

Camera Series 4510, 4910 & 4920

System requirements and data rates

English

1 Abstract

The cameras of the 4510, 4910 and 4920 series are equipped with three encoders. They enable sending three diverse encoded streams to three divers receivers. The configuration of the encoders is subject to technically determined restrictions. This document gives an overview on the available streams and settings.

Note that

- *the recorders always record the stream of encoder 1.*
- *every recorder can overwrite the encoder settings of the camera.*
- *the cameras can be recorded in the **Motion** recording mode by Dallmeier recorders.*
- *the configuration options of the camera are limited, if it is recorded in the **Motion** recording mode (only Encoder 1 with H.264 up to 6MBit, Encoder 2 and 3 deactivated).*

2 Validity

This document applies to the following HD cameras. It has been created on basis of the software version 6.1.2.9.

- DF4510HD
- DDF4510HDV
- DF4910HD
- DDF4910HDV
- DF4910HD-DN
- DDF4910HDV-DN
- DF4910HD-DN/IR
- DF4920HD-DN
- DDF4920HDV-DN
- DF4920HD-DN/IR

3 Requirements

The cameras of the 4510, 4910 and 4920 series can be operated in the current development statue with the following hard- and software.

- Dallmeier Live Video ActiveX as of version 1.2.2.24
- PView 7 as of version 7.0.2
- SMAVIA Viewing Client as of version 1.0.0.7
- DMS, VNS and VNB recorders as of version 7.1.4
- DMX recorders as of version 7.3.5
- SeMSy® III

4 Conventions

The following conventions are valid for all tables.

Term	Resolution	Term	Resolution
720p	1280 × 720	D1	720 × 480
1080p	1920 × 1080	VGA1	640 × 480
2MP	1600 × 1200	VGA2	640 × 352
3MP	2048 × 1536	QCIF	192 × 128
4MP	2336 × 1744		
5MP	2592 × 1920		

5 Settings

5.1 Series 4510

The following table shows the number of available streams (depending on the combination of resolution and frame rate) when **encoder 1** is set to **MJPEG**.

Note that the data rate also depends on the recorded scene. The values represent an approximation.

	2 MP	720p	D1
25 fps	2	2	>4
12.5 fps	2	2	>4
6.25 fps	3	>4	>4
3 fps	--	--	--
1 fps	--	--	--

The following table shows the number of available streams (depending on the combination of bit rate and frame rate) when **encoder 1** is set to **H.264**.

Note that the values in the table are just a recommendation.

	<3 MBit	3 -4 MBit	4 -6 MBit	6 -10 MBit
25 fps	5	4	3	2
12.5 fps	5	4	3	2
6.25 fps	5	4	3	2
3 fps	5	4	3	2
1 fps	5	4	3	2

5.2 Series 4910 & 4920

The following table shows the number of available streams (depending on the combination of resolution and frame rate) when **encoder 1** is set to **MJPEG**.

Note that the data rate also depends on the recorded scene. The values represent an approximation.

	5 MP	3 MP	2 MP	1080p	720p	D1
25 fps	--	--	2	2	2	>4
12.5 fps	--	2	2	2	2	>4
6.25 fps	--	2	3	3	>4	>4
3 fps	--	3	--	--	--	--
1 fps	--	3	--	--	--	--

The following table shows the number of available streams (depending on the combination of bit rate and frame rate) when **encoder 1** is set to **H.264**.

Note that the values in the table are just a recommendation.

	<3 MBit	3 -4 MBit	4 -6 MBit	6 -10 MBit
25 fps	5	4	3	2
12.5 fps	5	4	3	2
6.25 fps	5	4	3	2
3 fps	5	4	3	2
1 fps	5	4	3	2

5.3 Settings

The following table gives an overview on various combinations of the settings for the use of one, two or three encoders.

*When the **Noise Filter** is activated, only encoder 1 is available.*

Encoder 1	Encoder 2	Encoder 3
H264, 5 MP, 10 fps	--	--
H264, 5 MP, 10 fps	MJPEG/H264, VGA1, 5 fps	--
H264, 5 MP, 6.25 fps	MJPEG/H264, VGA1, 3 fps	--
H264, 4 MP, 12.5 fps	--	--
H264, 4 MP, 10 fps	H264, 4 MP, 1 fps	--
H264, 4 MP, 6.25 fps	H264, 4 MP, 1 fps	--
H264, 4 MP, 10 fps	MJPEG/H264, VGA1, 5 fps	--
H264, 4 MP, 6.25 fps	MJPEG/H264, VGA1, 3 fps	--
H264, 3 MP, 15 fps	MJPEG/H264, VGA1, 15 fps	--
H264, 2 MP, 30 fps	--	--
H264, 2 MP, 25 fps	MJPEG/H264, VGA1, 12.5 fps	--
H264, 1080p, 30 fps	--	--
H264, 1080p, 25 fps	MJPEG/H264, VGA2, 12.5 fps	--
H264, 720p, 30 fps	MJPEG/H264, VGA2, 30 fps	--
H264, 720p, 30 fps	MJPEG/H264, VGA2, 15 fps	H264, QCIF, 15 fps
H264, D1, 30 fps	MJPEG/H264, D1, 30 fps	--
MJPEG, 3 MP, 15 fps	--	--
MJPEG, 2 MP, 30 fps	--	--
MJPEG, 1080p, 30 fps	--	--
MJPEG, 720p, 30 fps	--	--
MJPEG, D1, 30 fps	--	--

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