# GEUTEBRÜCK

# Cam Check User Manual Version: 1.0

11.01.2024

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# **About This Documentation**

Current software version: Cam Check 1.0.

The latest features and changes of the current software version are listed in the Release Notes.

i Note that the illustrations in this documentation may not match those of your software version.

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# **Function Overview**

The Cam Check offers manual as well as automatic functions for comparing reference images with the current live images of a media channel. For this purpose, it has a web interface with individual configuration options.

## Web Interface

The Cam Check web interface **Cam Check UI** has two user interfaces, Administration and Operations.

In the Administration User Interface, you can do the following:

- Configure sites, recorders and channels
- Configuration of an automated image comparison based on recorders
- Configuration of a scheduled report

In the **Operations User Interface** you can do the following:

- Control the status of channels
- Perform a manual image comparison
- Create reports manually

## **Image Comparison**

The image comparison of reference and live image can be performed manually or automatically with the Cam Check.

### Manual Image Comparison

In the **Operations** user interface, you can perform a manual image comparison between the reference image and the live image of a media channel. In the manual check dialog of the respective channel (see **Manual Channel Check**), the reference and live image as well as further information of the channel are displayed so that you can check the channel manually at any time.

### Automatic Image Comparison

In the Administration user interface, you can configure an automatic image comparison between the reference image and the live image of a media channel based on a recorder. To do this, you can define a check interval for this recorder in the Manage Recorders view. The channels of the respective recorder are then automatically checked at the specified interval and the results are saved in the database.

## **Report Generation**

The reporting of an executed image comparison can be performed manually or automatically.

### **Manual Report Generation**

In the **Operations** user interface, you can configure and create the report manually (see **Reports**).

### **Automatic Report Generation**

In the **Administration** user interface, you can configure the schedule for automatic report creation. In the **Manage Scheduled Report** view, you can set at what time, interval, and format the report should be automatically generated in the back-ground. Cam Check then automatically performs an image comparison of the reference and live images for all channels based on the configured schedule and saves the report in the local installation directory.

# User Menu

To open the user menu, click 🙍 in the upper right corner of the **Operations** or

Administration user interface. The user menu opens.

Channels       Q Search       C Dark Theme         State       Name       Site       Recorder       Image: Switch Lang         Image: One of the content o	GE	UTEBRUCK	Operations			<b>:</b>	
State       Name       Site       Recorder       Switch Lang         Image: CH 001 - 1280 x 960 (AD)       Site NRW       Recorder Bonn       Administration         Image: CH 003 SYNC TEST       Site NRW       Recorder Bonn       Administration         Image: CH 006 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn       Image: CH 007 - 1600 x 1200 (VMX)         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn       Image: CH 007 - 1600 x 1200 (VMX)         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn       Image: CH 007 - 1600 x 1200 (VMX)         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn       Image: CH 007 - 1600 x 1200 (VMX)         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn       Image: CH 007 - 1600 x 1200 (VMX)         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn       Image: CH 007 - 1600 x 1200 (VMX)         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn       Image: CH 007 - 1600 x 1200 (VMX)         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn       Image: CH 007 - 1600 x 1200 (VMX)	=<	Channels	۹ Search	_		C Dark Theme	I
Image: CH 001 - 1280 x 960 (AD)       Site NRW       Recorder Bonn         Image: CH 003 SYNC TEST       Site NRW       Recorder Bonn         Image: CH 006 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn         Image: CH 007 - 1600 x 1200 (VMX)       Site NRW       Recorder Bonn		State	Name	Site	Recorder	Generation Switch Language 🕨	I
O         CH 003 SYNC TEST         Site NRW         Recorder Bonn           O         CH 006 - 1600 x 1200 (VMX)         Site NRW         Recorder Bonn           O         CH 007 - 1600 x 1200 (VMX)         Site NRW         Recorder Bonn           O         CH 007 - 1600 x 1200 (VMX)         Site NRW         Recorder Bonn           O         CH 011 - 1920 x 1088 (VMD)         Site NRW         Recorder Bonn		?	CH 001 - 1280 × 960 (AD)	Site NRW	Recorder Bonn	Administration	
Image: CH 006 - 1600 x 1200 (VMX)         Site NRW         Recorder Bonn           Image: CH 007 - 1600 x 1200 (VMX)         Site NRW         Recorder Bonn           Image: CH 011 - 1920 x 1088 (VMD)         Site NRW         Recorder Bonn           Image: CH 011 - 1920 x 1088 (VMD)         Site NRW         Recorder Bonn           Image: CH 012 - 1920 x 1088 (VMD)         Site NRW         Recorder Bonn		0	CH 003 SYNC TEST	Site NRW	Recorder Bonn		Ī
Image: CH 007 - 1600 x 1200 (VMX)         Site NRW         Recorder Bonn           Image: CH 011 - 1920 x 1088 (VMD)         Site NRW         Recorder Bonn           Image: CH 012 - 1920 x 1088 (VMD)         Site NRW         Recorder Bonn		0	CH 006 - 1600 x 1200 (VMX)	Site NRW	Recorder Bonn		
O         CH 011 - 1920 x 1088 (VMD)         Site NRW         Recorder Bonn           O         CH 012 - 1920 x 1088 (VMD)         Site NRW         Recorder Bonn		?	CH 007 - 1600 × 1200 (VMX)	Site NRW	Recorder Bonn		
() CH 012, 1920 × 1098 (VMD) Site NDW Decerder Been		$\bigotimes$	CH 011 - 1920 x 1088 (VMD)	Site NRW	Recorder Bonn		
CH 0(2 - 1520 × 1006 (VMD)) 310 NRW Recorder Bolini		0	CH 012 - 1920 x 1088 (VMD)	Site NRW	Recorder Bonn	×	
Items per Page 10					Items per Page 10	▼ 1-6 of 6 < >	

