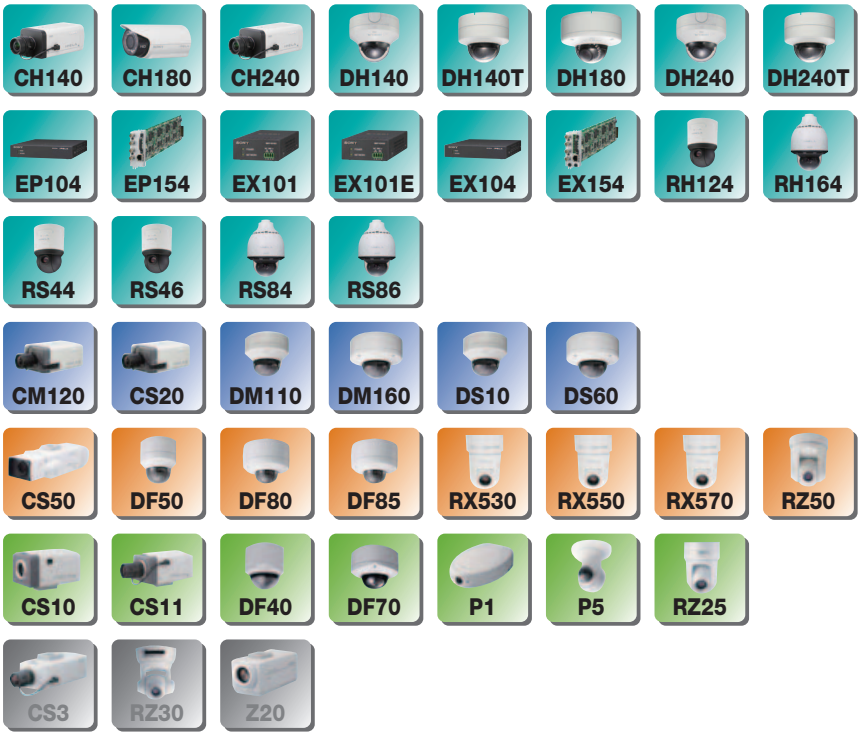
SONY

Application Guide

Alarm Data Handling



Sony Network Camera
May, 2010
IMA007V1.3
Alarm Data Handling

IPELA™

CONTENTS

1. Features

- You can receive the alarm status by synchronizing it with an external sensor input or the built-in object detection function.
- You can choose to use either the polling or server push method to acquire the status.

2. Benefits

- The system can take various actions because it is triggered by alarm data from the camera side.
- For example, the recorder system can start recording, change camera settings like the resolution or frame rate, pass the alarm data to another alarm management system, etc.

3. Note

3.1. User's Access Rights

To use this function, set your authentication level to "administrator" unless otherwise noted.

4. CGI Command/Syntax

4.1. Setting Command/Inquiry Command

CH140 CH180 CH240 DH140 DH140T DH180 DH240 DH240T EP104 EP154 EX101 EX101E EX104 EX154 RH124 RH164 RS44
RS46 RS84 RS86 CM120 CS20 DM110 DM160 DS10 DS60 CS50 DF50 DF80 DF85 RX530 RX550 RX570 RZ50

CGI	Parameter	Value	Description
system.cgi	AlarmData	on	Set to "on" when using the polling or server push method.
		off	Set to "off" when NOT using the polling or server push method.

CGI Syntax for setting:
http://ip_adr/command/system.cgi?AlarmData=*value*

CGI Syntax for inquiring:1 (* Alarm data related return value only is shown.)
http://ip_adr/command/inquiry.cgi?inq=system
Return Value:
….*&AlarmData=on*….

CGI Syntax for inquiring:2 (* Alarm data related return value only is shown.)
http://ip_adr/command/inquiry.cgi?inqjs=system
Return Values :
:
var AlarmData="on"
:

CS10 CS11 DF40 DF70 P1 P5 RZ25

CGI	Parameter	Value	Description
motiondetection.cgi	MdAlarmData	on	Set to “on“ when using the polling or server push method.
		off	Set to “off“ when NOT using the polling or server push method.

CGI Syntax for setting:
http://ip_adr/command/motiondetection.cgi?MdAlarmData=*value*

CGI Syntax for inquiring:1 (* Alarm data related return value only is shown.)
http://ip_adr/command/inquiry.cgi?inq=motiondetection
Return Value:
….*&MdAlarmData=on*….

CGI Syntax for inquiring:2 (* Alarm data related return value only is shown.)
http://ip_adr/command/inquiry.cgi?inqjs=motiondetection
Return Values :
:
var MdAlarmData=“on”
:

4.2. Polling Method

All Applicable Models

With the polling method, you can get the alarm status by sending a request.

