

NETTUNO MEGADOME™

NET



Nettuno megaPX

Nettuno dome

Nettuno minidome

Nettuno megadome

Nettuno CamPX

Nettuno senses CamPX

WORLD'S FIRST MEGAPIXEL PTZ IP SPEED DOME

1st PTZ dome with Multi-megapixel resolution

1st PTZ dome with MPEG4 compression on hi-res video

HIGH DEFINITION AND PTZ 360° FAST MOVEMENT

MegaDome's main innovation lies in the fact that it makes possible to use 1600*1200 resolution combined with PTZ movement: autofocus and backlight management of images coming from a moving camera, mechanical and electrical issues, all those harsh difficulties to face when merging Megapixel resolution video with fast and accurate PTZ movement, have been settled by CIEFFE's R&D Department.

HIGH DEFINITION AND MPEG4 COMPRESSION

NETTUNO MegaDome is also the first Megapixel PTZ dome to apply MPEG4 video compression algorithm on high resolution video (it has a 1600*1200 pixels resolution – 2 Megapixels).

The outcome is that, though the dome is still delivering high quality video at a very fluid frame rate (15 fps at maximum quality and resolution), MPEG4 compression allows terrific savings in bandwidth and storage requirements: the compression of high resolution video is 10 to 20 times more effective (depending on the monitored scene) than standard Megapixel compression technologies on the market, all JPEG based.

HIGH DEFINITION AND REAL-WORLD IP INSTALLATIONS

With this Megapixel PTZ dome you can take advantage of both high resolution video (image quality and detail, vital help in post event reconstruction thanks to digital zoom) enhanced by 16x optical zoom and fast and accurate PTZ movement at the same time.

MPEG4 compression on high resolution video allows to implement NETTUNO MegaDome into real world IP installations, when there usually are many cameras connected to storage servers or to monitors over IP. In a similar situation, the overall bandwidth and storage required by JPEG compression makes the desired installation not feasible or extremely expensive.

Customers needing to perform high quality video surveillance may not always have the luxury of a Multi Gigabit connection to the network so MPEG4 Main Profile algorithm provides huge savings. The NETTUNO MegaDome allows to build high-res video surveillance IP systems in a very cost-effective way. Thanks to those systems, the video security environment will provide performance and video surveillance accuracy unmatched up to this moment.



Nettuno megadome

Sensor type	CMOS progressive scan
Sensor array size	4,73mm (H) x 3.52 mm (V)
Sensor size	Diagonal 5,7 mm (1/3,2")
	2.8 um x 2.8 um
Lens size	4,5 – 72 mm
Optical zoom	16x
Digital zoom	Unlimited, client dependent
No. of pixels (effective)	1600 (H) x 1200 (V)
Light sensitivity	0,8 Lux
Dynamic range	71 dB
Signal to noise ratio	42.3dB
White balance	Auto tracking, manual, preset
Backlighting compensation	Yes
AGC/Auto Iris	Yes
Compression Algorithms	MPEG4 MainProfile, MPEG4 ES Raw, H.264 (D1 resolution), JPEG
Supported resolutions	Configurable, max resolution 1600x1200
Ethernet port	10/100 Mbit
Supported protocols	TCP/IP (All resolutions) UDP (max in D1) - RTP/RTSP (max in D1)
Web server	Yes
Processor	Multimedia 720Mhz DSP
Presets	200
Tours	4
Rotation speed	0.1 - 400°/sec, 360° continuous rotation, absolute positioning
Variable pan speed/coverage	0.1 - 200°/sec, absolute positioning
Tilt coverage	90°
Auto homing	Goes to preset or tour after prescribed time (menu)
Power Supply	24Vac 36VA T1.5 fuse for dome
Mounting options	Wall, wall-corner, pole, soffit, false soffit
Operating temperature	-10 to 50 °C
Relative humidity	8 - 90% not condensing
Weight	0,5 Kg
Dimensions	260W x 260D x 261H mm
Certification	CE, IP 65



High quality 2 Megapixels video



16x optical zoom



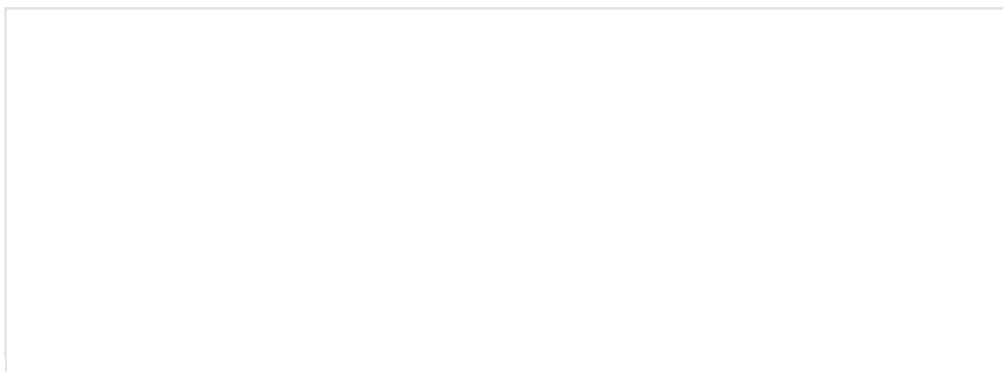
Unlimited digital zoom
for post-event reconstruction

MAIN FEATURES

- Megapixel resolution (1600*1200), outstanding image quality and detail
- MPEG4 compression on 1600*1200 resolution, bandwidth and storage huge savings
- Fast and accurate 360° PTZ movement
- Step-to-step engines featuring 400.000 different positions
- 16x Optical zoom - Unlimited Digital zoom (client-dependent)
- Multi-encoder technology
- 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
- Minimal blooming
- Wide dynamic range
- White balance: auto tracking, manual, and presets
- Gamma correction options
- Electronic shutter
- Automatic gain control
- Backlight compensation control
- B/W mode
- Excellent video quality thanks to MPEG4 Main Profile compression
- Simultaneous MPEG4 encoders: 4
- Open systems provided by RTP/RTSP protocols (PAL and NTSC resolutions)
- Transmission of 15fps video at 1600x1200
- Transmission of real time (25fps) video at 1280x960
- Real architecture client-server with total control via TCP/IP for unlimited scalable solutions
- Integrated Web server

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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