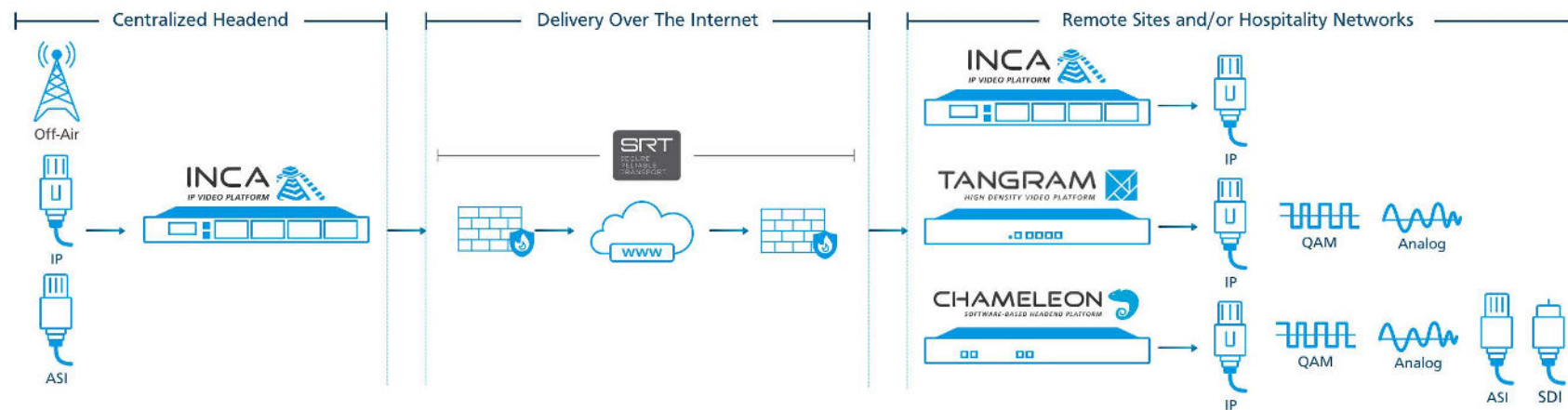
Video operators can now use SRT in WISI products to optimize streaming performance across noisy or open networks while protecting content securely and focusing on high-performance video.

Example – SRT Remote Site Delivery
Ingest 8VSB, IP or ASI streams and deliver with SRT. Convert at the edge to output as IP, QAM, Analog, ASI or SDI.

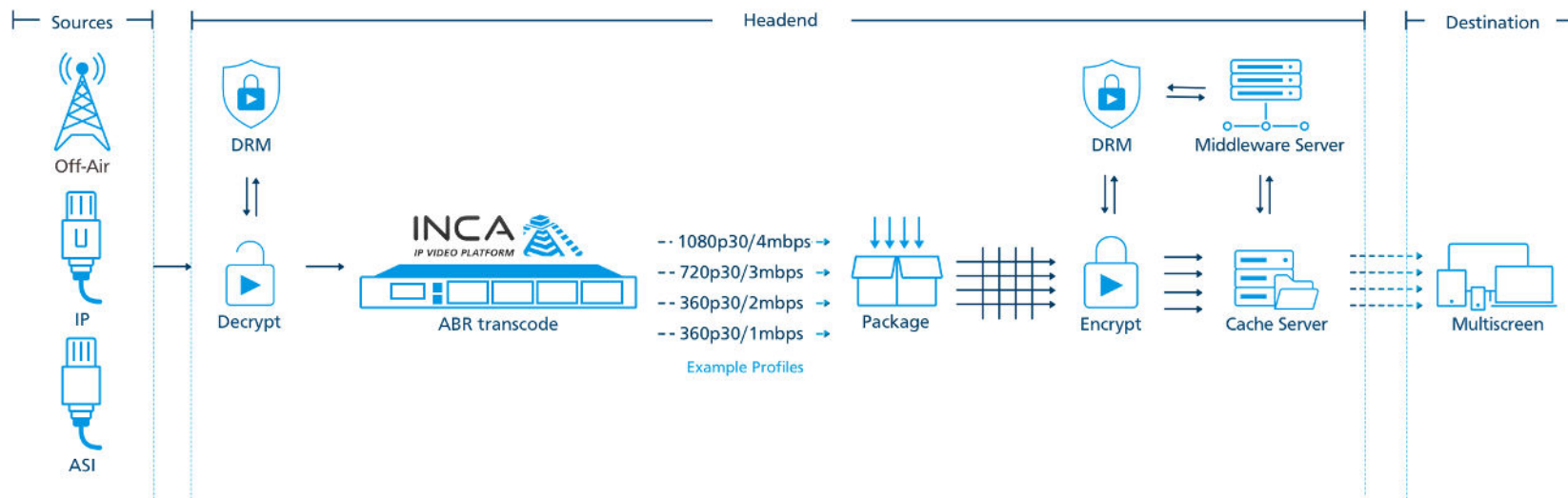# Applications
Transcode for Multiscreen Deployments

The multiscreen market is growing rapidly, and as more viewers enjoy the flexibility of consuming video at any time on a variety of devices, their demand for broadcast-grade quality is increasing. Operators can count on WISI's reliable ABR transcoder, part of the Inca IP Video Platform, to deliver high transcoding density and a high-quality, uninterrupted viewing experience.

Example – ABR Transcoding Workflow
Ingest 8VSB, IP or ASI streams and output adaptive bitrate streams

Applications
Hosted ABR Deployments

WISI has a variety of partners that enable operators to launch hosted adaptive-bitrate (ABR) services powered by WISI transcoding products.

Together, WISI and our ecosystem partners empower operators to offer full cable line-ups to end users via next-gen video delivery to multiscreen devices, removing the need for set-top boxes and truck rolls.

Benefits of managing streams for hosted platforms:

- ✔ Maintain control of source ingest and on-prem equipment while taking advantage of hosted features
- ✔ Experience consistent density and performance with high-quality outputs via reliable hardware transcoding
- ✔ Monitor streams with integrated analytics and troubleshooting tools prior to transport to centralized headend network
- ✔ Continue to offer local services to subscribers using new, innovative TV delivery methods

Rest Easy with Reliable 24/7 Operation

Technical Support Contract Includes:

- ✔ Initial guided tour of the user interface
- ✔ Diagnostic file analysis
- ✔ Application review and troubleshooting
- ✔ Direct access to developers and engineers when needed
- ✔ Customer portal access - WISI Connect

"

From the first time we dealt with WISI, support was unbelievable. If we had any issue, we could contact support and get results almost immediately. It was unbelievable then and still unbelievable now."

~ Randy Plaisier
CTO, CNI

Experience Support Backed by Industry Veterans

The WISI America support team consists of former cable and IPTV headend engineers who understand the daily complexities of managing a video headend.

Collectively, WISI America support team members have decades of experience in the field and are certified by the SCTE-ISBE as Digital Video Engineering Professionals (DVEP). A deep understanding of video applications allows them to expertly handle customers' configuration and troubleshooting questions.

Our customers experience reliable and efficient operation thanks to a responsive world-class team with strong industry, product and technical knowledge.

Charles Stone - WISI Support Team, Certified SCTE-ISBE Digital Video Engineering Professional

It's Time to Try It.

Our sales and product teams are available for project discussions and online demos.

Book a private online meeting at: sales@wisi.tv
To download datasheets and diagrams, visit: www.wisi.tv

WISI, Your Video Technology Solutions Partner

www.wisi.tv