

# SMAVIA & 3rd Party IP-Kameras

Tables of Tested Third-Party Supplier IP Cameras, incl. Information on Remote Configuration and Recording Options

English

Dallmeier

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### 1 Abstract

**SMAVIA Appliances** with preinstalled **SMAVIA Recording Server** software as of version 8.x.3 support receiving and recording of **video streams** from **3rd party IP cameras** over the network interface.

This function allows for the integration of any type of IP camera into a VideoIP network if the camera transmits the video stream according to the standardised industry protocol. In general, all RTSP-enabled cameras should be compatible with Dallmeier recording systems.

Observations from practice show that **manufacturer-specific modifications and deviations** from the standardised industrial protocol must be considered at times. In most cases, the resulting peculiarities of these cameras can be intercepted by enhancing the according function of a recording system. Nevertheless, in some cases a lack of compatibility must be assessed.

This document includes tables with information on the tested 3rd party IP cameras.

### 2 Range of Functions

**SMAVIA Appliances** with preinstalled **SMAVIA Recording Server** software as of **version 8.x.3** support 3rd party IP cameras with the following recording options:

#### **3rd Party IP Camera Permanent Recording**

3rd party IP cameras that are sending a **RTSP video stream** via UDP/RTP can be recorded in the *Permanent* mode.

#### **3rd Party IP Camera Recording with Motion Detection**

3rd party IP cameras that are sending a **RTSP video stream** via UDP/RTP and **JPEGs** via TCP/HTTP can be recorded in the *Motion* mode.

#### **3rd Party IP Camera Configuration**

3rd party IP cameras that support the **ONVIF protocol** can be configured directly with the user interface of SMAVIA Recording Server. The support of the ONVIF protocol is not mandatory for the recording (permanent or with Motion Detection).

#### Audio

SMAVIA Recording Server records RTSP video streams. The recording of **RTSP audio streams** is **not integrated**, because RTSP-enabled cameras usually do not support the audio streaming function.

#### 3 Updates

At the time of this document's creation, test results were available for those 3rd party IP cameras listed in the following. Please also check for possible updates on www.dallmeier.com.

#### 4 Conventions

The tables in this document contain **3rd party IP cameras** that have been **functionally tested** with SMAVIA Appliances. Note the following conventions:

The camera has **not been tested** with DMS 2400.

The camera has passed the functional test with DMS 2400 as of version 8.1.3.

The camera **has not passed** the **functional test** with DMS 2400 as of version 8.1.3. The camera's functional range is not sufficient.

| DMS 240 | 0 |
|---------|---|
|         |   |
| 8.1.3   |   |
|         |   |

### 5 Disclaimer

Despite a thorough testing of the **recording in the specified recording mode (functional test)**, the use of the complete functional range of the camera can not be assured. The functional test contains **no long-term test**, **no stability test** and **no verification of the image quality**.

In case of a **hardware or firmware change** by the manufacturer, Dallmeier cannot take **any responsibility** for the persistence of the compatibility.

#### NOTE

The compatibility of a 3rd party IP camera depends on many factors. Before actual use always put the camera through a more detailed test (long-term test, stability test, verification of image quality) !

# 6 Tested Cameras

## 6.1 ArecontVision

| Model<br>(Firmware) | Note        | ONVIF | Recording        | DMS 2400 | IPS 2400 |
|---------------------|-------------|-------|------------------|----------|----------|
| AV10115             | [2]         |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 65210)          |             |       | Motion Detection |          |          |
| AV2115              | [1] [2] [3] |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 65210)          |             |       | Motion Detection |          |          |
| AV3135              | [2]         |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 65155)          |             |       | Motion Detection |          |          |
| AV8365              | [2]         |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 65046 Beta)     |             |       | Motion Detection |          |          |
| AV5125DNv1          | [1] [2] [3] |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 65210)          |             |       | Motion Detection |          |          |
| AV3255AM            | [2]         |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 65242)          |             |       | Motion Detection |          |          |
| AV2145DN-04-D       | [1] [2] [3] |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 65213)          |             |       | Motion Detection |          |          |

