

### MPEG-2/MPEG-4/JPEG

#### Description

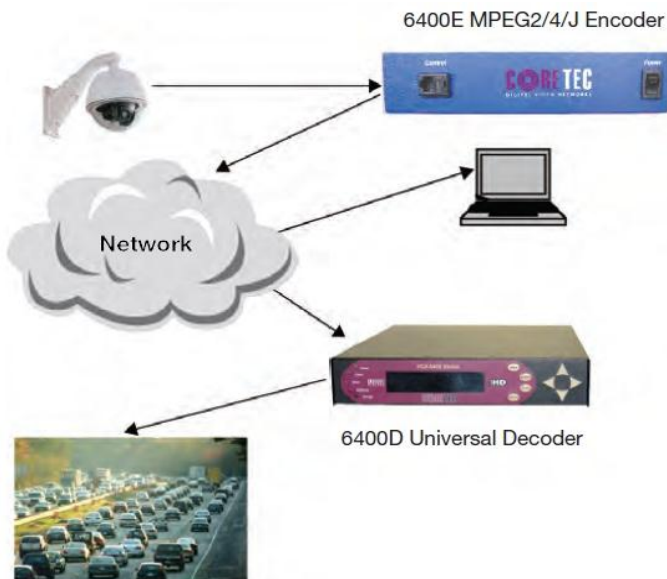
The VCX-6400-E Series Encoder is a highly capable, field proven product which has become standard for encoding in challenging environments. The unit supports dual, simultaneous MPEG-2 and MPEG-4 feeds over a full range of resolutions as well as JPEG frame capture through a 10/100 Ethernet interface. Local and remote diagnostics are provided through visual display, web interface and SNMP.

The encoder allows easy transport and sharing of IP video with local, state & Federal agencies, simultaneously transmitting both high resolution & internet quality video.

Applications include:

- Intelligent Transportation Systems
- Mass Transit
- Remote Surveillance
- Remote Broadcast
- Networked Video

The VCX-6400-E Video Encoder meets the NEMA TS-2 Standard for Traffic Control Equipment.



#### Features

- Simultaneous, dual video encoding
  - JPEG Frame Capture
  - MPEG-2
  - MPEG-4 (SP & ASP)
- Standard resolution D1 to QCIF @ variable frame rate
- NTSC & PAL
- Built in time base correction supports stable sync signal
- 10/100 Ethernet interface
- 2 low speed serial channels (RS-232/422)
- Rack-mount card cage versions available
- Advanced diagnostics
- Unicast or multicast (IGMPv.2)
- 110 or 240 VAC power

VCX-6400  
Rack Mountable Half Size Encoder



## Video

### Input and Output

# channels	1 or 2 channel		
Standards	NTSC (EIA RS-170), PAL(CCIR 624)		
Voltage	1 volt p-p 75Ω 50/60HZ		
Compression	MPEG4, JPEG		
Connector	BNC		

### Resolution & Maximum Frame Rate

Frame Rate	1-30 fps		
Resolutions	NTSC	PAL	MPEG-
D1	720 x 480	720 x 526	2,4
4CIF	704 x 480	704/576	2,4
1/2	720 x 240	720 x 288	2,4
2/3	480 x 480	480 x 576	2
CIF	352 x 240	352 x 288	2,4
QCIF	176x120	176x144	4

### Stream Type

MPEG-4	Program, Elementary, Transport
MPEG-2	elementary RTP
JPEG	Frame grabber

## Network

### Data Rate

MPEG-2	1-6 Mbps
MPEG-4	56 Kbps - 4 Mbps

### Ethernet

### Interface

RJ-45  
10/100BaseT

### Protocols

DHCP, TCP, UDP, IP(v.4), RTP,  
IGMP(v.2), TFTP, FTP, SNMP v2,  
QoS/DiffServ, Telnet

## Serial Data

### Protocol

RS-232/422

### Programming

RS-232

### Data Rate

up to 115.2 Kbps (NRZ)

### Connectors

RJ-45

## Programming & Diagnostics

### Modes

Physical	RS-232 programming port
Remote	Telnet, Web Interface

## Visual

LED's	Scrolling LED display (Full Size)
Display	2-Line Scrolling LED(19" Unit)

## Electrical

### Voltage

95-130VAC, 200-240VAC

### Current Draw

Stand-alone unit	58mA@120VAC
Rack-mount card	400mA@12VDC

## Mechanical

### Dimensions

Full Size	19"W x 1.75"H x 12"D
Half Size	8.5"W x 1.75"H x 12"D
Card	5.2"W x 0.9"H x 10.2"D

## Environmental & Regulatory

### NEMA TS2 Shock, Vibration and Transients

Temperature	(-)34°C to +74°C (Operating) (-)40°C to +74°C (Storage)
Humidity	0 to 95% Non-condensing (Conformal Coating Available Upon Request)

## Ordering Information

Physical	# inputs	Config	Part Number
Full Size	1	MPEG2	6421-1120-1001
	2		6421-1110-2001
	1	MPEG4	6421-1110-3001
	2		6422-1110-4001
	2	1 MPEG2, 1 JPE	6422-1110-5001
	2	1 MPEG4, 1 JPE	6422-1110-6001
Half Size	1	MPEG2	6421-1120-1001
	2		6422-1120-2001
	1	MPEG4	6421-1120-3001
	2		6422-1120-4001
	2	1 MPEG2, 1 JPE	6422-1120-5001
	2	1 MPEG4, 1 JPE	6422-1120-6001
Card	1	MPEG2	6421-1120-1001
	2		6422-1200-2001
	1	MPEG4	6421-1200-3001
	2		6422-1200-4001
	2	1 MPEG2, 1 JPE	6422-1200-5001
	2	1 MPEG4, 1 JPE	6422-1200-6001

## Compatible Products

Hardware Decoding	VCX-6400- D-Series Decoders
Software Decoding	SMV-6400 Stand-alone media player
	WMV-4400 Video Matrix Viewer
	SWL/S/C-6400 Watchdog
Card Cage	R-12 Series Rack Mount Card Cage