

SONY[®]

SNC-RZ30
Web pages customization documentation

version 1

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SONY Corporation

1. General description

This documentation explains the way to display the live images in the other web site and to customize GUI of SONY Network Camera SNC-RZ30. You can view the live images easily by connecting the SNC-RZ30 to the network. When displaying the live images in the other web site and customizing GUI , refer to this documentation and its sample codes.

2. Attention

The contents of this documentation stands for just the reference. When using the sample codes, the knowledge about HTML and Java Script is needed for implementation. We take no responsibility to any damage by the use of this at all. Moreover, this information may be changed without any announcement for the reason of upgrading the product and so on.

3. Providing sample codes

3.1 The sample codes for calling the ActiveX viewer

The ActiveX viewer is the program which can work in the environment of Internet Explorer (ver 5.5 sp2 or higher or ver 6) on Windows 98 / 98SE / NT4.0 / 2000 / Me / XP Operating System. This is named as the archive "SncRz30View.cab" and is located in /home/ directory in the SNC-RZ30 web server. This chapter provides the sample codes to load the ActiveX viewer.

The sample codes are listed below and its brief introduction goes on as follows.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<HTML LANG="EN">
<HEAD>
<META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=iso-8859-1">
<META HTTP-EQUIV="Content-Script-Type" CONTENT="text/javascript">
<META HTTP-EQUIV="Pragma" CONTENT="no-cache">
<TITLE>ActiveX Viewer</TITLE>
<SCRIPT LANGUAGE="JavaScript1.2" SRC="<IP>/command/inquiry.cgi?inqjs=sysinfo" TYPE="text/javascript">
</SCRIPT>
<SCRIPT LANGUAGE="JavaScript1.2" SRC="<IP>/command/inquiry.cgi?inqjs=tcipip" TYPE="text/javascript">
</SCRIPT>
<SCRIPT LANGUAGE="JavaScript" TYPE="text/javascript">
<!--
function AViewer(){
document.open();
document.write("<OBJECT ID='Camera1'"");
document.write("CLASSID='CLSID:63DF43C2-469A-41F3-B119-17B1ACE8BB34'"");
document.write("CODEBASE='<IP>/home/SonySncRz30View.cab' NAME='viewer'"");
document.write("<PARAM NAME='URL' ");
document.write("VALUE="+Ip+">");
document.write("<PARAM NAME='MOUNT' ");
document.write("VALUE="+Mount+">");
document.write("<PARAM NAME='RATE' ");
document.write("VALUE="+DefFrameRate+">");
document.write("<VOBJECT>");
document.close();
}
-->
</SCRIPT>
</HEAD>
<BODY TEXT="#FFFFFF" BGCOLOR="#000000" ONLOAD="JavaScript:document.viewer.Start();">
<SCRIPT TYPE="text/javascript">
<!--
AViewer();
-->
</SCRIPT>
</BODY>
</HTML>
```

a) The script for the inquiry of parameters

b) The function declaration

c) The script for loading the ActiveX program

The script for the inquiry of parameters

The ActiveX viewer the SNC-RZ30 provides with needs to get some parameters to start up, so that there need to be some scripts as the sample codes shown in (a). By the scripts shown in the sample codes the following parameters can be obtained.

"URL information"

This is information about the host name or IP address of the host for ActiveX to connect to.

"Mount information"

This is information how the SNC-RZ30 installs with the mount type. By this information the ActiveX program can select its display of Motion JPEG images with the mount type as desktop or as ceiling.

"Default frame rate information"

This is information about the frame rate of the ActiveX viewer to get Motion JPEG images.

The function declaration to load the ActiveX viewer

The description as shown in (b) is needed to declare the function which is used to load the ActiveX viewer in the Internet Explorer.

The script to load the ActiveX viewer

The description as shown in (c) is the substance of the function (b).

Supplementary 1: How to describe <IP>

<IP> is needed to be put appropriate path in. Refer to the following explanation.

- (1) In the case of embedding the customized files into the SNC-RZ30 web server
When the customized web contents files are to be embedded in the SNC-RZ30 web server by using PC card media such as Memory Stick, there need to be no specification in <IP>.
- (2) In the case of embedding the files into the other web server or another usage
<IP> is needed to be put absolute path such as "http://192.168.0.100" in this case.

Supplementary2: About the background color of the web page

The background color of the web page is set to black(#000000) in the "BODY" tag in the sample codes. If the different color code is set, the background color of the viewer and the html page itself become different.

3.2 The sample codes for calling the Java applet viewer

The Java applet viewer is the program which can work in the environment of both the Internet Explorer and Netscape Navigator(ver 6.x and Java VM is needed to be installed in advance). This is named as as the archive "JViewer.jar" and is located in /home/ directory in the SNC-RZ30 web server. This chapter provies the sample codes to load the Java applet viewer.

The sample codes are listed below. Refer to the "Supplementary 1" of chapter 3.1 about the way to describe <IP>. Regarding the background color of the viewer, black color which color code is #000000 is preferable.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<HTML LANG="EN">
<HEAD>
<META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=iso-8859-1">
<META HTTP-EQUIV="Pragma" CONTENT="no-cache">
<META HTTP-EQUIV="Cache-Control" CONTENT="no-cache">
<TITLE>Java Applet Viewer</TITLE>
</HEAD>
<BODY TEXT="#FFFFFF" BGCOLOR="#000000">
<APPLET codebase="<IP>/home/" code="appletviewer.viewer.class" archive="JViewer.jar" name="viewer"
width=750 height=560 hspace=0 vspace=0 align="top">
</APPLET>
</BODY>
</HTML>
```