### 6.2 Axis

| Model<br>(Firmware) | Note | ONVIF        | Recording        | DMS 2400   | IPS 2400   |
|---------------------|------|--------------|------------------|------------|------------|
| P3301               | [8]  | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.40.9.2)       |      | ·            | Motion Detection | 8.1.3      | 8.7.3      |
| P1354               |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.40.19)        |      | •            | Motion Detection | 8.1.3      | 8.7.3      |
| Q1602               |      |              | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.40.3.4)       |      |              | Motion Detection | 8.1.3      | 8.7.3      |
| Q1604               |      |              | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.40.3.2)       |      |              | Motion Detection | 8.1.3      | 8.7.3      |
| Q1614               |      | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (V. 5.55.1)         |      |              | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |
| P7214               |      |              | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.40.6)         |      |              | Motion Detection | 8.1.3      | 8.7.3      |
| P1343               |      |              | Permanent        | 8.1.3      | 8.7.3      |
| (5.40.9.5)          |      |              | Motion Detection | 8.1.3      | 8.7.3      |
| 207                 |      |              | Permanent        | 8.1.3      | 8.7.3      |
| (V. 4.40.3)         |      |              | Motion Detection |            |            |
| P5534               |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.40.9.3)       |      | -            | Motion Detection |            |            |
| M3007               |      |              | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.40.13.1)      |      |              | Motion Detection | 8.1.3      | 8.7.3      |

### 6.3 Basler

| Model<br>(Firmware)          | Note | ONVIF        | Recording        | DMS 2400 | IPS 2400 |
|------------------------------|------|--------------|------------------|----------|----------|
| BIP2-1600c-dn<br>(V. 3.11.1) |      | $\checkmark$ | Permanent        | 8.1.3    | 8.7.3    |
|                              |      |              | Motion Detection | 8.1.3    | 8.7.3    |
| BIP2-2500c-dn<br>(V. 3.11.1) |      | $\checkmark$ | Permanent        | 8.1.3    | 8.7.3    |
|                              |      |              | Motion Detection | 8.1.3    | 8.7.3    |

### 6.4 Bosch

| Model<br>(Firmware) | Note | ONVIF        | Recording        | DMS 2400   | IPS 2400   |
|---------------------|------|--------------|------------------|------------|------------|
| VG5-713-CCE2        | [5]  |              | Permanent        | 8.1.3      | 8.7.3      |
| (5.70)              |      |              | Motion Detection | 8.1.3      | 8.7.3      |
| NWC-0495-10P        |      |              | Permanent        | 8.1.3      | 8.7.3      |
| (4.10)              |      |              | Motion Detection | 8.1.3      | 8.7.3      |
| NTC-255-PI          | F    | Permanent    | 8.1.3            | 8.7.3      |            |
| (5.70)              |      | •            | Motion Detection | 8.1.3      | 8.7.3      |
| NDC455P             |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (5.70)              |      | •            | Motion Detection | 8.1.3      | 8.7.3      |
| NDC-284             |      |              | Permanent        | 8.1.3      | 8.7.3      |
| (5.70)              |      |              | Motion Detection |            |            |
| Dinion NBN-498-P    |      | $\checkmark$ | Permanent        | 8.1.8 SP D | 8.7.8 SP D |
| (5.73)              |      | •            | Motion Detection | 8.1.8 SP D | 8.7.8 SP D |

### 6.5 Canon

| Model<br>(Firmware) | Note | ONVIF        | Recording        | DMS 2400 | IPS 2400 |
|---------------------|------|--------------|------------------|----------|----------|
| VB-M40              |      | $\checkmark$ | Permanent        | 8.1.3    | 8.7.3    |
| (V. 1.0.3)          |      |              | Motion Detection | 8.1.3    | 8.7.3    |

### 6.6 Eneo

| Model<br>(Firmware) | Note | ONVIF        | Recording        | DMS 2400 | IPS 2400 |
|---------------------|------|--------------|------------------|----------|----------|
| 2018PTZ1080         | [7]  | $\checkmark$ | Permanent        | 8.1.3    | 8.7.3    |
| (rv20130515N)       |      |              | Motion Detection | 8.1.3    | 8.7.3    |

# 6.7 Dynacolor

| Model<br>(Firmware)          | Note | ONVIF        | Recording        | DMS 2400 | IPS 2400 |
|------------------------------|------|--------------|------------------|----------|----------|
| M05D-2E11<br>(z120130504NSA) |      | $\checkmark$ | Permanent        | 8.1.3    | 8.7.3    |
|                              |      | V            | Motion Detection | 8.1.3    | 8.7.3    |

