**ТЕХНИЧЕСКА СПЕЦИФИКАЦИЯ**

**Възложител:** Предприятие за управление на дейностите по опазване на околната среда (ПУДООС), с ЕИК 131045382, със седалище и адрес: гр. София, ул. „Уилям Гладстон” № 67, адрес за кореспонденция: гр. София, ул. „Триадица” № 4, представлявано от Михаела Габрашкова, в качеството й на В.И.Д. изпълнителен директор.

**Предмет на обществената поръчка „Доставка, монтаж, конфигуриране, гаранционна и извънгаранционна поддръжка на 2 броя термокамери”.**

**Условия за изпълнение на обществената поръчка:**

Термокамерите ще се доставят, монтират и конфигурират в централната сграда на ПУДООС, находяща се в гр. София, на ул. Триадица № 4 и в инсинератора за изгаряне на опасни болнични отпадъци, находящ се в гр. София, ул. „Св. Георги Софийски” № 4. Изпълнителят е длъжен да осигури гаранционна поддръжка за срок от 2 години и извънгаранционна поддръжка за срок от 3 години.

**Технически параметри на термокамерите:**

**Температура на околната среда (°C)**

-40...+60 °C (-40 ... 140 °F; Operational temperature)

Cold start at -30 °C (-22°F)

**IP Class**

IP66

**IK Class**

IK08

**Сертификати**

EMC:

* EN55032:2012
* EN55022:2010;
* EN55024:2010
* EN61000-6-1:2007;
* EN61000-6-2:2005
* EN61000-6-3:2007+A1:2011
* EN61000-6-4:2007+A1:2011
* AS/ NZS CISPR22:2009+A1:2010
* CFR47 FCC part15B)

**MTBF (h)**

80,000

**PIR**

Yes

**Audio**

Microphone/ Loudspeaker, both 16bit/16kHz (HD-Wideband-Audio)

**DVR**

* Camera-internal via microSD card
* External on USB device
* External on NAS
* Full image recording regardless of live image zoom
* MxFFS
* Pre-alarm and post-alarm images
* DVR monitoring with error notification

**Видео телеон**

Yes

**Протоколи**

IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, SMTP, DHCP (Client or Server), NTP (Client and Server), SIP (Client and Server) G.711 (PCMA and PCMU) and G.722

**Ethernet**

MxRJ45

**Сензори**

temperature measurement (only Thermal Radiometry) -40 to 550°C, temperature sensor, noise sensor, PIR (passive infrared sensor), shock sensor (with later SW update), other sensors/IO via MxMessageSystem

**Защита**

via MX-Overvoltage-Protection-Box

**Опции за монтаж**

Wall

Pole

Ceiling

**Процесор**

i.MX 6 Dual Core incl. GPU

**РАМ**

1GB

**Image Angle horizontal**

45°

**Image Angle vertical**

32°

**Max. Frame Rate**

9fps

**Max. Image Size**

6MP (3072x2048, Thermal: scalable from 336 x 252)

**Lens(es)**

* T079, T119, T237; R079, R119, R237
* B016 to B500, CSVario, CS-Objektive, LPF optional (via sensor module)

**Image Format**

Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), like 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA)

**PTZ**

Digital pan/tilt/zoom; max. zoom 8x (continious)

**Оптика на камерата**

Night

Day

Thermal

**Light Sensitivity**

* Thermal sensor: NETD typ. 50 mK, < 79 mK, IR range: 7.5 to 13.5 μm
* Color sensor (day): 0,1 lx @ 1/60s; 0,005 lx @ 1s
* BW sensor (night): 0,02 lx @ 1/60s; 0,001 lx @ 1s
* pixel pitch 0,017mm (17µm) @ 336 x 256 Pixel

**Видео кодеци**

* MxPEG+, M-JPEG, JPEG (max. output fromat 6MP)
* H.264 (max. output format QXGA; bandwith limitation possible)

**ONVIF compatibility**

compatible

**Image Sensor**

Thermal radiometry (TR): calibrated thermal sensor for temperature events from -40 to 550°C (-40 to 1022°F) • NETD typ. 50 mK, <79 mK, IR range 7.5 to 13.5 micrometer, uncooled micro bolometer, up to 9 frames per second, 336 x 252 pixels (can be scaled up to 6MP), pixel pitch 0,017mm (17µm)

1x 1/1,8“ CMOS sensor, 6MP (3072x2048), progressive scan

**Power Consumption (W)**

Typ. 9 W (short term 10 W possible)

Power consumption increases due to connected consumers:

* MxBUS max. 3 W
* USB max. 2.5 W
* total max. 4 W

**Захранване**

* PoE IEEE 802.3af
* PoE-Class 2/3 adjustable
* Factory Setting Class 3

**Status LED**

2 (Multi-Color)

**Интерфейс**

* Ethernet 100BaseT (MxRJ45)
* MiniUSB (MxMiniUSB)
* MxBus

**Signal Input**

via Accessory (MX-232-IO-Box)

**Signal Output**

via Accessory (MX-232-IO-Box)

**RJ45 Ethernet Connectors**

1

**Height Product**

210

**Width Product (mm)**

158

**Depth Product (mm)**

207

**Weight Product (g)**

1320

Software

**Camera Software (From Version)**

5.1.0.x

**Software Features**

* Multistreaming
* Multicast
* vPTZ
* Programmable exposure windows
* Single-frame capture
* Full featured recording (MxFFS Archive, continuous recording, full image recording with audio)
* Time and event controlled recording
* Weekly scheduled arming considering holy days
* Web functionality
* Logo generator
* Linked event logic
* Master/slave arming
* Several time-controlled pirivacy zones
* Custom voice messages
* VoIP phone
* Remote control
* Program interface/HTTP-API
* Secure FTP

*Изготвил*

*В.И.Д Директор Д-я „НСД“, А. Маджаров*