4.2.1. Command Sequence

For details on the alarm status provided as the return value, refer to section 4.4.

Precautions on motion detection status (only for SNC-CS10/CS11/ DF40/DF70/P1/P5/RZ25):
- The camera sends the status in the frame just before the request is received.
  If the immediately preceding frame is an I frame, the camera sends the status in the frame just before the I frame.
- When the JPEG video mode is used, information from MidWin1 to MidWin4 is NOT added.

CGI Syntax for inquiring:1
http://ip_adr/command/inquiry.cgi?inq=alarmdata

Return Value:
ParameterName1=value&ParameterName2=value….

CGI Syntax for inquiring:2
http://ip_adr/command/inquiry.cgi?inqjs=alarmdata

Return Value:
var ParameterName1=“value”
var ParameterName2=“value”

4.3. Server Push Method

By using the server push method, you can receive the alarm status continuously.

The maximum simultaneous connection number is limited to 3. If this is exceeded, the “Bad request" message is sent by the camera.

4.3.1. Command Sequence

Note:
For details on the alarm status provided as return value, see section 4.4.

All Applicable Models

CGI	Parameter	Value	Description
alarmdata.cgi	interval	Not specified (default), or 0	Sends the alarm status every time CGI command is received or status is changed.
		1 to 3600	Sends the alarm status every time CGI command is received or status is changed. In addition, periodically sends at the specified interval (unit: second).

CGI Syntax for setting:
http://ip_adr/command/alarmdata.cgi?interval=*value*

Return Value:
Note:
Each part of the Main data shall begin with the statement --myboundary.

CH140 CH180 CH240 DH140 DH140T DH180 DH240 DH240T EP104 EP154 EX101 EX101E EX104 EX154 RH124 RH164 RS44
RS46 RS84 RS86 CM120 CS20 DM110 DM160 DS10 DS60 CS50 DF50 DF80 DF85 RX530 RX550 RX570 RZ50

```
HTTP/1.1 200 OK                                                    } HTTP header
Content-Type: multipart/x-mixed-replace;boundary=--myboundary

--myboundary                                                       }
Content-Type: text/plain                                           }
CamTim: 2005-01-15 Sat 16:18:22                                    }
                                                                   } Main data 1 *1
AlarmParameter1=value                                              }
AlarmParameter2=value                                              }
:                                                                  }
(For details on each alarm status, refer to section 4.4.)          }

--myboundary                                                       }
Content-Type: text/plain                                           }
CamTim: 2005-01-15 Sat 16:18:22                                    }
                                                                   } Main data 2 *1
AlarmParameter1=value                                              }
AlarmParameter2=value                                              }
:                                                                  }
(For details on each alarm status, refer to section 4.4.)          }
```

*1: Description of Main data header

Header	Description
Content-Type	Fixed to “text-plain”
CamTim	Local Date/Time information based on the timezone preconfigured by the camera

CS10 CS11 DF40 DF70 P1 P5 RZ25

HTTP/1.1 200 OK
Content-Type: multipart/x-mixed-replace;boundary=--myboundary

→ HTTP header

--myboundary
Content-Type: text/plain
CamTim: 2005-01-15 Sat 16:18:22
TimStamp: 0000296580

AlarmParameter1=value
AlarmParameter2=value
:
(For details on each alarm status, refer to section 4.4.)

→ Main data 1 *2

--myboundary
Content-Type: text/plain
CamTim: 2005-01-15 Sat 16:18:22
TimStamp: 0000296613

AlarmParameter1=value
AlarmParameter2=value
:
(For details on each alarm status, refer to section 4.4.)

→ Main data 2 *2

*2: Description of Main data header

Header	Description
Content-Type	Fixed to “text-plain”
CamTim	Date/Time information
TimStamp	Time Stamp of 10-digit number (Unit: msec) If it exceeds ‘4292967295’, it is reset to 0.

4.4. Description of Alarm Status

CH140 CH180 CH240 DH140 DH140T DH180 DH240 DH240T EX101 EX101E EX104 EX154 RH124 RH164 RS44 RS46 RS84 RS86

Parameter	Value	Description
Sensor*n* (*3)	1	Sensor *n* input is short-circuited.
	0	Sensor *n* input is opened.
OdWin1	1	A moving object is detected inside the Window 1 frame.
	0	A moving object is NOT detected inside the Window 1 frame.
OdWin2	1	A moving object is detected inside the Window 2 frame.
	0	A moving object is NOT detected inside the Window 2 frame.
OdWin3	1	A moving object is detected inside the Window 3 frame.
	0	A moving object is NOT detected inside the Window 3 frame.
OdWin4	1	A moving object is detected inside the Window 4 frame.
	0	A moving object is NOT detected inside the Window 4 frame.
VMF	1	A moving object is detected by VMF.
	0	A moving object is NOT detected by VMF.
Tampering	1	Camera tampering is detected.
	0	Camera tampering is NOT detected.
Audio (*4)	1	Sound is detected from the microphone input.
	0	Sound is NOT detected from the microphone input.