The script for loading the Java applet viewer

3.3 The sample codes for calling the Java applet of the camera control panel

The SNC-RZ30 uses Java applet for the camera control panel to control Pan, Tilt, Zoom, and Focus. This is named as the archive "CControl.jar" or "CControl2.jar" and is located in /home/l2/ directory in the SNC-RZ30 web server. This chapter provides the sample codes to load the camera control panel.

The Java applet of the camera control panel need to be selected properly by the client PC environment. The sample codes as follows provides the way to determine which applet is to be selected and load the appropriate applet to control the Pan, Tilt, Zoom, and Focus. Refer to the "Supplementary 1" of chapter 3.1 about the way to describe <IP>. The sample codes use the background color of #4B6EB6 to correspond to the color of the panel.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<HTML LANG="EN">
<HEAD>
<META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=iso-8859-1">
<META HTTP-EQUIV="Content-Script-Type" CONTENT="text/javascript">
<META HTTP-EQUIV="Pragma" CONTENT="no-cache">
<META HTTP-EQUIV="Cache-Control" CONTENT="no-cache">
<TITLE>Camera Control</TITLE>
<SCRIPT LANGUAGE="JavaScript" TYPE="text/javascript">
<!--
function CControl()
{
an = navigator.appName;
document.open();
if (an != "Microsoft Internet Explorer"){
document.write("<APPLET CODEBASE='<IP>/home/l2/' CODE='cameracontrol.Controler.class' ARCHIVE='CControl.jar'");
}
else{
document.write("<APPLET CODEBASE='<IP>/home/l2/' CODE='cameracontrol.Controler.class' ARCHIVE='CControl2.jar'");
}
document.write(" WIDTH=160 HEIGHT=255 HSPACE=0 VSPACE=0 ALIGN='top'>");
document.write("<VAPPLET>");
document.close();
}
//-->
</SCRIPT>
</HEAD>
<BODY bgcolor="#4B6EB6">
<SCRIPT TYPE="text/javascript">
<!--
CControl();
//-->
</SCRIPT>
</BODY>
</HTML>
```

3.4 The sample codes for controlling Pan, Tilt, and Zoom

The sample codes as follows deploy the submit buttons to control the Pan and Zoom function of the SNC-RZ30. When realizing the CGI command base control of the SNC-RZ30 without using the camera control panel which is built in the SNC-RZ30 web server, refer to the sample codes below.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<HTML LANG="EN">
<HEAD>
<META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=iso-8859-1">
<META HTTP-EQUIV="Pragma" CONTENT="no-cache">
<TITLE>CAMERA CONTROL</TITLE>
</HEAD>
<BODY>
<CENTER>
<P><H3><B>[ PAN ]</B></H3></P>
<TABLE ALIGN="CENTER" VALIGN="MIDDLE">
<TR>
<TD>
<FORM ACTION="<IP>/command/visca-ptzf.cgi" METHOD=POST>
<INPUT TYPE="HIDDEN" NAME="visca" VALUE="8101060103030103FF">
<INPUT TYPE="SUBMIT" VALUE="LEFT "></FORM>
</TD>
<TD>
<FORM ACTION="<IP>/command/visca-ptzf.cgi" METHOD=POST>
<INPUT TYPE="HIDDEN" NAME="visca" VALUE="810106010303030303FF">
<INPUT TYPE="SUBMIT" VALUE="STOP"></FORM>
</TD>
<TD>
<FORM ACTION="<IP>/command/visca-ptzf.cgi" METHOD=POST>
<INPUT TYPE="HIDDEN" NAME="visca" VALUE="8101060103030203FF">
<INPUT TYPE="SUBMIT" VALUE="RIGHT"></FORM>
</TD>
</TR>
</TABLE>
<P><H3><B>[ ZOOM ]</B></H3></P>
<TABLE>
<TR>
<TD>
<FORM ACTION="<IP>/command/visca-ptzf.cgi" METHOD=POST>
<INPUT TYPE="HIDDEN" NAME="visca" VALUE="8101040734FF">
<INPUT TYPE="SUBMIT" VALUE="WIDE"></FORM>
</TD>
<TD>
<FORM ACTION="<IP>/command/visca-ptzf.cgi" METHOD=POST>
<INPUT TYPE="HIDDEN" NAME="visca" VALUE="8101040700FF">
<INPUT TYPE="SUBMIT" VALUE="STOP"></FORM>
</TD>
<TD>
<FORM ACTION="<IP>/command/visca-ptzf.cgi" METHOD=POST>
<INPUT TYPE="HIDDEN" NAME="visca" VALUE="8101040724FF">
<INPUT TYPE="SUBMIT" VALUE="TELE"></FORM>
</TD>
</TR>
</TABLE>
</CENTER>
</BODY>
</HTML>
```