The user menu contains the following options:

Option	Description
Dark Theme Light Theme	Change the design of the user interface.
Switch Lan- guage	Change the language of the user interface.
Admin- istration	Switch between the <b>Administration</b> and <b>Operation</b> user interfaces.

# Installation

## System Requirements

The following system components are required for the initial installation and parametrization of the Cam Check:

System Com- ponent	Requirement
G-Core Server	<ul> <li>G-Core Version 7.0</li> <li>G-Core Web API</li> <li>Operating system Windows 10 &amp; Windows Server 2019</li> </ul>
Cam Check Server	<ul> <li>Redistributable C++ 2017 x64 (<u>https://aka.m</u>-<u>s/vs/17/release/vc_redist.x64.exe</u>)</li> <li>Microsoft .NET Framework 6</li> <li>Operating system Windows 10 &amp; Windows Server 2019</li> <li>Latest version of the Chrome browser</li> </ul>
Cam Check Client	Latest version of the Chrome browser

## **Server Installation**

First install the local Cam Check server and then the Web API certificate.

1. Run the installation file GeutebrueckCamCheck\_Installer\_xxx.exe to install the Cam Check server. You can install the Cam Check server on a dedicated machine, a G-Core server, or an G-SIM server.

# i Note the system requirements for G-Core and the Cam Check server.

2. Install the Web API certificate on the Cam Check server.

- a. Select the certificate to be used by the G-Core Web API.
- b. Start the installation of the certificate by double-clicking it.
- c. Select Local Machine as the Store Location.
- d. Select Personal or Trusted Root Certification Authorities as the Certificate store.
- e. Go to the folder C:\Program Files\Geutebrueck-\GeutebrueckCamCheck and open the file appsettings.json.
- 3. Enter the certificate information there:

```
"GCoreWebApiCertStore": {
  "IgnoreIPAddress": true,
  "Certificate": {
    "Subject": "CN=certname, C=Germany, S=Rhineland-Palatinate,
    O=Geutebrueck Gmbh, OU=Technology, STREET=Im Nassen 7-9,
    SN=1.0",
    // "Thumbprint" : "1234",
    "Location": "LocalMachine",
    "Store": "My", //"This value can also be Root"
    "AllowInvalid": true
  }
}
```

- To determine the certificate information to be specified in the **"Subject"** line, do the following:
  - 1. Go to the location of the certificate on the local machine.
  - 2. Find and open the installed certificate.
  - 3. Open the **Details** tab and select the **Issuer** field.
  - 4. The certificate information is displayed in the text box.

