COMPLEXITY SIMPLIFIED

IPHRAME
REMOTE COMMENTARY

REMOTE LIVE COMMENTARY SOLUTION

With TIMELOCK
TIME COMPENSATED PROCESSING

As rights holders look to increase revenues the desire to produce more regionalised feeds is often tamed by the high costs of setting up the facilities and the difficulties in finding local voice talent with the correct language skills. **Iphrame Remote Commentary** is a solution to produce regionalised feeds at a fraction of the cost compared to traditional architectures.

Iphrame Remote Commentary supports a wide range of signals formats so any channel can be handled whether it be uncompressed IP, a channel in a multiplexed DVB transport stream or good old SDI.

The Remote Commentary Server generates proxy of the master channel (video+Audio) is sent to a remote commentator who can be located anywhere in the world.

The commentator can view the feed and adjust their local mix to monitor their commentary to their preference. The clean commentary feed is timestamped relative to the time the proxy was displayed using **TimeLock** and returned to the Remote Commentary Server.

Under the control of a Supervisor client the Commentary feed is mixed with the source audio before being combined back into the channel feed for output to the required format.

Through the use of proprietary TimeLock technology, the additional language commentary is guaranteed to be frame accurately aligned with the master channel video and audio. For channels received in a compressed format (*e.g. an existing DVB Mux*) the master channel video stream can be delayed in its native format thereby avoiding any loss of picture quality that would occur through an unnecessary decode/encode process.

All communications and signals are securely carried over the public internet via Suitcase TV's proprietary Virtual Broadcast Network (VBN) platform. VBN provides a secure tunnel over HTTPS with outbound connections through a statically addressed relay server removing the need for complex firewall, NAT or ACL configuration.

Communications across the VBN can be further encrypted using AES256 to protect against man-in the middle attacks and ensuring only the intended client/server has access to the feeds.

The solution removes the expense of building multiple commentary booths and employing local people for multiple languages. It improves viewer satisfaction through the use of true native speakers employed from within the targeted regions. As many freelance commentators may already have a small studio setup all they may need is the Remote Commentary Client software and they are ready to go.

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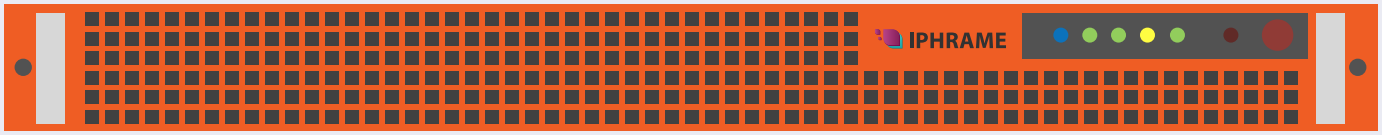
IPHRAME COMMENTARY SERVER



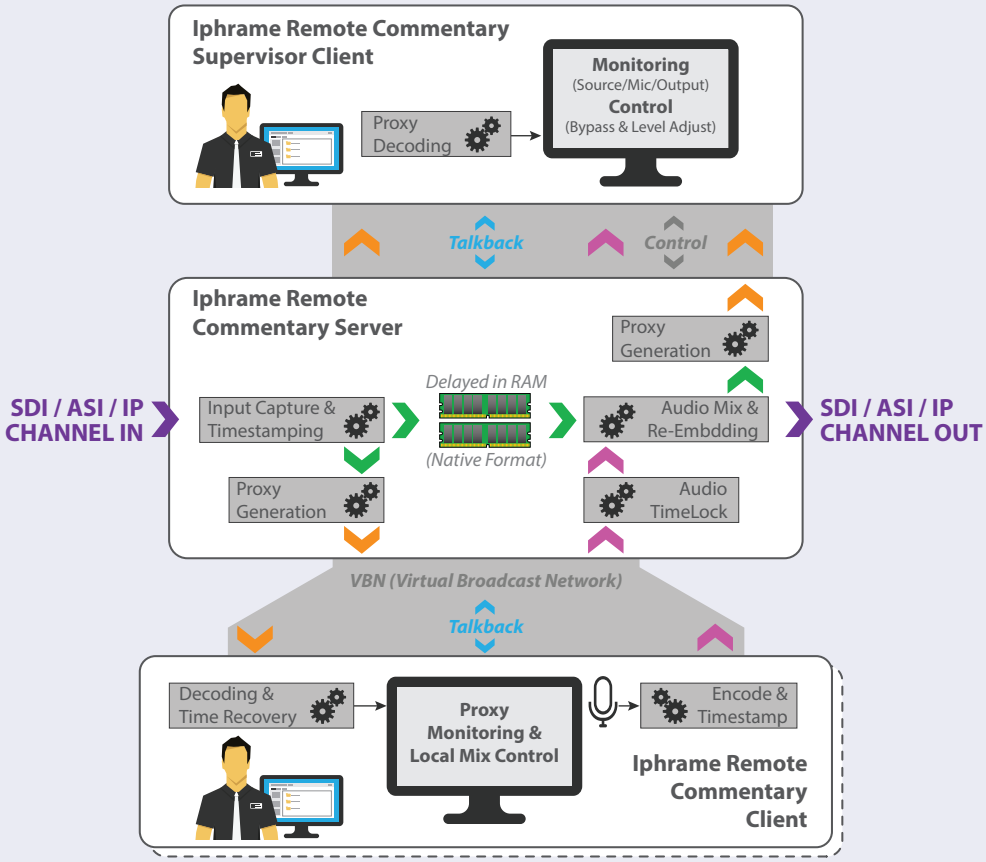
- 1-4 HD Channels per Server
- Compressed/Uncompressed IP, ASI or SDI Inputs
- Proxy generation/output (over VBN)
- Master feed native delay in RAM
- Commentary sync & mix (multiple languages per channel)
- Dual/Redundant PSU
- 10/25GbE networking (optional)
- 2/4/8HD-SDI/ASI input/output (optional)
- Hardware H264 Encoding (for full-res proxy) (optional)

Dims(mm): 437w 43h 429d
Weight: 10Kg

SUPERVISOR CLIENT

Available as PC Workstation or Laptop

User Interface	• Monitoring/Control UI (Single Channel • Monitoring & Control UI (Multi-Channel)
Monitoring	• Master Channel Source & Output (proxy) • Production Talkback • Commentary Feeds • Audio Level Meters (source/mic/output)
Proxy Resolution	• 640x360 @ 25/29.97 fps



REMOTE COMMENTARY CLIENT

Available as PC Workstation or Laptop

User Interface	• Monitoring/Control UI (monitor 1) • Full-Screen Preview (monitor 2)
Monitoring	• Master Channel Feed (proxy) • Production Talkback • Local Commentary Mix • Audio Level Meters (source/mic)
Proxy Resolution	• 960x540 / 1920x1080 @ 25/29.97 fps

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