

New Product Introduction

C-44

- 4-channel MPEG-4 video encoder and decoder
- Motion JPEG
- DVD-quality video
- Triple-core encoding per channel
- Video motion detector per channel
- High density
- 2-way (PTZ) data
- Password protected Web-interface
- SNMPv2 network management
- RTSP, UDP (unicast/multicast) and TCP support
- Remote upgrade support



The C-44 MPEG-4 video encoder and decoder complement Optelecom-NKF's IP CCTV portfolio with a cost-effective, multi-channel solution. The C-44 MPEG-4 video compression algorithm stands out for its DVD-quality video performance at both high and low bitrates.

C-44 E encoder

The C-44 E encoder is built around 4 DSPs; one per analogue video input. Each DSP is capable of running two MPEG-4 encoders as well as an M-JPEG encoder for various applications: high quality MPEG-4 for live viewing, reduced frame rate MPEG-4 for time-lapse recording and JPEG images for web-applications or remote devices (e.g., PDAs).

C-44 D decoder

The C-44 D decoder can decode 4 incoming MPEG-4 streams and convert them to analogue video signals in order to drive analogue CCTV monitors. By integrating 4 independent decoders in a single slot cassette, the C-44 D realizes a very cost-effective decoder solution. Each decoder uses its own DSP for optimal performance and crystal clear images.

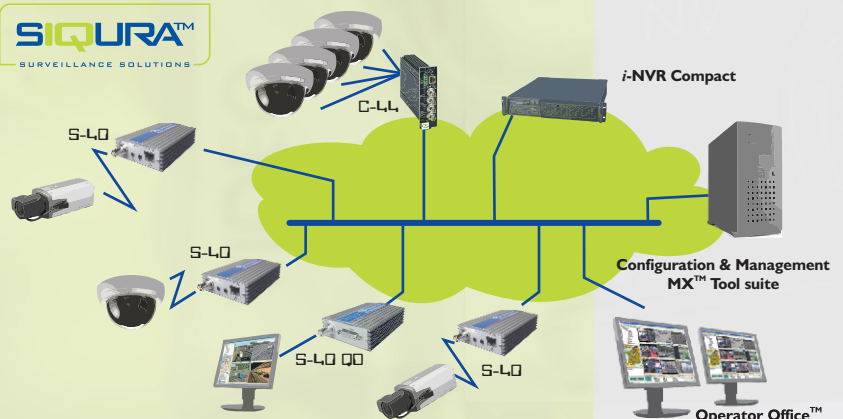
PTZ data and fiber option

To migrate analogue CCTV services to IP, the versatile C-44 combines video with two-way serial data (e.g., for PTZ-control) and video motion detection (VMD). Both C-44 E and D are available with a pluggable SFP slot for connections via a fiber optic cable. A range of multimode or single-mode XNet™ SFP devices fit the empty SFP slot.

Versatile CCTV solutions

C-44 codecs are components of Optelecom-NKF's advanced IP-video network solutions offering seamless integration of video management, network recording, client and control software, and video content analysis software. All products within Optelecom-NKF's advanced IP-video network solutions interoperate. The C-44 comes in a Euro-cassette housing to be slotted into an Optelecom-NKF MC 11 or MC 10 power-supply cabinet. Configuration and management are simplified by the built-in web-interface, SNMPv2 agent. Full in-band control is available through Optelecom-NKF's software suites (MX™ Configuration Toolkit and Operator Office™).

Model	Description	Housing	Managed
C-44 E	4-channel MPEG-4 video encoder/server with 2-way (PTZ) data, 10/100Mb	RM	SNMP/MX
C-44 D	4-channel MPEG-4 video decoder with 2-way (PTZ) data, 10/100 Mb	RM	SNMP/MX
C-44 E-SFP	4-channel MPEG-4 video encoder/server, 2-way data and empty 100Mb SFP slot	RM	SNMP/MX
C-44 D-SFP	4-channel MPEG-4 video decoder, 2-way data and empty 100Mb SFP slot	RM	SNMP/MX
C-44 xx /SA	Stand-alone version of rack-mount models	SA	SNMP/MX



Video

Video channels	4x PAL/NTSC (Auto-detect)
Input/Output level	1 Vpp (±3 dB)
Compression algorithm	MPEG-4 SP Layer 5 (ISO/IEC 14496-2), M-JPEG
Number of encoders	2x MPEG-4 and M-JPEG per input
Number of output streams	10 (multi- and/or unicast) per input
Input/Output impedance	75 Ω
Encoding-decoding latency	< 200 ms
Resolution (HxV)	PAL NTSC
D1	720x576 720x480
HD1	352x576 352x480
2CIF	720x288 720x240
CIF	352x288 352x240
QCIF	176x144 176x120
Frame rate	1 to 30 fps
Data rate	9,6 kb/s to 6 Mb/s
Video motion detection	Yes
Connector type	4x BNC (75 Ω)

Data

Number of channels	1 (full-duplex)
Number of streams	3 (multi- and/or unicast)
Interface	RS422/485 (2- or 4-wire)
Format	Asynchronous, serial
Data rate	300 b/s to 19.2 kb/s
Latency	< 5 ms
Connector type	5p screw terminal

Transmission interface

Number of interfaces	1
Interface	
C-44 E, C-44 D	10/100Base-TX Fast Ethernet (IEEE 802.3)
C-44 E /SFP, C-44 D /SFP	Selectable: auto-negotiation, half-duplex/full-duplex, 10/100 Mbps
Protocols	Optical interface slot for SFP devices
Connector	MPEG-4 ES, JPEG, RTP, RTCP, TCP, UDP, IP, DHCP, IGMPv2, RTSP, (S)NTP, MX/IP, HTTP, SNMP v2, FTP
	RJ45

Powering

Power consumption	< 9 W
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Management

LED status indicators	
DC	Power-on indicator
SYNC	All streams connected (green); failure in RX streams (amber); failure in TX streams (red)
NV	Video signal loss on input (red LED)
Ethernet port	Green LED: on = 100 Mbps, off = 10 Mbps, Amber LED blinks with activity
Control	SNMP v2, MX™, HTTP (password protected), RTSP
On Screen Display	Video overlay: any position, displaying time/date or ASCII string

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 (h x w x d)	128 x 34 x 190 mm
Weight (approx.)	450 g
Housing	Rack-mount or stand-alone (/SA)

In line with Optelecom-NKF's policy of continuous product improvement, we reserve the right to vary descriptions and specifications without notice.

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