### 6.8 Ganz

| Model<br>(Firmware)            | Note | ONVIF        | Recording        | DMS 2400   | IPS 2400   |
|--------------------------------|------|--------------|------------------|------------|------------|
| ZN-M2AF<br>(ZN2C0.2.1082.32)   |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
|                                |      |              | Motion Detection |            |            |
| ZN-DN332XE-MPD<br>(V. 1.6.0.6) |      | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
|                                |      |              | Motion Detection |            |            |

### 6.9 Hikvision

| Model<br>(Firmware) | Note | ONVIF            | Recording        | DMS 2400   | IPS 2400   |
|---------------------|------|------------------|------------------|------------|------------|
| DS-2CD7153-E        |      |                  | Permanent        | 8.1.3      | 8.7.3      |
| (V. 3.0 110516)     |      |                  | Motion Detection |            |            |
| DS-2CD753F-E        |      |                  | Permanent        | 8.1.3      | 8.7.3      |
| (V. 4.1.0           |      |                  | Motion Detection |            |            |
| DS-2CD753F-EI       |      |                  | Permanent        | 8.1.3      | 8.7.3      |
| (V. 4.0.3)          |      |                  | Motion Detection |            |            |
| DS-2CD862F-E        |      | $\checkmark$     | Permanent        | 8.1.3      | 8.7.3      |
| (V. 4.0.3 120821)   |      | •                | Motion Detection |            |            |
| DS-6716-HFI         |      | $\checkmark$     | Permanent        | 8.1.5      | 8.7.5      |
| (V 1.1.0)           |      |                  | Motion Detection | 8.1.5      | 8.7.5      |
| DS-6704-HFI         |      | $\checkmark$     | Permanent        | 8.1.5      | 8.7.5      |
|                     |      |                  | Motion Detection | 8.1.5      | 8.7.5      |
| DS-2CD2032-I        |      | $\checkmark$     | Permanent        | 8.1.3      | 8.7.3      |
| ()                  |      | •                | Motion Detection |            |            |
| DS-2CD2112-I        |      | $\checkmark$     | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.0.0)          |      | •                | Motion Detection |            |            |
| DS-2CD733F-E        |      | $\checkmark$     | Permanent        | 8.1.3      | 8.7.3      |
| (V. 5.1.0)          |      | •                | Motion Detection |            |            |
| DS-2DF5274-A        | [7]  | $\checkmark$     | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (V. 5.1.0)          | •    | Motion Detection | 8.1.5 SP B       | 8.7.5 SP B |            |
| DS-2DF8223I-AEL(W)  |      | $\checkmark$     | Permanent        | 8.1.8 SP B | 8.7.8 SP B |
| (V. 5.3.0)          |      | •                | Motion Detection |            |            |

# 6.10 IndigoVision

| Model<br>(Firmware) | Note | ONVIF    | Recording        | DMS 2400 | IPS 2400 |
|---------------------|------|----------|------------------|----------|----------|
| BX400               |      | <b>√</b> | Permanent        | 8.1.3    | 8.7.3    |
| (3.0.0.3)           | •    | -        | Motion Detection | 8.1.3    | 8.7.3    |

### 6.11 JVC

| Model<br>(Firmware) | Note | ONVIF        | Recording        | DMS 2400   | IPS 2400   |
|---------------------|------|--------------|------------------|------------|------------|
| VN-H37U             | [7]  | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (4.04.103)          |      | •            | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |
| VN-H57U(A)          | [7]  | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (6.01.004)          |      | •            | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |
| VN-H657BU           | [7]  | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (SPL2889 4.00.855)  |      | •            | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |
| VN-H557U            | [7]  | 7]           | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (1.00.524 SPL2971)  |      | •            | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |
| VN-T16U             | [7]  | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (j.2.2.2232)        |      | •            | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |
| VN-T216VPRU         | [7]  | $\checkmark$ | Permanent        | 8.1.8 SP B | 8.7.8 SP B |
| (j.2.2.2541)        |      | v            | Motion Detection | 8.1.8 SP B | 8.7.8 SP B |

### 6.12 LG

| Model<br>(Firmware) | Note         | ONVIF | Recording        | DMS 2400 | IPS 2400 |
|---------------------|--------------|-------|------------------|----------|----------|
| LNV7210R            | $\checkmark$ |       | Permanent        | 8.1.8    | 8.7.8    |
| ()                  |              |       | Motion Detection |          |          |

