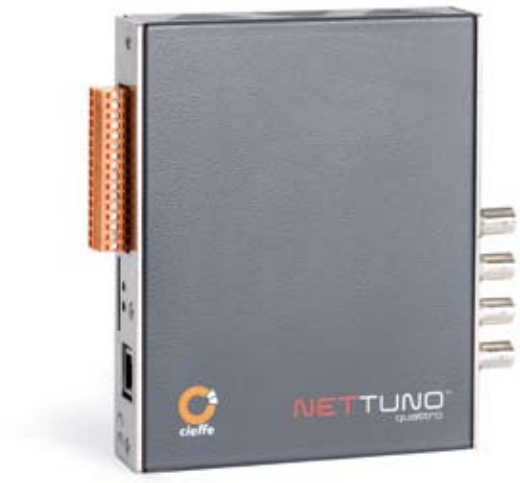
NETTUNO™ quattro



NETTUNO Quattro is a 4 video inputs network encoder with neural motion detector.
NETTUNO Quattro is capable of encoding video and audio from up to 4 analogue video/audio source in real time with H.264 (MPEG4 PART 10), the latest and most performing compression algorithm on the market. Each channel can be configured with a different encoder.

NETTUNO is a low-power device with a very small size: it can be powered through Ethernet port (Power over Ethernet compliant). Video signals are sent to the network in real time. Thanks to H.264 (MPEG4 PART 10) algorithm is possible to achieve high image quality with an extremely small bandwidth usage.
The signal can be recorded by any CIEFFE DVMS and retrieved by any remote client. NETTUNO Quattro incorporates a fully integrated single bi-directional audio channel and multi-vendor PTZ control (RS485). 4 alarm inputs and 4 auxiliary outputs are also provided.

- Light and compact
- Solid state, low power design
- SD RAM recording
- Multi-vendor PTZ control
- Alarm input
- Relay output
- Firmware upgrade via the network
- Compatible with existing networks
- Embedded Deepath2 algorithm
- CBR encoding

BEHAVIOR ANALYSIS

NETTUNO Quattro can manage motion tracking and behavior analysis thanks to CIEFFE algorithm Deepath2. Deepath2 can be seen as a group of independently working agents, collaborating and exchanging results concerning the video streams. The agent's results are inserted in a multidimensional event database. Events are then correlated by time, space, and other parameters. Temporal-spatial correlations among events can result in "smarter" alarms.

Motion alarm
It's possible to set the type of movement to detect, based on speed, direction, shape, and size of the object. Different settings are possible for multiple zone handling. The system also detects slow movements.

Overtake alarm
For detecting a vehicle overtaking another in a zone where this maneuver is not allowed or where the visibility is limited.

Bottlenecks alarm
An event is thrown when the system detects a queue caused by a sudden brake or a car accident.

Traveling the wrong way alarm
An alarm can be triggered when a vehicle is moving in the wrong direction (e.g. against the traffic flow), endangering others.

Panic alarm
Serious or dangerous situations can be marked by detecting abnormal behavior of people when they are panicking.

Excessive speed alarm
An alarm can be given by the system when the speed of a vehicle exceeds a given limit. It's possible to setup different zones with specific speed limits.

Permanence of objects and persons
An object can be detected when it stands still for a given time in a place that is being monitored for security reasons (i.e. luggage in an airport, a vehicle parked in a critical zone, or an object that has been removed from its usual placement). Alarms can be given based on the shape and size of the object.

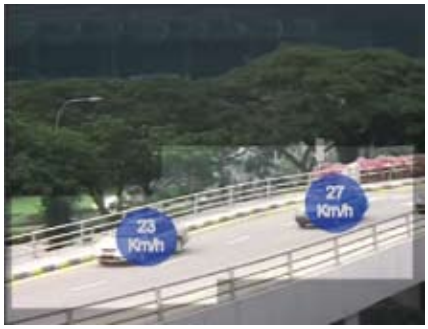
Camera occlusion alarm
An alarm can be triggered when a camera is darkened, or occluded by an object that obscures or conceal landscape details.

Tracking alarm
The system detects the path of a moving object, vehicle or person, based on shape, size, and speed. The system raises an alarm for specific paths.

Person counter
It is possible to keep track of the number of people crossing a virtual line, for statistical analysis or for gathering relevant information. It is also possible to set an alarm that goes off when a specific number of people (or people-per-hour) cross the line.

cieffe

	NETTUNO quattro
Video inputs	4
Loopthrough	No
Audio inputs	4 Stereo
Audio outputs	1 Stereo
Simultaneous Encoders	4 (1 per channel)
Compression algorithm	H.264 (MPEG4 PART 10)
Supported resolutions*	720x576/720x480 D1 720x288/720x240 2CIF 360x288/360x240 CIF 180x144/180x120 QCIF
Web server	Yes
Processor	DSP 720Mhz
Serial interface	RS485
Ethernet	10/100 Mbit
Power over Ethernet	Yes
SD Slot	Yes
Power supply	12Vdc ± 5% / POE
Power consumption	< 5W
Operating temperature	5 – 55 °C
Relative humidity	8 – 90% non condensing
Weight	0,6 Kg
Dimensions	143W x 155D x 32H mm



Behavior analysis provided by Deepath2™ algorithm

MAIN FEATURES

- Simultaneous encoding of up to 4 video inputs
- Real time Video Content Analysis with neural motion detection
- Completely embedded non-PC architecture
- DSP based hardware – flexible and future proof architecture
- Power over Ethernet compliant
- Native support for H.264 (MPEG4 PART 10) compression algorithm
- Outstanding video quality (4 inputs in real time)
- Encoding speed of 25/30 (PAL/NTSC) images per second at full resolution and maximum quality
- Seamless and transparent integration into CIEFFE SPECTIVA networks
- 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

*PAL / NTSC

3 year warranty

CIEFFE S.p.A.
Via Lavoratori Autobianchi, 1
Edificio 23
20033 Desio - Milano - ITALY
phone +39 0362 17935
fax +39 0362 1793590

www.cieffe.com
info@cieffe.com

cieffe