INCA NETWORKS
A WISI Company

Inca Multiscreen Launch Platform
powered by field-proven streaming technology, Katamaran™

- ✔ **High-density 1 RU Transcoder, Packager and Origin Server**
- ✔ **Apple HLS - HTTP Live Streaming**
- ✔ **Source Audio: Dolby AC-3, AAC, MPEG Output Audio: AAC**
- ✔ **2 Gbps of output bandwidth**
- ✔ **Award-winning VidiOS™ Stream Analysis**
- ✔ **Redundant power supplies**

- ✔ Serves 500 HLS clients at 4 Mbps each via embedded Origin Server
- ✔ Transcodes 12 HD or 24 SD sources to Multi-Bitrate profiles
- ✔ Supports All Seeing Eye™ monitoring

The **Inca Multiscreen Launch Platform** is an all-in-one carrier-grade transcoder, live-streaming packager and origin server for high-value Internet video services. Transcode, segment and package up to 12 HD or 24 SD sources into HLS and serve up to 2 Gbps to downstream client devices. This affordable and efficient 1 RU solution includes automatic packager configuration for simple set-up.

Deployment Scenarios

- Headend IPTV multiscreen deployments
- Satellite distribution replacement
- Hospitality applications

Product Highlights

- ✔ Transcode and stream live content on your network to set-top boxes, TVs, smartphones and tablets
- ✔ Automatic playlist configuration
- ✔ Receive off-air sources and deliver them to multiscreen devices using WISI Chameleon or Tangram
- ✔ Enjoy powerful VidiOS™ management and troubleshooting tools with video thumbnails, stream capture and download, extensive statistical analysis, and transport stream event logging
- ✔ Experience streamlined OTT deployment
- ✔ Use the online Multiscreen Launch Platform getting started page to view your channel list and play output streams using any standard web browser; download and customize the reference design on your own server

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Technical Specifications

Hardware Transcoding and Packaging

Hardware Transcoding	**Multi-bitrate Profiles** Up to 12x HD sources to 4x ABR profiles Up to 24x SD sources to 2x ABR profiles *Various combinations of HD and SD sources are possible, please inquire*
Source Stream Format	SPTS/MPTS MPEG-2 Transport Stream
Source Video Codecs	MPEG-2 and MPEG-4 AVC, 4:2:0
Output Video Codec	MPEG-4 AVC
Source Audio Codecs	AC-3, EC-3, AAC (ADTS & LATM), MPEG 1/2 Audio Layer I/II
Source Audio Channels	7.1, 5.1, 2.0, 1.0
Output Audio Codec	AAC-LC, HE-AAC, HE-AAC v2
Output Audio Channels	2.0, 1.0
Output Streaming	Playlist and Segmentation for HLS Delivery HTTP Live Streaming up to 2 Gbps HLS Version 3 Segment duration - 6s, nominal
DVB Subtitles	Burned in, select by language
Multiple Audio Tracks	Multiple audio support for alternate languages, select in URL Additional audio transcode license required

Output Devices & Players

Devices	Stream to Smartphones, Tablets, HLS TVs and ABR-compatible Set-top Boxes. Tested with the latest Apple iOS, Samsung and generic Android devices, and Chromecast, streaming directly from the Multiscreen Launch Platform.
Players	Tested with embedded and software-based players in devices and modern browsers, streaming directly from the Multiscreen Launch Platform Device and player testing is performed at the output of the Multiscreen Launch Platform; CDN and proxy integration is the responsibility of the integrator.

Regulatory Compliance

EMC Standards	FCC Part 15 Class A
Safety Standards	CSA/UL 60950-1

Service Failover (optional)

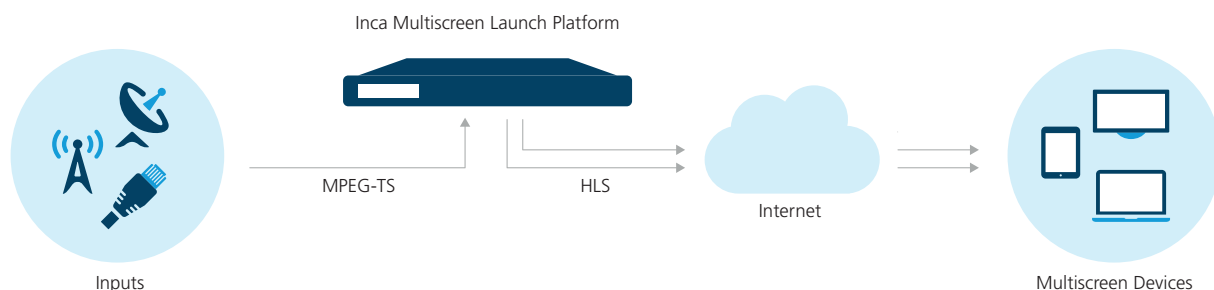|	
Service Failover	Automatic service failover to backup source
Licensed per output	Automatic recovery to primary source Monitor up to 6 parameters in primary source User configurable parameter and duration thresholds

Management and Monitoring

VidiOS™ Web-Based User Interface

Automatic Playlist Configuration

Inca All Seeing Eye Compatible

SNMP Trap Forwarding

Network Interfaces

Management	1000 Base-T
Video	7x 1000 Base-T
HLS output	Any network interface
NIC Redundancy	LACP, active failover, round robin

Power

Input	100 ~ 240 VAC @ 50 - 60 Hz
Power	<120W Typical
Redundancy	2 hot-swappable AC power supplies

Physical

Mounting	19", 4 Post Rack, 1 RU
Dimensions	431 x 44 x 468 mm
Weight	7 kg
Operating Temperature	0 ~ 40 °C

Inca Multiscreen Launch Platform

Inputs — MPEG-TS — HLS — Internet — Multiscreen Devices

To arrange an online demonstration or discuss your project, please send a request to **sales.na@incanetworks.com**

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