

### Features

- DVD-quality MPEG-2 video codec
- Environmentally hardened
- Low-latency (< 150ms)
- Bandwidth-efficient multi-stream
- Password protected Web-interface
- Unicast and multicast support
- Ruggedized and compact
- SNMPv2 network management
- Five year warranty

### Description

Optelecom-NKF's cost-effective C-10 encoder and decoder are designed for DVD-quality video surveillance over IP networks. The encoder can simultaneously stream various picture rates, to limit bandwidth during live monitoring, background recording, video content analysis, etc. By supporting IGMPv2 multicast the C-10 efficiently uses available network capacity. The C-10 offers cost-effective migration from analogue CCTV to IP networks without loss of quality.

Both encoder and decoder are designed and tested to operate under industrial conditions, characterized by a wide operating temperature range (-40 to +74°C) and mechanical stress (vibration and shock).



C-series

MPEG-2

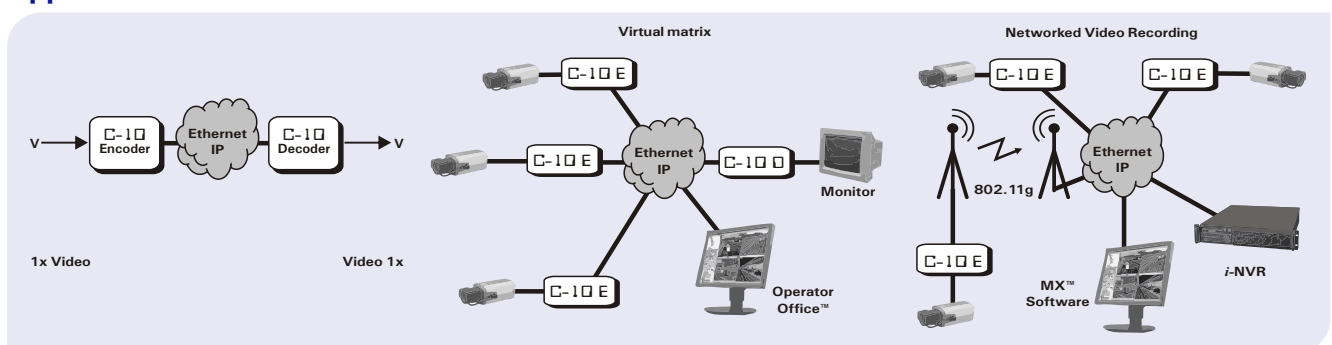
C-10 codecs are elements of Optelecom-NKF's Advanced IP-Video Network solutions offering seamless integration of video management, network recording, control and operating software, and video content analysis software. All systems within Optelecom-NKF's Advanced IP-Video Network solutions interoperate.

Configuration and management are simplified by the built-in web-interface and SNMPv2 agent. Full in-band control is available through Optelecom-NKF's software suites (MX™ and Operator Office™). The MPEG-2 codec comes as a Eurocard module to be slotted into an Optelecom-NKF MC 11 power-supply cabinet or as a stand-alone (/SA version) and is firmware upgradeable.

### Ordering information

Model	Description	Interface	Housing	Managed
C-10 E /IP	Ethernet MPEG-2 video encoder	10/100Base-TX	rack-mount	SNMP/MX
C-10 D /IP	Ethernet MPEG-2 video decoder	10/100Base-TX	rack-mount	SNMP/MX
C-10 x /IP/SA	Stand-alone version of rack-mount model		stand-alone	SNMP/MX

### Applications



## Technical Specifications

### Video

Video format	PAL/NTSC	
In-/output level	1 Vpp (±3 dB)	
Number of inputs	1	
Number of output streams	3 (multi- and/or unicast)	
Video connector	BNC 75 Ω (gold-plated center pin)	
Compression algorithm	MPEG-2	
Encoding-decoding latency	120 ms (no B-frames)	
Resolution (HxV)	<b>PAL</b>	<b>NTSC</b>
D1	720x576	720x480
2/3D1	480x576	480x480
HD1	352x576	352x480
CIF	352x288	352x240
Frame rate	1 to 30 fps, configurable per stream	
Data rate	up to 15 Mbps, configurable per stream	

### Transmission interface

Number of interfaces	1
Interface	10/100Base-TX Fast Ethernet
selectable	auto-negotiation, half-duplex/full-duplex, 10/100 Mb
Protocols	MPEG-ES or TS, RTP, UDP, IP, DHCP, IGMPv2, MX/IP, HTTP, SNMPv2
Connector	RJ45

### Powering

Power consumption	< 6 W
Rack-mount units	MC 10 and MC 11 power-supply cabinets
Stand-alone units (/SA)	11 to 16 Vdc (PSA 12 DC/25 or PSR 12 DC)

### Management

LED status indicators	
DC	Power-on indicator (green)
NV	No video on in- or output (red)
SYNC	All links are operational (green), failure in RX stream(s) (yellow), failure in TX stream(s) (red)
Ethernet port	Green LED: on = 100 Mb, off = 10 Mb; Amber LED: on = link okay, flashes with activity.
Network Management & Control	SNMPv2, SNM™, MX™, HTTP (password protected)
MIB variables	Network settings and statistics, MPEG-2 settings (GOP), video settings, data settings, stream control, PS Voltages, module temperature, module status, configuration, etc

### Environmental

Operating temperature	-40 to +74°C
Relative humidity	< 95% (no condensation)
MTBF	> 200,000 h
Safety & EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000 EN 50130-4, EN 50081-1, EN 55022, FCC part 15

### Mechanical

Dimensions (hwxwd)	128 x 34 x 190 mm
Weight (approx.)	450 g
Housing	Rack-mount or stand-alone