#### i The format of the certificate information must remain unchanged and conform to the format defaults shown in the example: One line separated by comma and no spaces between the letters and the equal sign.

Alternatively, the thumbprint can be used instead of the subject. To do this, replace "Subject" with "Thumbprint". The value to be specified is the thumbprint of the certificate, which you determine as follows:
1. Go to the location of the certificate on the local machine.
2. Find and open the installed certificate.

- 3. Open the **Details** tab and select the **Thumbprint** field.
- 4. The thumbprint of the certificate is displayed in the text box.
- 4. Restart the Cam Check to continue with the configuration in the web interface.

## **Client Installation**

Install the certificate for the Cam Check authentication on the clients on which the Cam Check is to be used.

# i The Cam Check client requires the latest version of the Chrome browser.

- After installing the Web API certificate, find the certificate to be used for the Cam Check authentication of the user on the Cam Check server in the folder C:\Program Files\Geutebrueck\GeutebrueckCamCheck\cameracheckchild-cert.
- 2. Copy the certificate file child-cameracheck-child-cert.pfx to be able to move the certificate to the respective client computers.
- 3. Install the copied certificate file with a double click on the client that is to be used for the Cam Check.
- 4. The Certificate Import Wizard opens.
- 5. Select Current User as Store Location and click Next.

🔶 😺 Certificate Import Wizard	×
Welcome to the Certificate Import Wizard	
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.	
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.	
Store Location	
Current User	
O Local Machine	
To continue, click Next.	
Next Canc	el

6. The File to Import can remain the default value already specified. Click Next.

	×
🗧 🐉 Certificate Import Wizard	
File to Import	
Specify the file you want to import.	
File name:	
an check can check onigebong child-caneracheck onio-cert.prx	
Note: More than one certificate can be stored in a single file in the following formats:	
Personal Information Exchange- PKCS #12 (.PFX,.P12)	
Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)	
Microsoft Serialized Certificate Store (.SST)	
Next Can	cel

7. Type the password for the private key. This password is noted in the file child-cameracheck-child-cert.pfx.password.txt in the folder C:\Program Files\Geutebrueck\GeutebrueckCamCheck\cameracheck-childcert.

	$\times$
🔶 😺 Certificate Import Wizard	
Private key protection	
To maintain security, the private key was protected with a password.	
Type the password for the private key.	_
Password:	
Display Password	
Import options:	
Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.	
Mark this key as exportable. This will allow you to back up or transport your keys at a later time.	
Protect private key using virtualized-based security(Non-exportable)	
☑ Include all extended properties.	
Next Cance	J

- 8. Click Next.
- 9. Select the option **Place all certificates in the following store** for the certificate store.
- 10. Select Personal as Certificate store.

		×
←	🐓 Certificate Import Wizard	
	Certificate Store	
	Certificate stores are system areas where certificates are kept.	
	Windows can automatically select a certificate store, or you can specify a location for the certificate.	
	O Automatically select the certificate store based on the type of certificate	
	Place all certificates in the following store	
	Certificate store:	
	Personal Browse	
	Next Cano	el.

- ון. Click Next.
- 12. The dialog window **Completing the Certificate Import Wizard** lists your specified settings. Click **Finish**, to complete the installation.

Ŷ	Certificate Import Wizard			×
	Completing the C	ertificate Import Wi	izard	
	The certificate will be import	ed after you click Finish.		
	You have specified the follow	wing settings:		
	Certificate Store Selected	Automatically determined by t	he wizard	
	Content	PFX		
	File Name	Discontraction and	And the first has been	
	<		>	
			<u>F</u> inish Cance	I

→ When you open the Cam Check service in the browser for the first time on the respective computer or client, a pop-up window now appears asking you to select a certificate for authentication. Select the installed certificate and confirm with **OK**. The Cam Check service then opens.