### 6.13 Oncam

| Model<br>(Firmware)     | Note | ONVIF        | Recording        | DMS 2400   | IPS 2400   |
|-------------------------|------|--------------|------------------|------------|------------|
| EVO-05NID<br>(V. 1.4.7) |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
|                         |      | •            | Motion Detection | 8.1.3      | 8.7.3      |
| EVO-05NJD<br>(1.4.12)   |      | $\checkmark$ | Permanent        | 8.1.8 SP B | 8.7.8 SP B |
|                         |      |              | Motion Detection | 8.1.8 SP B | 8.7.8 SP B |

### 6.14 Panasonic

| Model<br>(Firmware) | Note | ONVIF        | Recording        | DMS 2400   | IPS 2400   |
|---------------------|------|--------------|------------------|------------|------------|
| WV-SP305E           |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (1.80)              |      | •            | Motion Detection | 8.1.3      | 8.7.3      |
| WV-SF438<br>(1.52)  | [9]  | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
|                     |      |              | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |
| WV-SF458<br>(1.61)  | [9]  | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
|                     |      |              | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |
| WV-SW559E<br>(1.31) |      | $\checkmark$ | Permanent        | 8.1.6 SP B | 8.7.6 SP B |
|                     |      | v            | Motion Detection | 8.1.6 SP B | 8.7.6 SP B |

### 6.15 Pelco

| Model<br>(Firmware)          | Note    | ONVIF | Recording        | DMS 2400 | IPS 2400 |
|------------------------------|---------|-------|------------------|----------|----------|
| Sarix IM10LW10-1             | [4]     |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 1.8.1-20110912-1)        |         |       | Motion Detection | 8.1.3    | 8.7.3    |
| Sarix IMS0C10<br>(V. 1.7.41) | [4]     |       | Permanent        | 8.1.3    | 8.7.3    |
|                              |         |       | Motion Detection |          |          |
| Sarix IMS0DN10-1E            | [4]     |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 1.7.41)                  |         |       | Motion Detection |          |          |
| Spectra S5118-FW0            | [4] [5] |       | Permanent        | 8.1.3    | 8.7.3    |
| (V. 1.7.41)                  |         |       | Motion Detection |          |          |
| Sarix IXS0C                  |         |       | Permanent        | 8.1.3    | 8.7.3    |
| (1.8.2.18)                   |         |       | Motion Detection | 8.1.3    | 8.7.3    |

# 6.16 Samsung

| Model<br>(Firmware) | Note | ONVIF        | Recording        | DMS 2400   | IPS 2400   |
|---------------------|------|--------------|------------------|------------|------------|
| SNP-6200            |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (1.02_130108)       |      | •            | Motion Detection |            |            |
| SND-7082            |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (1.00_120824)       |      |              | Motion Detection |            |            |
| SND-6084            |      | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (1.00_130412)       |      |              | Motion Detection |            |            |
| SND-6201P           |      | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (1.01_131002)       |      | •            | Motion Detection |            |            |

# 6.17 Sanyo

| Model<br>(Firmware)       | Note | ONVIF | Recording        | DMS 2400 | IPS 2400 |
|---------------------------|------|-------|------------------|----------|----------|
| VCC-HD2300P               |      |       | Permanent        | 8.1.3    | 8.7.3    |
| (62240245G)               |      |       | Motion Detection |          |          |
| VCC-HD2500P<br>(02.02-02) |      |       | Permanent        | 8.1.3    | 8.7.3    |
|                           |      |       | Motion Detection |          |          |
| VCC-HD4600P               |      |       | Permanent        | 8.1.3    | 8.7.3    |
| (49370235)                |      |       | Motion Detection |          |          |

# 6.18 Sony

| Model<br>(Firmware) | Note    | ONVIF        | Recording        | DMS 2400   | IPS 2400   |
|---------------------|---------|--------------|------------------|------------|------------|
| SNC-RH124           | [5] [8] | $\checkmark$ | Permanent        | 8.1.3      | 8.7.3      |
| (1.79)              |         | •            | Motion Detection | 8.1.3      | 8.7.3      |
| SNC-CH180<br>(1.79) |         |              | Permanent        | 8.1.3      | 8.7.3      |
|                     |         |              | Motion Detection | 8.1.3      | 8.7.3      |
| SNC-VB600           |         |              | Permanent        | 8.1.3      | 8.7.3      |
| (1.51)              |         |              | Motion Detection | 8.1.3      | 8.7.3      |
| SNC-ER580           | [8]     | $\checkmark$ | Permanent        | 8.1.5 SP B | 8.7.5 SP B |
| (1.82.01)           |         |              | Motion Detection | 8.1.5 SP B | 8.7.5 SP B |

### 7 Requirements

The following minimum requirements must be fulfilled by 3rd party IP cameras if they are to be recorded with SMAVIA appliances.