*3: Available sensor input number (*n*)

Applicable Models	Number of Sensor input
SNC-CH140/CH180/CH240/DH140/DH140T/ DH180/DH240/DH240T	1
SNT-EX101/EX101E	1-2
SNC-RH124/RH164/RS44/RS46/RS84/RS86 SNT-EX104/EX154	1-4

*4: Ver.1.1 or later

EP104 EP154

Parameter	Value	Description
MdWin1	1	A moving object is detected inside the Window 1 frame.
	0	A moving object is NOT detected inside the Window 1 frame.

CM120 CS20 DM110 DM160 DS10 DS60

Parameter	Value	Description
Sensor1	1	Sensor 1 input is short-circuited.
	0	Sensor 1 input is opened.
OdWin1	1	A moving object is detected inside the Window 1 frame.
	0	A moving object is NOT detected inside the Window 1 frame.
OdWin2	1	A moving object is detected inside the Window 2 frame.
	0	A moving object is NOT detected inside the Window 2 frame.
OdWin3	1	A moving object is detected inside the Window 3 frame.
	0	A moving object is NOT detected inside the Window 3 frame.
OdWin4	1	A moving object is detected inside the Window 4 frame.
	0	A moving object is NOT detected inside the Window 4 frame.

CS50 DF50 DF80 DF85 RX530 RX550 RX570 RZ50

Parameter	Value	Description
Sensor*n* (*5)	1	Sensor *n* input is short-circuited.
	0	Sensor *n* input is opened.
OdWin1	1	A moving object or unattended object is detected inside the Window 1 frame.
	0	A moving object or unattended object is NOT detected inside the Window 1 frame.
OdWin2	1	A moving object or unattended object is detected inside the Window 2 frame.
	0	A moving object or unattended object is NOT detected inside the Window 2 frame.
OdWin3	1	A moving object or unattended object is detected inside the Window 3 frame.
	0	A moving object or unattended object is NOT detected inside the Window 3 frame.
OdWin4	1	A moving object or unattended object is detected inside the Window 4 frame.
	0	A moving object or unattended object is NOT detected inside the Window 4 frame.

*5: Available sensor input number (*n*)

Applicable Models	Number of Sensor input
SNC-DF50/DF80/DF85	1
SNC-CS50/RX530/RX550/RX570/RZ50	1-2

CS10 CS11 DF40 DF70 P1 P5 RZ25

Parameter	Value	Description
Sensor1	1	Sensor 1 input is short-circuited.
	0	Sensor 1 input is opened.
Sensor2 (for SNC-P5/RZ25 only)	1	Sensor 2 input is short-circuited.
	0	Sensor 2 input is opened.
MdWin1 (*6)	1	A moving object is detected inside the Window 1 frame.
	0	A moving object is NOT detected inside the Window 1 frame.
MdWin2 (*6)	1	A moving object is detected inside the Window 2 frame.
	0	A moving object is NOT detected inside the Window 2 frame.
MdWin3 (*6)	1	A moving object is detected inside the Window 3 frame.
	0	A moving object is NOT detected inside the Window 3 frame.
MdWin4 (*6)	1	A moving object is detected inside the Window 4 frame.
	0	A moving object is NOT detected inside the Window 4 frame.

*6: When the JPEG video mode is used, information from MdWin1 to MdWin4 is NOT added.

5. Applicable Models

- SNC-CH140
- SNC-CH180
- SNC-CH240
- SNC-CM120
- SNC-CS10/CS11
- SNC-CS20
- SNC-CS50N/CS50P
- SNC-P1/P5
- SNC-DF40N/DF40P
- SNC-DF50N/DF50P
- SNC-DF70N/DF70P
- SNC-DF80N/DF80P
- SNC-DF85N/DF85P
- SNC-DH140/DH140T
- SNC-DH180
- SNC-DH240/DH240T
- SNC-DM110
- SNC-DM160
- SNC-DS10
- SNC-DS60
- SNC-RH124
- SNC-RH164
- SNC-RS44N/RS44P
- SNC-RS46N/RS46P
- SNC-RS84N/RS84P
- SNC-RS86N/RS86P
- SNC-RX530N/RX530P
- SNC-RX550N/RX550P
- SNC-RX570N/RX570P
- SNC-RZ25N/RZ25P
- SNC-RZ50N/RZ50P
- SNT-EP104/EP154
- SNT-EX101/EX101E/EX104/EX154