

# MiniLink<sup>®</sup> Encoder

## Real Time MPEG-4 Video Server/Encoder

### Product Features

- Compatible with MicroTek's MiniLink Decoder and WES systems
- MPEG-4 video compression, CIF to D1 resolution - up to 30 fps
- QoS enabled (L2, L3) video streaming, Unicast/Multicast – automatic and selectable frame rate control
- 2 Alarm I/O ports
- RS-485/422 and RS-232 data capability
- Dual stream video via LAN & WAN ports, PPPoE and DDNS supported
- Network upgradeable, password protected

The **MiniLink<sup>®</sup> Encoder (ML-ENC)** is a high resolution, IP/Ethernet (LAN/WAN) ready digital video server/encoder. Encode video and data from a new or existing analog camera to MPEG-4 digital video for streaming over a wired or wireless network. Specifically designed to meet the increasing need for high quality, reliable, real-time video applications, the MiniLink Encoder is ideal for retrofit or new video surveillance applications. Connect an encoder via MicroTek's Wireless Ethernet System for ultimate flexibility in locating a camera in an area where it is not possible or cost prohibitive to run wire. For end-to-end analog connectivity, use the ML-ENC with a **MiniLink<sup>®</sup> Decoder (ML-DEC)**.

The **MiniLink Encoder (ML-ENC)** supports automatic/manual frame rate control for accessing concurrent video streams in different bandwidths via the LAN/WAN ports. View and record D1 resolution video at full frame rate while also providing a video stream to other users on the network. Additional functions include alarm inputs/outputs and a RS-485/422/232 port for serial device communication or Pan/Tilt/Zoom control. Flash upgrade to the latest version of firmware remotely via the network.



The **MiniLink Encoder (ML-ENC)** requires no computer programming for standard operation – simply plug and play. For advanced setup such as setting IP addresses, changing the User ID/Password, configuring network settings, etc., the system employs an easy to use web browser interface.

The MiniLink Encoder/Decoder and WES systems provide an ideal solution for many applications. Following are a few examples:

- Security & Surveillance – School and Corporate Campuses, Warehouses, Retail, Manufacturing, Public Attractions, Ranches, Stables and Farms
- Intelligent Traffic Control Systems – Highways, Intersections, Parking Lots and Garages
- Homeland Security – Ports, Airports, Borders, Utilities, Parks and Monuments
- Government Agency and Military – Bases, Forward Deployment, Special Operations Teams
- Law Enforcement – Local and State Police, Bomb Squads, Search and Rescue Teams



# MiniLink® Encoder

## Technical Specifications

### IMAGE

Compression	MPEG-4 compliant hardware compression
Digital Resolution	QCIF (160 x 112 - NTSC, 176 x 144 - PAL) CIF (352 x 240 - NTSC, 352 x 288 - PAL) D1 (720 x 480 - NTSC, 720 x 576 - PAL)
Image Frame Rate	30 fps full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL)

### NETWORK

Protocol Supported	TCP, UDP, HTTP, PPPoE, DDNS, DHCP, IGMP
QoS	Layer 2, 3
Software OS Supported	WIN 2000, Win XP, Win 2003
Security	Password/username protection for restricted access

### INTERFACE

WAN Port	RJ-45 (10/100base-T)
LAN Port	RJ-45 (10/100base-T)
Serial Port	4 pin terminal block (RS-232/422/485) – mode dip switch selectable
Analog Video Input	Composite, BNC connector (NTSC, PAL)
Analog Video Output	Composite, BNC connector (NTSC, PAL)
Digital Alarm I/O	6 pin terminal block
Connection Type	TTL 2 inputs, 2 outputs
Digital Alarm Input (DI)	To Trigger (low) logic level 0: 0 ~ 0.8 V Normal (high) logic level 1: 2.31 ~ 5.3 V
Digital Alarm Output (DO)	To Trigger (high) logic level 1: 2.8 ~ 3.3 V Normal (low) logic level 0: 0 ~ 0.5 V
General	Built-in web server and network interface

### MECHANICAL

Physical	Metal housing, not weatherproof
Dimensions	1.56" x 4.72" x 5.37"
Weight	12.9 oz
Certification	CE, FCC Class B

### POWER

Power Requirements	12 VDC @ 625 mA, 7.5 W
Power Supply	12 VDC 1500 mA, wall transformer supplied

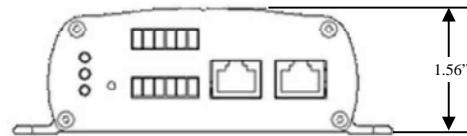
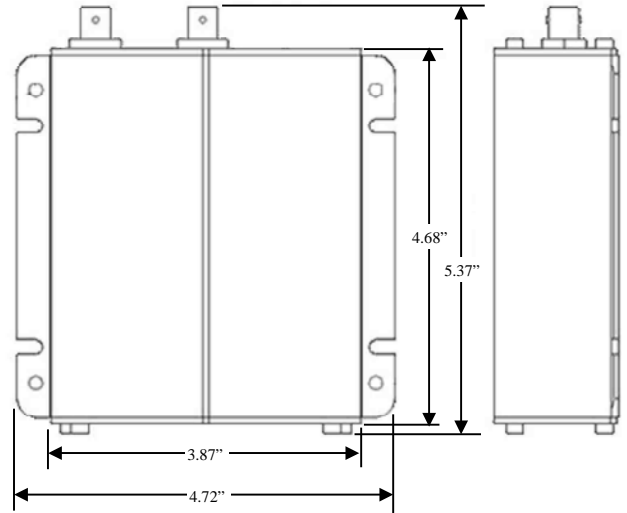
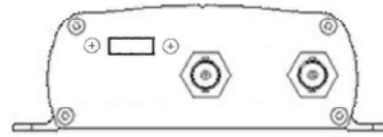
### ENVIRONMENTAL

Humidity	10% ~ 90%
Operating Temperature	0 to +122F

### PART NUMBERS

ML ENC	Includes Video Server/Encoder and power supply
ML EDKT	Includes Video Server/Encoder, Decoder, mounting hardware, power supplies and one enclosure

### DIAGRAM



Each ML-EDKT Kit includes:

- 1 – Video Server/Encoder
- 1 – Decoder
- 1 – Environmental Enclosure & Mounting Hardware
- 1- Set of connectors for alarm for I/O and Data interface
- 2- 12 VDC 1.5A Power Supplies



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