TrafiCam X·STREAM

TECHNICAL SPECIFICATIONS TRAFICAM X-STREAM

HARDWARE:

- **In General:**
    - o Camera & detector board integrated in compact, esthetical housing
    - o Material:
        - ▪ Housing:
            - • Aluminum, with integrated rain/sun shield (optional: additional sunshield)
            - • Window in glass
            - • Screw Connectors:
                - o BPL version: 3-pins for Broadband over Power Line (BPL)
                - o ETH version: 3-pins for power supply, 8-pins for Ethernet (4) and outputs (4)
        - ▪ Mounting Bracket: Aluminum tube; L = 25cm, Ø = 13mm
        - ▪ Mounting Piece:
            - • U-profile, L = 18cm, glass fiber reinforced polyamide
            - • Attached to mounting bracket
            - • Retaining straps or bolts to be used for fixation
    - o Mass ≈ 880 g (excl. cable)
    - o Height x Width x Depth (max. dimensions, housing + mounting bracket):
        - ▪ Vertically mounted about 45 cm x 16 cm x 12 cm
        - ▪ Horizontally mounted about 41 cm x 18 cm x 12 cm
    - o Diameter: about 12 cm
    - o Temperature Range: from -34°C to +80°C
    - o Humidity: up to 95% non-condensing

- **Camera Details:**
    - o Camera type:
        - ▪ Technology: Color CMOS
        - ▪ Sensor Size: 1/4 "
        - ▪ Resolution: 640 x 480 pixels (VGA)
        - ▪ Frame Rate: 25 FPS
    - o Lens types:
        - ▪ Wide Angle: Focal Distance 2,1mm
        - ▪ Narrow Angle: Focal Distance 6,0mm
        - ▪ ZOOM:
            - o Focal Distance: 5mm to 15mm
            - o Motorized zoom, zoom control via Traficon Configuration Tool (TCT)

- **Power Supply, Outputs & Communications:**
    - o BPL version:
        - ▪ Broadband over Power Line (BPL) for power supply, communication of output status, configuration & monitoring (streaming video) via interface
        - ▪ Input Power 20VDC via interface
        - ▪ Current Consumption < 165mA @ 24VDC (< 205mA @ 24VDC peak at start-up)
        - ▪ Power Consumption ≤ 4,0W (≤ 5W peak at start-up)
    - o ETH version:
        - ▪ Power supply separately and Ethernet for communication of output status, configuration & monitoring (streaming video), 3 optical coupled dry contacts also possible
        - ▪ Input Power 12-48VAC/DC direct
        - ▪ Current Consumption < 125mA @ 24VDC (< 165mA @ 24VDC peak at start-up)
        - ▪ Power Consumption ≤ 3,0W (≤ 4W peak at start-up)

- **Video Compression:**
    - o Type: MPEG-4
    - o Frame Rate: up to 25FPS
    - o Resolution: VGA (640x480)
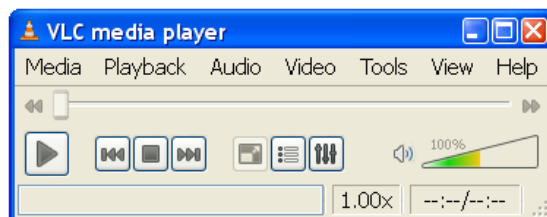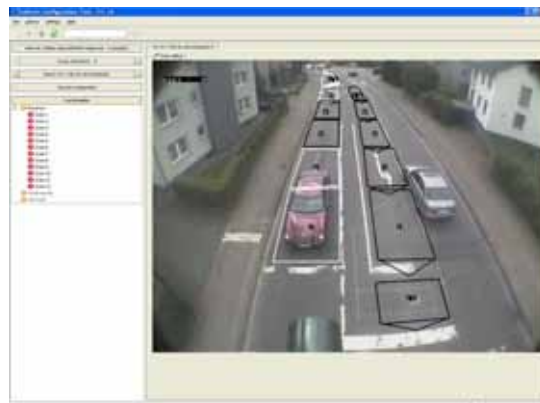   - o Quality: up to 4Mbit/s

- **IP-addressable**

REGULATORY ISSUES:

- **EMC:** Electromagnetic Compatibility - 2004/108/EG
- **FCC:** FCC Part 15 class A
- **Shock & Vibration NEMA II specs**
- **Materials:** all weatherproof (UV-resistant)
- **Protection Grades:** Housing = IP68, Connectors = IP67

SOFTWARE:

- **TCT (Traficon Configuration Tool) on PC with LAN connection:**
    - In case ZOOM lens: Zoom in, zoom out
    - Configuration via JPEG Snapshot
        - Detection Zones:
            - Max. 24 "virtual loops" per TrafiCam x-stream for vehicle presence
            - Optional: Max. 8 "virtual loops" per TrafiCam x-stream for traffic data
            - Virtual loops can be made direction sensitive
        - Output assignment:
            - Max. 16 detection outputs available per TrafiCam x-stream
            - An output can be assigned to multiple zones (logical functions: and, or)
            - Select "close on event" (= default setting) or "open on event"
            - BPL version: output generation via interface
            - ETH version: output generation direct (max. 3 outputs) and/or via TCP/IP
    - View detection via MPEG-4 streaming video

- **VLC or QuickTime Media Player on PC with LAN connection:**
    - View MPEG-4 streaming video
    - Record MPEG-4 streaming video
    - Playback MPEG-4 streaming video

CONNECTION TRAFICAM X-STREAM ZOOM BPL – INTERFACE:

- **Recommended type of cable:** power cable, signal cable or STP cable, UV resistant
- **Cable diameter*:** 4-8 mm
- **Maximum cable length**:** 300 m
- **Required number of wires: 3 (+, -, PE)**
- **Wire diameter***:**
    - Min. 0,64 mm (0,32 mm2, AWG22) for up to 120 m cable length
    - Min. 0,8 mm (0,50 mm2, AWG20) for up to 200 m cable length
    - Min. 1 mm (0,75 mm2, AWG18) for up to 300 m cable length
- **Note:** cable is not included

*   Determined by the cable gland of the connector
**   Highly depends on cable quality and local conditions, i.e. local sources of interference
***   Significant voltage drop possible. Resistance of wire may not be more than 15 ohm for DC.

CONNECTION TRAFICAM X-STREAM ZOOM ETH – POWER SUPPLY:

- **Recommended type of cable:** same as previous

CONNECTION TRAFICAM X-STREAM ZOOM ETH – PC:

- **Recommended type of cable:** Industrial CAT5e cable (SF/UTP)

Data subject to alternation without notice or obligation   *Issue: v3 09/2010*

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