

RTEV

REAL-TIME ENHANCED VIDEO

Video & Imagery Enhancement
Without Added Latency



zmicro.com

Clarity. Control. Confidence.

ZMicro's Real-Time Enhanced Video (RTEV) is a unique and proprietary technology that processes demanding algorithm enhancements in "real time," without adding latency to the video. By leveraging an FPGA hardware-based algorithm, RTEV is able to perform advanced operations as the video is received, improving image quality and decision-making capabilities at the moment of reception.

Enhancements for Any Environment

RTEV provides operators with adjustable settings and controls for quick precision tuning of algorithms and the ability to quickly toggle enhancements on and off. Implemented in our rugged displays and hardware, users can tweak algorithm settings using on-screen display (OSD) menus or Application Programming Interface (API) commands. For advanced controls ZMicro offers a Graphical User Interface (GUI) featuring intensive algorithm adjustments from an easy-to-use software menu.

Advanced Open-Architecture Algorithm Processing

Our team of experts develop custom-tailored algorithms for tough environments. ZMicro's Clarifier and Dehaze algorithms significantly improve video quality in a number of degraded visual environments. Real Time Enhanced Video (RTEV) optimizes operating efficiency by improving the capabilities of displays, handhelds, and other systems with our custom integration solutions. Contact your local ZMicro Sales Representative for additional options and support for 3rd party algorithms.

RTEV is available in all ZMicro displays!



Implementation options also include: handhelds, low-profile integration box, video switch, and more.

HIGHLIGHTS

- Video & imagery enhancement for any environment
- Advanced algorithm operations without added latency
- Operator controlled algorithm adjustments
- Large-kernel locally adaptive contrast enhancement
- Globally adaptive dehazing algorithm
- Advanced histogram enhancement processes
- Agnostic support for any video format

FOR MORE INFO

Contact us at sales@zmicro.com
or call 858.831.7000.

BEFORE & AFTER (Actual enhancement images; no manipulation has been performed.)

Underwater



Fog



Sand



Smoke



Smog



Snow



REAL-TIME ENHANCEMENT VIDEO PRODUCTS



Rugged Displays

All ZMicro rugged displays can support video enhancement capabilities.



Insight

Standalone product designed to reside in an existing architecture's video stream.



Clarity

Video enhancement product designed for medical applications.