Note that

- the audio stream is not recorded.
- the calculations for the recording mode *Motion Detection* are made on the appliance. A corresponding function of the IP camera is not used.

#### 7.1 Relevant Appliances

Currently suitable 3rd party IP cameras can be recorded with the following SMAVIA appliances:

- DMS 2400 as of version 8.1.3
- IPS 2400 as of version 8.7.3
- VideoNetBox II as of version 8.11.6

#### 7.2 Relevant Protocols

Currently we can communicate with appropriate 3rd party IP cameras via the following protocols:

- RTSP
- ONVIF 1.02
- ONVIF Profile S 2.1
- HTTP

#### 7.3 Requirements

#### 7.3.1 General

While recording a 3rd party IP camera date and time are written to the recording track. For this purpose, the time stamp sent by the IP camera with the RTSP stream is used.

- The camera must synchronize the internal time via a UTC time server (NTP).
- The camera and the SAMVIA Appliance must use the same time server.
- The camera can use every SMAVIA Appliance directly as time server (no external server required).

#### 7.3.2 Permanent Recording via RTSP

- The RTSP standard must be met.
- The GOP size must be less than 30 frames per GOP.
- The frame rate must be at least 5 frames per second (fps).
- The video stream must be encoded in MPEG4 or H.264.
- The data rate (Mbps) and the GOP size (frames per GOP) must be constant.
- The video streams must be transmitted with RTP over UDP.

#### 7.3.3 Recording with Motion Detection via RTSP and HTTP

The motion detection is always calculated directly on the appliance. For this purpose, a smaller single image in JPEG format must be retrieved at any time of the camera in addition to the RTSP stream with normal resolution.

- The transfer of a JPEG by an HTTP request must be supported.
- The transmission of JPEG must be at least 2 frames per second.
- The transmission of JPEG may not exceed delay of 2 seconds.
- The size of the JPEG may not exceed CIF (352x288).
- The JPEG image must contain the same detail (view) as the RTSP stream.
- If the configuration is done via the ONVIF protocol, the second encoder (JPEG) must be activated manually under certain circumstances.

#### 7.3.4 Recording via ONVIF

- The version 1.02 of the ONVIF standards must be met.
- The version 2.1 of the ONVIF Profile S standards must be met.

#### 7.4 Overview

Depending on the used 3rd party camera type and the desired recording, the above requirements must be met to 100%.

| 3rd Party Camera Type | RTSP      | RTSP             | ONVIF      | ONVIF            |
|-----------------------|-----------|------------------|------------|------------------|
| Recording             | Permanent | Motion Detection | Permanent  | Motion Detection |
| Communication         | RTSP      | RTSP/HTTP        | ONVIF/RTSP | ONVIF/RTSP/HTTP  |
| General requirements  | 100%      | 100%             | 100%       | 100%             |
| RTSP requirements     | 100%      | 100%             | 100%       | 100%             |
| HTTP requirements     |           | 100%             |            | 100%             |
| ONVIF requirements    |           |                  | 100%       | 100%             |