## **Open the Cam Check UI**

1. Open the CamCheck UI with the URL http://<hostname or host-ip>:<port>.

i) Cam Check requires the latest version of the Chrome browser.

2. When you open Cam Check in the browser, a pop-up window appears asking you to select a certificate for authentication.



- 3. Select the Cam Check certificate and confirm with **OK**.
  - $\rightarrow$  The Cam Check web interface opens.

i When you open the Cam Check web interface in the browser for the first time, the error message Your connection isn't private appears. Click the Advanced button and then Continue to localhost (unsafe).

i Mobile devices are currently not fully supported.

# **Administration User Interface**

In the Administration view, you can configure and manage the sites and recorders, as well as scheduled reports.

GEUTEBRUCK Administra	tion			4 主
Manage sites	Manage sites	۹ Search <mark>3</mark>		+ Add Site
Manage recorders     Manage scheduled report     2	Name	Description		
	Berlin	Groups of recorder in Berlin		:
	Cologne	Groups of recorders Cologne	e	:
	France	Groups of recorders in Franc	ce	:
	Germany	Groups of recorders in Germ	hany	:
	Site NRW	Description Site NRW		:
	Windhagen	Groups of recorder in Windh	nagen	:
			Items per Page 10 💌	1-6 of 6 < 📏
GEUTEBRUCK				

The user interface consists of the following elements:

Element	Description
1 Menu	Opens or closes the menu bar.
_`	
2 Menu Bar	The menu bar contains the following menu items:         •       Manage Sites         •       Manage Recorders         •       Manage Scheduled Report
<mark>3</mark> Search <sup>Bar</sup> <b>Q</b>	By inserting a filter term, the table list is filtered. Spaces at the beginning and end of the search term are excluded from the search. The filter is applied to each attribute of the data (name, site, recorder).

#### ADMINISTRATION USER INTERFACE

Element	Description
4 <sup>User</sup> Menu	Opens the user menu. Here you can switch to the <b>Operations</b> user interface.

## **Manage Sites**

In the **Manage sites** view all created sites are listed. You can manage the sites

here by performing various actions:

- Add a Site
- Edit a Site
- Delete a Site

GEUTEBRUCK Administ							
Manage sites	Ξ¢	Manage sites	۹ Search			+ Ac	dd Site
Manage recorders		1					_
Manage scheduled report		Name		Description			
		Berlin		Groups of recorder in Berlin			:
		Cologne		Groups of recorders Cologne			:
		France		Groups of recorders in France			:
		Germany		Groups of recorders in Germany			:
		Site NRW		Description Site NRW			:
		Windhagen		Groups of recorder in Windhagen			:
					Items per Page 10 👻 1	- 6 of 6 🛛 🔾	>
GEUTEBRUCK							

#### ADMINISTRATION USER INTERFACE

### Add a Site

1. Click + Add Site. The Add Site dialog window opens.

Add Site	
Name *	
Description	11
	Cancel Apply

- 2. Specify a unique site name.
- 3. Enter a description of the site (optional).
- 4. Click Apply.

### Edit a Site

- 2. Click Z Edit. The Edit Site dialog window opens.

Edit Site		
Name * Windhagen		
Description Groups of record	der in Windh	nagen //
	Cancel	Save

- 3. You can edit the name and the description of the site.
- 4. Click Apply.

### **Delete a Site**

- 1. Open the context menu of the respective site by clicking on  $\bullet$  .
- 2. Click The Delete Site dialog window opens.

Delete Site		
Are you sure you wa	ant to delet	e the site?
	Cancel	Delete
	Cancer	Delete

3. Confirm the dialog Are you sure you want to delete the site? with Delete.

## **Manage Recorders**

In the Manage recorders view all created recorders are listed. You can man-

age the recorders here by performing various actions:

- Add a Recorder
- Edit a Recorder
- Delete a Recorder

GEUTEBRUCK Adr	ministratio	n							
Manage sites	≕	Manage recorders	۹ Search				+ Ac	ld Reco	rder
Manage recorders		1							-
Manage scheduled report	:	Name		IP	Site	Last Conncetion			
		Recorder Bonn		10.1.2.22	Site NRW	8/30/22, 11:53 PM			:
						Items per Page 10 💌	1-1of1	<	>
GEUTEBRUCK									

