



---

# AV Distribution Technology Comparison

HDBASET vs. AVOIP vs. IPTV

---

## AV Distribution Technology Feature Comparison

	HDBaseT	AV over IP	IPTV
Compression Method	Uncompressed	Light compression, typically proprietary intra only	MPEG-based, open standard, versatile and configurable compression; Flexible levels from highly compressed to intra-only lossless compression
Compression Efficiency	None	2x to 6x @4K	2x – 3000x @4K (Typical is ~2500x @4K)
Video Formats Support	SD up to 8K	SD up to 4K	SD up to 8K
Audio Formats Support	Pass-through	Pass-through	Encoding stereo, Dolby up to Pass-through
Unicast (point to point)	✓	✓	✓
Multicast (point to multi point)	✗	✓	✓
Network/Bandwidth Requirements	Requires dedicated network runs, 1Gbps minimum, point to point	Requires dedicated network runs; Requires dedicated edge and core switches due to the high bandwidth utilization of each channel (~1Gbps per channel)	Extremely efficient; Can run on the main enterprise LAN and WAN; No need for separate infrastructure (~10Mbps per channel for HD, ~30Mbps per channel for 4K)
Co-exist with other IT applications on the data LAN	✗	✗	✓
View on TV	✓	✓	✓
View on PC	✗	✗	✓
View on Mobile device	✗	✗	✓
Latency	~15ms	~15ms	50ms in ultra-low latency mode with professional decoders; Typical latency ~350ms

	HDBaseT	AV over IP	IPTV using MPEG
Error resilience	✗	✗	Yes, built-in buffering to accommodate for network jitter; ProMPEG, SRT and Zixi for lossy / noisy networks such as the public internet or WAN
Distance Supported	Limited to hundreds of feet	Unlimited within LAN	Unlimited within LAN and WAN
Wired devices support	✓	✓	✓
Wireless devices support	✗	✗	✓
Send video/audio to remote sites	✗	✗	✓
Send video/audio to users over the internet	✗	✗	✓
Send video/audio to users over VPN connection	✗	✗	✓
Encryption support	HDCP	HDCP	HDCP / AES/ Pro:Idiom
Unified Standard – interoperable with other vendors	✓	✗	✓
On Demand Recording	✗	✗	✓
Digital Signage Support	✗	✗	✓
Interoperable with gear from other vendors	✓	✗	✓
Encoding Redundancy	✗	✗	✓
Permissions and Access Management	✗	Limited	Dynamic and Detailed Level Control