# 8 RTSP Addresses

| Supplier      | Model           | RTSP Address  |
|---------------|-----------------|---|
| ArecontVision | All listed      | rtsp://IP address:554/h264.sdp  |
| Axis          | All listed      | rtsp://IP address:554/axis-media/media.amp  |
| Basler        | All listed      | rtsp://IP address/h264  |
| Bosch         | All listed      | rtsp://IP address:554/  |
| Canon         | All listed      | rtsp://IP address/profile1=u  |
| Dynacolor     | All listed      | rtsp://IP address/h264  |
| Eneo          | All listed      | rtsp://IP address/h264  |
| Ganz          | ZN-M2AF         | rtsp://IP address/gnz_media/main  |
| IndigoVision  | RX400           | rtsp://IP address:554/h264  |
| JVC           | Model dependent | rtsp://ip_adx/livestream<br>rtsp://IP address:554/PSIA/Streaming/channels/0<br>rtsp://IP address/ONVIF/Streaming/channels/0<br>rtsp://ip_adx/livestream |
| Oncam         | All listed      | rtsp://ip_adx/h264/video.sdp?camera=13[=4MP] 25[=2MP] 12[=1MP] 26[=0,25MP]  |
| Panasonic     | All listed      | rtsp://IP address:554/MediaInput/h264   |
| Pelco         | Sarix IXS0C     | rtsp://IP address:554/stream1   |
| Samsung       | All listed      | rtsp://IP address:554/onvif/profile2/media.smp  |
| Sanyo         | All listed      | rtsp://IP address:554/VideoInput/1/h264/1   |
| Sony          | All listed      | rtsp://IP address:554/media/video1  |

# 9 HTTP Addresses

| Supplier     | Model      | HTTP Address  |
|--------------|------------|---|
| Axis         | All listed | http://IP address/axis-cgi/jpg/image.cgi?resolution=320x240                   |
| Bosch        | All listed | http://IP address/snap.jpg?JpegSize=M&JpegQuality=4&JpegBorder<br>=0x63967210 |
| Canon        | All listed | http://10.128.8.43:80/-wvhttp-01-/image.cgi?v=jpg:640x480&<br>cache=on        |
| Dynacolor    | All listed | http://IP address/cgi-bin/jpg/image.cgi                                       |
| Eneo         | All listed | http://IP address/cgi-bin/jpg/image.cgi                                       |
| IndigoVision | RX400      | http://IP address/cgi-bin/jpg/image.cgi                                       |
| JVC          | All listed | rtsp://IP address/PSIA/Streaming/channels/1                                   |
| Oncam        | All listed | http://ip_adx/mjpg/snapshot.cgi?camera=13[=4MP] 25[=2MP] 12[=1MP] 26[=0,25MP] |
| Panasonic    | All listed | http://IP address/cgi-bin/camera?resolution=640&page=200408302<br>03157       |
| Pelco        | All listed | http://IP address/jpeg  |
| Sony         | All listed | http://IP address/oneshotimage1   |

# 10 Consider

| No. | [Supplier]<br>Model | Comment  |
|-----|---------------------|--|
| [1] |                     | In some "exposure-modes", the camera reduces the fps from 12 to 2 at night, while maintaining an invariable GOP size (length:15) and consistent data rate (6 Mbit/s). Consequently, the GOP data size severely increases at night (from 6 Mbit to 36 Mbit). The results are, much larger I-frames and, with the determined RTSP over UDP transmission from camera to recorder, errors within the I-frame which cause a whole GOP (6 sec) to become useless (or also two consecutive GOPs) and, thus, trigger a camera failure. |
| [2] |                     | The cameras are set to a GOP size of 51 when delivered. However, the GOP size can not be adjusted over the web interface of the camera! Therefore, the cameras are not suitable initially, since a GOP size of <= 30 is required.  |
| [3] |                     | With 2 fps and a high data rate the cameras produce a very large I-frame at night which, then, is transmitted over the interface within a very short time interval. On average, the camera reaches 6 Mbit/s (equals 6 Kbit/ms), yet, a peak of more than 600 Kbit/ms in created in the first couple of milliseconds. If two cameras are connected, the load causes a bottleneck and therefore leads to packet losses, even with a 1000 MBit LAN interface.   |
| [4] |                     | The camera only works in H.264 mode.   |
| [5] |                     | Dome camera: control only via the user interface (web browser) of the IP camera.   |
| [6] |                     | The camera has not been explicitly tested by Dallmeier electronic. Based on the feedback from customers / partners a successful functional test is assumed.  |
| [7] |                     | Motion detection is supported when the camera is configured via ONVIF.<br>Set the Dallmeier profile.   |
| [8] |                     | Motion detection is supported when the camera is not configured via ONVIF.   |
| [9] |                     | Important for Motion Detection:<br>The JPEG stream from the camera has to be set to 320x180 (camera webconfig).<br>The HTTP string is not transmitted correctly to the recorder.<br>The string has to be changed manually to the following string:<br>http://10.2.107.135/cgi-bin/camera?resolution=180  |



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