NETTUNO ™
codec

NETTUNO is a standalone, non-PC based, compact, solid state, fully embedded video codec capable of encoding and decoding video and audio from an analogue video/audio source in real time.

NETTUNO uses a dedicated 720Mhz programmable DSP to deliver full frame, full resolution, excellent visual quality real-time video and audio encoding and decoding on-the fly, all-in-one compression engine that is capable of multi stream MPEG4, H.264, Wavelet and Enpacta™.

NETTUNO is compatible with any analogue camera and incorporates a fully integrated single bi-directional audio channel and multi-vendor PTZ control (RS 232 and/or RS 422/485). Single alarm input and auxiliary output are also provided.

NETTUNO is a low-power, firmware based device which runs without an operating system to provide the ultimate in performance and reliability. Experience the difference of deterministic, real time (25/30 IPS per camera) multi-compression performance at full PAL/NTSC resolution (720 x 576 pixels / 720 x 480 pixels).

- Light and compact
- Solid state, low power design
- SD RAM recording / Network transmission buffer
- Auto-configuration wizard
- Full screen live
- Full screen playback
- Multi-vendor PTZ control
- Alarm input
- Relay output
- Firmware upgrade via the network
- Compatible with existing networks

WHY NETTUNO

NETTUNO, whether operated as standalone or combined with the powerful CIEFFE SPECTIVA® and LINEARIS™ Digital Video Management System (DVMS) platform, allows you to create extremely high performance, high quality digital CCTV networks that are both infinitely scalable and flexible. NETTUNO eliminates the need for conventional camera/PTZ control cabling - all video and audio is delivered over TCP/IP network for live viewing and recording with no interference.

When used in encoder mode, NETTUNO delivers full frame, full resolution, excellent visual quality real-time digital video and audio over TCP/IP, for seamless integration into network connected CIEFFE Digital Video Management Systems.

In decoder mode, NETTUNO is capable of receiving and decoding live or recorded video and audio over TCP/IP providing composite analogue output of Spectiva DVMS managed digital video and audio.

The programmable DSP approach provides for a flexible, future-proof solution - NETTUNO firmware is upgradeable - enabling easy support for new and improved future compression algorithms.

State-of-the-art DSP hardware based compression engine provides superior performance and high quality lip-synchronised video and audio at all times, regardless of image content. NETTUNO integrates seamlessly and transparently into any SPECTIVA and LINEARIS DVMS as a network connected camera - natively supported by CIEFFE SiteManager, CIEFFE SPECTIVA RemoteControl and VisionWEB - enabling control, configuration and operation of NETTUNO connected devices directly from any CIEFFE client.

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	ENCODER MODE	DECODER MODE
Video input	1	N/A
Loopthrought	Yes	N/A
Video output	N/A	1
Audio input	1 Stereo	N/A
Audio output	1 Stereo	1
Simultaneous encoders	4	N/A
Simultaneous decoders	N/A	1
Compression algorithm	MPEG4 Main Profile	MPEG4 Main Profile
	MPEG4 ES Raw	MPEG4 Adaptive™
	MPEG4 Adaptive™	MPEG4 ES Raw
	H.264 (MPEG-4 Part 10)	Wavelet / ENPACTA™
		H.264 (MPEG-4 Part 10)
Supported resolutions*	720x576/720x480 D1	720x576/720x480 D1
	720x288/720x240 2CIF	720x288/720x240 2CIF
	360x288/360x240 CIF	360x288/360x240 CIF
	180x144/180x120 QCIF	180x144/180x120 QCIF
Web server	Yes	Yes
Processor	DSP 720Mhz	DSP 720Mhz
Dome control	RS.485	N/A
Ethernet	10/100 Mbit	10/100 Mbit
Power over ethernet compliant	Yes	Yes
SD Slot	Yes	Yes
Power supply	12Vdc	12Vdc
Power consumption	4W	4W
Operating temperature	5 – 55 ℃	5 – 55 ℃
Relative humidity	8 – 90% non condensing	8 – 90% non condensing
Weight	0,5 Kg	0,5 Kg
Dimensions	90W x 120D x 35H mm	90W x 120D x 35H mm

RemoteView offers full live viewing and playback functions
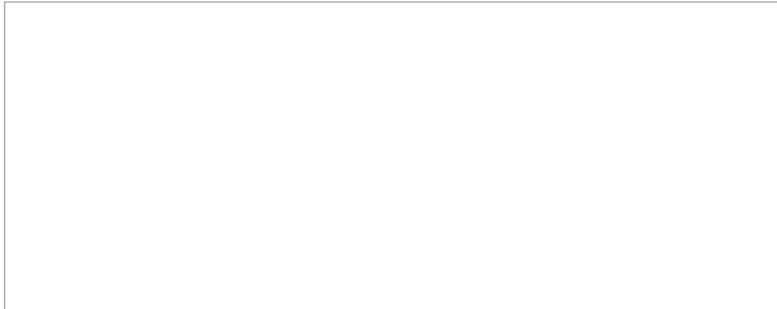
FEATURES

- Completely embedded non-PC architecture
- DSP based hardware – flexible and future proof architecture
- Power over Ethernet capable
- Native support for multiple algorithms – H.264, MPEG4, Wavelet and Enpacta™
- Multi-role – encoder (Spectiva Network Interface) or decoder (Network VAT mode)
- Exceptionally high quality of video and audio
- Encoding speed of 25/30* full resolution images per second at maximum quality and resolution
- Seamless and transparent integration into CIEFFE DVMS networks – all SPECTIVA features extend to network cameras connected via SPECTIVA Network Interface
- Seamless and transparent integration into Cieffe SiteManager as network connected analogue spot video monitor output (with audio)
- PTZ control – fully integrated multi-vendor PTZ support with minimum latency
- Powerful networkability - true client-server architecture with full remote control via TCP/IP and unlimited scalability

COMPATIBLE SOFTWARE

- RemoteControl - Full TCP/IP Client
- RemoteView - Simple TCP/IP Client Movie Viewer
- VisionWeb - Internet Explorer TCP/IP Client
- VisionPocket - Pocket PC client
- SiteManager - Full TCP/IP Multi-server Client
- Cieffe Developer Kit - API

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