WNDR CODEC

The Future of Ultra-Low Latency Video Transmission Technology
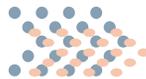
Glass-to-Glass Latency
< 50ms
Target Goal: 24ms

Three Core Technologies

CODEC OPTIMIZATION

- H.264 / H.265 Based Optimization
- 1/60 Latency Reduction Ratio Consistent
- Performance Regardless of FPS

NETWORK EQUALIZATION

- Micro Block Decomposition Technology
- TRUE CBR Implementation
- Elimination of Stuttering / Freezing / Artifacts

DIRECT RENDERING

- Intermediate Buffering Elimination
- Transmission/Reception Time Matching
- Zero Delay Implementation

Application Fields

DRONE/ROBOT
Remote Control
& Real-Time Monitoring

AUTONOMOUS DRIVING
High-Speed Video
Recognition & Stability
Assurance

LIVE BROADCASTING
Delay-Free Sports /
Broadcast Streaming

VR / AR
Immersive Real-Time
Interactive Experience

Interactive Media, Cloud Game & Metaverse & Tele-Operation

With WNDR CODEC ultra-low latency and immersive video, everything becomes possible from remote locations.

Existing Latency:500~3,000ms >>> WNDR CODEC: < 50ms

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INDUSTRY APPLICATIONS & EXPECTED EFFECTS

Top Left (Ultra-Low Latency)
Right (Standard Network Camera)

TECHNICAL ADVANTAGES

Glass-to-Action Implementation

Software Only Upgradeable

Support for Various Network Environments (5G/LTE/LAN/Wi-Fi)
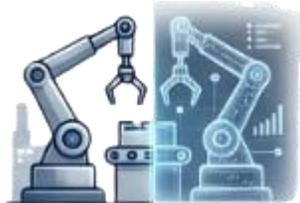
BUSINESS MODEL

Autonomous Driving

- Real Time Hazard Detection
- Reduced Braking Distance
- Enhanced Safety

Remote Medical

- Precision Surgery Control
- 〈24ms Target Latency
- Zero Delay Tolerance

Industrial Robot & Digital Twin

- Real Time Synchronization
- Remote Control Precision
- Smart Factory Integration

Defense & Drone

- Obstacle Avoidance at high speed
- Precision Strike Control
- 99.9% System Reliability