## Add a Recorder

1. Click + Add Recorder. The Recorder dialog window opens.

Name *	IP Address *
Site *	▼ Username *
Check Intervall (Hours) 1	Password *
Description	Threshold: 40%

2. Enter the following information:

Name	Description
Name	Specify a unique recorder name.
Site	Select the site of the recorder.
Check inter- vall (hours)	Select a check interval for the recorder. The default value is 1. The min. value is 1 and the max. value is 168.
Description	Enter a description.
IP address	Enter the IP address or hostname of the recorder.
Username	Enter the username of the recorder.
Password	Enter the password of the recorder.
Threshold	Change the threshold value by moving the slider. The threshold is the deviation from the reference image to the live image in percent until the status of a channel changes.

- 3. Click **Next**. The recorder settings are automatically saved and the message **Recorder is updated!** appears.
- 4. The second dialog window **Channels** opens.

_	News	
-	Name	
	North Pacific hake	
<mark>✓</mark>	Haddock	
<mark>✓</mark>	Blue whiting	
<mark>✓</mark>	Chub mackerel	
	Pollock	

- 5. Select the channels to be checked by the Cam Check.
- 6. Click Save.

### **Edit a Recorder**

- 1. Open the context menu of the respective recorder by clicking on  $\$  .
- 2. Click Z Edit. The Recorder dialog window opens.

Name * Recorder Bonn		IP address * 10.1.2.22	
Site * Site NRW	-	sysadmin	
Check intervall (hours) 10		Password *	
Description Description Recorder Bonn		Threshold: 70%	

 $_{\ensuremath{\mathfrak{I}}\xspace}$  . You can edit the following information:

Name	Description
Name	Specify a unique recorder name.
Site	Select the site of the recorder.
Check intervall (hours)	Select a check interval for the recorder. The default value is 1. The min. value is 1 and the max. value is 168.
Description	Enter a description.
IP address	Enter the IP address or hostname of the recorder.
Username	Enter the username of the recorder.
Password	Enter the password of the recorder.
Threshold	Change the threshold value by moving the slider. The threshold is the deviation from the reference image to the live image in percent until the status of a channel changes.

- 4. Click Next. The recorder settings are automatically saved and the message Recorder is updated! appears.
- 5. The second dialog window Channels opens.

Recorder —		2 Channel
•	Name	
	North Pacific hake	
<mark>✓</mark>	Haddock	
<mark>✓</mark>	Blue whiting	
<mark>✓</mark>	Chub mackerel	
	Pollock	

- 6. Select the channels to be checked by the Cam Check.
- 7. Click Save.

### **Delete a Recorder**

- 1. Open the context menu of the respective recorder by clicking on  $\bullet$
- 2. Click Delete. The Delete Recorder dialog window opens.

Delete Recorder		
Are you sure you want to delete the Recorder?		
	Cancel	Delete

3. Confirm the dialog **Are you sure you want to delete the Recorder?** with **Delete**.

## **Manage Scheduled Report**

In the Canage Scheduled Report view you can configure the schedule for the

scheduled generation of a report.

You can set at which time, at which interval and in which format the report should be generated automatically in the background. The Cam Check then automatically performs an image comparison of the reference and live images for all channels, based on the configured schedule, and saves the report in the local installation directory.

GEUTEBRUCK Administ	ratio		•
Manage sites	≡	Manage scheduled report	/e
Manage recorders			
Manage scheduled report		Configuration Inactive I	
		Execution Time * Interval Time * Interval Type Report File Format PDF *	
		Execution Days * Choose Days Choose Days	
GEUTEBRUCK			

How to configure the scheduled report:

1. In the **Execution Time** field, specify the time at which the report should be generated.

# i Note that the UTC time zone is used when configuring the scheduled report.

- 2. In the **Execution Days** field, select the days of the week on which the report should be generated. Click Choose Days to select the days of the week from the drop-down menu.
- 3. In the **Interval Time** field, specify the interval value of the report. The maximum value you can set is 12, the minimum value is 1.

