



Nettuno megaPX

Nettuno dome

Nettuno minidome

Nettuno CamPX

**Nettuno senses CamPX**

NETTUNO SENSES CamPX exploits the potentialities of SENSES technology ("Overall Winner" at IFSEC 2006), based on CIEFFE algorithm Deepath2™, for real time motion tracking and behaviour analysis. NETTUNO SENSES CamPX becomes a powerful motion detector, capable of generating and transmitting digital video and intelligent alarms over the network.

#### CAMERA WITH AN IP INTERFACE FOR PROFESSIONAL USES

Fitted with a revolutionary video acquisition system developed by Pixim, NETTUNO SENSES CamPX takes advantage of a 720 x 540 pixel progressive scanning sensor that eliminates interference and a dedicated DSP that runs an advanced high resolution system, capable of delivering a maximum dynamic range of 120 dB.

The MPEG4 Main Profile algorithm implemented on board offers an ultra-low noise video signal and striking detail, giving excellent quality images at full resolution (D1), while still very fluid and usable over extremely reduced bandwidths.

NETTUNO SENSES CamPX can work as a stand-alone camera, but it can also be networked with SPECTIVA and LINEARIS Digital Video Management Systems. Transmission via IP, use of the best compression algorithm, analogue video output and bi-directional stereo audio provide extremely flexible and scalable solutions for any type of CCTV installation.

#### **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 conceals 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.

**NETTUNO SENSES CamPX**

Sensor type	Wide Dynamic Range - Progressive
Sensor array size	5.04 mm (H) x 3.78 mm (V)
Image size	Diagonal 6.3 mm (Type 1/3")
No. of pixels (effective)	720 (H) x 540 (V)
Color filter array	Primary RGB
Light sensitivity	0.8 Lux at normal frame rate with an F=1.2 lens (color mode) 50 IRE
Dynamic range	105 dB typical (14 bit precision), 120 dB max
Signal to noise ratio	Greater than 48dB (F5.6 @ 2000 lux)
Slow shutter mode sensitivity	Better than 0.08 Lux
White balance	Auto tracking, manual, and preset
Backlighting compensation	Yes
AGC, Auto Iris	Yes
Video output analog	1 CVBS (75 Ohm) / 1 SVHS (PAL / NTSC selectable)
Compression algorithm	MPEG4 Main Profile
Ethernet	10/100 Mbit
Supported protocols	TCP/IP - UDP
Supported resolutions	D1, 2CIF, CIF, QCIF
Web server	Yes
Processor	Multimedia DSP
Audio in	1 Stereo input
Audio out	1 Stereo output
Power supply	12Vdc / PoE
Power Over Ethernet (PoE)	Si
Power consumption	< 5W
Operating temperature	5 - 55 °C
Relative humidity	8 - 90% non condensing
Weight	0,5 Kg
Dimensions	60W x 140D x 55H mm



Advanced behavior analysis functionalities

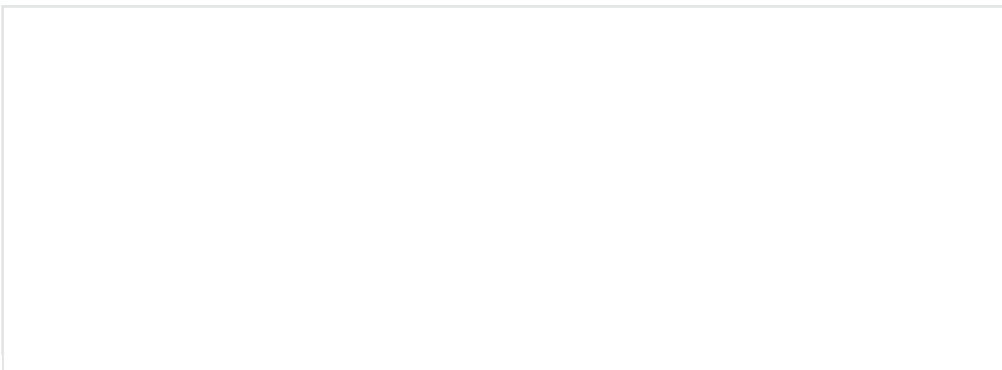
**FEATURES**

- Fully embedded architecture
- Customizable DSPs for a modular, flexible architecture
- Native support for multiple compression algorithms
- Progressive scan sensor
- Analog-to-digital converter (ADC) for each pixel
- Zero smear
- PAL/NTSC signal formats can be selected for the analog OUTPUT
- Minimal blooming
- Wide dynamic range
- White balance: auto tracking, manual, and presets
- Gamma correction options
- Electronic shutter
- Extended slow shutter
- Automatic gain control
- Backlight compensation control
- B/W mode
- Excellent video quality thanks to MPEG4 Main Profile compression
- Transmission of up to 25/30 FPS (\*) images at full resolution and maximum quality
- Seamless integration with SPECTIVA and LINEARIS DVMS networks
- Real architecture client-server with total control via TCP/IP for unlimited scalable solutions
- Integrated Web server
- Power over Ethernet compliant (PoE)

\*PAL / NTSC

3 year warranty

CIEFFE are continuously in research and development and therefore reserves the right to alter specifications and prices without notice. For precise information, please contact your CIEFFE representative. Subject to change in design and specifications. Subject to error.



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