

MPEG-2/MPEG-4/JPEG

VCX-6400-E

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.

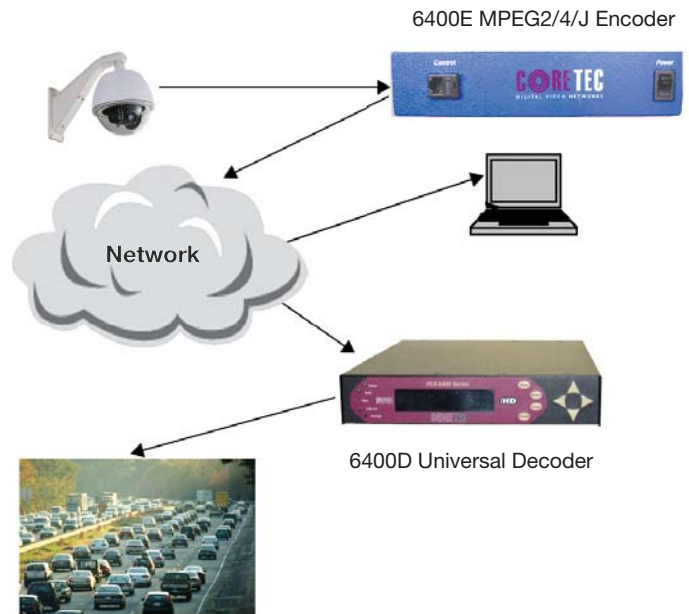
Applications include:

- 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.



TYPICAL CONFIGURATION



VCX-6400 Rack Mountable Half Size Encoder



Card Cage Model for R12 Rack

FEATURES

- Simultaneous, dual video encoding
 - MPEG-2
 - MPEG-4 (SP & ASP)
- NTSC & PAL
- JPEG frame capture
- Resolutions from D1 to QCIF @ variable frame rates
- Built-in time base correction supports stable sync signal
- Advanced diagnostics
- 10/100 Ethernet interface
- 2 low speed serial channels (RS-232/422)
- Unicast or multicast (IGMP v2)
- Meets NEMA TS2 (-34 to +74 C)
- 110 or 240 VAC power
- Rack-mount card cage version available

VCX-6400-E

VIDEO

Input	
# channels	1 or 2
Standards	NTSC (EIA RS-170) PAL (CCIR 624)
Voltage	1 volt p-p 75Ω, 50/60 Hz
Connectors	BNC

Compression/Streams

MPEG-2	program, elementary, transport
MPEG-4 (SP, ASP)	elementary RTP
JPEG	frame grabber

Resolution (NTSC/PAL)	MPEG-2	MPEG-4
D1 (720x480/720x576)	✓	✓
4CIF (704x480/704x576)	✓	✓
2/3 D1 (480x480/480x576)	✓	
1/2 D1 (352x480/352x576)	✓	✓
CIF (352x240/352x288)	✓	✓
QCIF (176x120/176x144)		✓

Frame Rate 1 – 30 fps

Configuration options – see ordering information

NETWORK

Data Rate	
MPEG-2	1 – 6 Mbps*
MPEG-4	56 Kbps - 3.5 Mbps*
	* Combined bit rate limited to 6 Mbps

Ethernet Interface	10/100 BaseT (IEEE 802.3,802.3u)
Protocols	RJ-45 IP v.4, TCP, UDP, IGMP v.2, DHCP, TFTP, QoS/DiffServ, SNMP v2, RTP, Telnet

SERIAL DATA

Format	RS-232/422
Handshaking	Software Selectable
Data Rate	Up to 115.2 Kbps
Connectors	RJ-45

PROGRAMMING & DIAGNOSTICS

Modes	
Physical	RS-232 port
Remote	Telnet, Web Interface, SNMP, TeraTerm, Watchdog CCS

Visual	
Display	2-Line Scrolling LED (19" Rack Mount)
LED	Video Loss, Sub-Channel Activity

ELECTRICAL

Voltage	95-130VAC, 200-240VAC
Current draw	
Stand-alone Unit	58mA@120VAC
Rack Mount Card	400mA@12VDC

MECHANICAL

Dimensions	
Stand-alone	
Full Size:	19"W x 1.75"H x 12"D (1RU)
Half Size:	8.5"W x 1.75"H x 12"D (1RU)

Card: 5.2" W x 0.9" H x 10.2" D

ENVIRONMENTAL

NEMA TS-2 2003, Section 2

Temperature	-34°C to +74°C
Humidity	0-95% Non-Condensing
Passes Shock, Vibration & Transients	
Conformal Coating Available Upon Request	

ORDERING INFORMATION

Physical	# Inputs	Configuration	Part Number
19" full width (w/scrolling display)	1	MPEG-2	6421-1120-1001
	2		6422-1110-2001
	1	MPEG-4	6421-1110-3001
	2		R6422-1110-4001
	2	1 MPEG-2, 1 JPEG	6422-1110-5001
	2	1 MPEG-4, 1 JPEG	6422-1110-6001
8.5" width (LED's only)	1	MPEG-2	6421-1120-1001
	2		6422-1120-2001
	1	MPEG-4	6421-1120-3001
	2		6422-1120-4001
	2	1 MPEG-2, 1 JPEG	6422-1120-5001
	2	1 MPEG-4, 1 JPEG	6422-1120-6001
Card Only	1	MPEG-2	6421-1200-1001
	2		6422-1200-2001
	1	MPEG-4	6421-1200-3001
	2		6422-1200-4001
	2	1 MPEG-2, 1 JPEG	6422-1200-5001
	2	1 MPEG-4, 1 JPEG	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 Software SWL/S/C-6400 Watchdog Software
Card Cage	R-12 Series Rack-mount Card Cage

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