- 4. In the **Interval Type** drop-down menu, select the period for the interval value of the report. You can choose the period in weeks or months.
- 5. In the **Report File Format** drop-down menu, select the format in which you want to save the report. You can choose between PDF, HTML and CSV. The default value is PDF.
- 6. Enable or disable the **Include Images** slider to select whether the current live image and the reference image of the channels should be included in the report.
- 7. Enable or disable the scheduled report generation by setting the slider to **Active** or **Inactive**.
- 8. Click Save to save the settings and update the configuration.
  - If you have set the scheduled reporting to **Inactive**, the message **Configuration successfully updated and report deactivated!** appears.
  - If you have set the scheduled reporting to Active, the message Configuration successfully updated and report activated! appears.
- 9. If you have saved the configuration and enabled scheduled reporting, the Cam Check automatically performs an image comparison for all channels based on the configured schedule and saves the report in the **Reports** folder in the local installation directory C:\Program Files\Geutebrueck-\CamCheck.

# **Operations User Interface**

In the Operations view, you can control the status of the channels, perform manual image comparison, and manual reporting.

GEUTEBRUCK Operations 4					
Channels	Channels	۹ Search <mark>3</mark>			
Reports 1	State	Name	Site	Recorder	
	0	CH 001 - 1280 x 960 (AD)	Site NRW	Recorder Bonn	N
	!	CH 003 SYNC TEST	Site NRW	Recorder Bonn	
	0	CH 006 - 1600 × 1200 (VMX)	Site NRW	Recorder Bonn	
	0	CH 007 - 1600 x 1200 (VMX)	Site NRW	Recorder Bonn	
	$\otimes$	CH 011 - 1920 x 1088 (VMD)	Site NRW	Recorder Bonn	
	?	CH 012 - 1920 x 1088 (VMD)	Site NRW	Recorder Bonn	×
				Items per Page 10 👻 1 - 6 of	6 < >
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The user interface consists of the following elements:

Element	Description
1 Menu	Opens or closes the menu bar.
=<	
2 Menu Bar	The menu bar contains the following menu items:
3 Search Bar <b>Q</b>	By inserting a filter term, the table list is filtered. Spaces at the beginning and end of the search term are excluded from the search. The filter is applied to each attribute of the data (name, site, recorder).
4 User	Opens the user menu. Here you can switch to the <b>Admin-</b> istration user interface.

#### **OPERATIONS USER INTERFACE**

Element	Description
Menu 💄	

## Channels

In the **Channels** view, all channels that are checked by Cam Check are listed.

In this view you can perform a manual check of the channels by performing various actions:

- Control the Channels Status
- Manual Channel Check
  - View Current Live Image and Other Channel Information
  - Edit Reference Image of a Channel
  - Change Status of a Channel

GEUTEBRUCK Operatio	ns					
Channels	Ξ<	Channels	Q Search			
E Reports						
		State	Name	Site	Recorder	
		0	CH 001 - 1280 x 960 (AD)	Site NRW	Recorder Bonn	
		0	CH 003 SYNC TEST	Site NRW	Recorder Bonn	
		0	CH 006 - 1600 × 1200 (VMX)	Site NRW	Recorder Bonn	
		0	CH 007 - 1600 × 1200 (VMX)	Site NRW	Recorder Bonn	
		$\bigotimes$	CH 011 - 1920 × 1088 (VMD)	Site NRW	Recorder Bonn	
		0	CH 012 - 1920 x 1088 (VMD)	Site NRW	Recorder Bonn	
				Items	per Page 10 👻 1 - 6 of 6	$\langle \rangle$
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### **Control the Channels Status**

The channel list shows you the following information about the respective channels:

#### OPERATIONS USER INTERFACE

Information	Description
State	<ul> <li>Current status of the channel.</li> <li>The status of the last check performed (automatic or manual) is displayed.</li> <li>Ok - No difference between live and reference image was detected.</li> <li>O Unknown - It is not possible to perform the check of the channel (e.g. because no reference image is available or due to network problems).</li> <li>O Failure - A difference between live and reference image was detected.</li> </ul>
Name	Name of the channel.
Site	Site of the channel.
Recorder	Recorder of the channel.
	<ul> <li>Status of the reference image of the channel.</li> <li>The reference image is available.</li> <li>The reference image is missing. It is not possible to check the channel.</li> </ul>

### Manual Channel Check

Click on or of the respective channel. The manual check dialog opens.

⑦ Channel: CH 003 SYNC TEST	
Reference Image	Live Image
Site:	Site NRW
Recorder:	Recorder Bonn
Reference created at:	25/08/2022, 13:53
Man. Check Time:	
Auto. Check Time:	30/08/2022, 23:53
State:	Unknown
Comment:	
Close Refresh Data Replace	Reference Change State Delete Reference

#### View Current Live Image and Other Channel Information

The following information of the channel is displayed in the manual check dialog:

Information	Description
Reference Image	Current reference image of the channel. If no reference image is available, the placeholder <b>NO</b> <b>REFERENCE IMAGE</b> is displayed.
Live Image	Current live image of the channel.
Site	Site of the channel.
Recorder	Recorder of the channel.
Reference cre- ated at	Creation date of the reference image.

#### **OPERATIONS USER INTERFACE**

Information	Description
Man. Check Time	Date and time of the last manual check.
Auto. Check Time	Date and time of the last automatic check.
State	Current status of the channel.
Comment	Comment about the channel.

Click **Refresh Data** to update the information of the channel.

#### Edit Reference Image of a Channel

In the manual check dialog, you can perform the following actions to edit the reference image of the channel:

Action	Description
New Refer-	Click this button to create a new reference image for the chan-
ence	nel if none already exists.
Replace Reference	Click this button to replace the current reference image of the channel with a new one. The <b>Replace Reference Image</b> confirmation dialog appears. Confirm it with <b>Replace</b> .
Delete Refer-	Click this button to delete the current reference image of the channel.
ence	The <b>Delete Reference Image</b> confirmation dialog appears. Confirm it with <b>Delete</b> .

#### **Change Status of a Channel**

In the manual check dialog, you can change the status of the channel manually.

- 1. Click on the **Change State** button.
- 2. The Change Channel State dialog window opens.

Change Channel State	
New State *	<b>-</b>
Comment *	11
	0 / 256
	Cancel Save

- 3. In the New State drop-down menu, select the **New State** of the channel.
- 4. Enter a comment in the **Comment** text box to explain the change of state. The comment is mandatory and must be min. 20 characters and max. 256 characters long.
- 5. Click Save.

## Reports

In the **B** Reports view you can configure and create a report manually.

#### **OPERATIONS USER INTERFACE**

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Channels	≡<	Reports				
Reports		REPORT	CONFIGURATION		PDF 🔯 HTML 🕞 CSV	
		States * Ok 🛞	Unknown 😵 Failure 😵 Choose States			
		Sites				
		Includ	e Images			
		METADA	ТА			
		State	Name	Site	Recorder	
		0	CH 001 - 1280 x 960 (AD)	Site NRW	Recorder Bonn	
		!	CH 003 SYNC TEST	Site NRW	Recorder Bonn	
		?	CH 006 - 1600 x 1200 (VMX)	Site NRW	Recorder Bonn	
		0	CH 007 - 1600 x 1200 (VMX)	Site NRW	Recorder Bonn	
		$\otimes$	CH 011 - 1920 x 1088 (VMD)	Site NRW	Recorder Bonn	
		?	CH 012 - 1920 x 1088 (VMD)	Site NRW	Recorder Bonn	
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How to configure the manual report:

- 1. In the **States** field, select the states to be listed in the report. Click **Choose States** to select a state from the drop-down menu.
- 2. In the Sites field, select the sites to list in the report.
- 3. Enable or disable the **Include Images** slider to select whether the current live image and the reference image of the channels should be listed in the report.
- 4. The **META DATA** list updates according to your configuration and displays the following preview information:
  - State
  - Name
  - Site
  - Recorder

5. Click the PDF, A HTML or CSV button to download the report in

the respective format and save it locally.

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