Note : The sample codes cannot be used when the "Exclusive control mode" is set to "ON" in the system setting page. Be sure to set the mode to "OFF".

The table 1 shows how to put in the data sequence for the <VALUE> of the CGI command. Refer to the table to customize the pages to control Pan, Tilt, Zoom and Focus function of the SNC-RZ30.

Table1: CGI command list for SNC-RZ30 Pan, Tilt, Zoom, and Focus

Command set	Command	PTZF command	Comment		
Auto Pan-Tilt Speed	On	81 01 06 24 02 FF	Auto Pan-Tilt Speed Control ON/OFF		
	Off	81 01 06 24 03 FF			
Pan-Tilt Drive	Up	81 01 06 01 vv ww 03 01 FF	vv: Pan speed ww: Tilt speed *Effective Pan-Tilt Auto Speed		
	Down	81 01 06 01 vv ww 03 02 FF			
	Left	81 01 06 01 vv ww 01 03 FF			
	Right	81 01 06 01 vv ww 02 03 FF			
	UpLeft	81 01 06 01 vv ww 01 01 FF			
	UpRight	81 01 06 01 vv ww 02 01 FF			
	DownLeft	81 01 06 01 vv ww 01 02 FF			
	DownRight	81 01 06 01 vv ww 02 02 FF			
	Stop	81 01 06 01 vv ww 03 03 FF			
	AbsolutePosition	81 01 06 02 vv ww 0y 0y 0y 0z 0z 0z 0z FF		yyyy: Pan position zzzz: Tilt position	
	RelativePosition	81 01 06 03 vv ww 0y 0y 0y 0z 0z 0z 0z FF			
	Home	81 01 06 04 FF			
	Zoom	Reset		81 01 06 05 FF	p=0(Low)-7(Fast) pqrs: Zoom Position Digital Zoom ON/OFF
Stop		81 01 04 07 00 FF			
Tele(Standard)		81 01 04 07 02 FF			
Wide(Standard)		81 01 04 07 03 FF			
Tele(Variable)		81 01 04 07 2p FF			
Wide(Variable)		81 01 04 07 3p FF			
Direct		81 01 04 47 0p 0q 0r 0s FF			
D-Zoom On		81 01 04 06 02 FF			
D-Zoom Off		81 01 04 06 03 FF			
Focus		Stop	81 01 04 08 00 FF	p=0(Low)-7(High) pqrs: Focus Position AF ON/OFF	
		Far(Standard)	81 01 04 08 02 FF		
		Near(Standard)	81 01 04 08 03 FF		
		Far(Variable)	81 01 04 08 2p FF		
	Near(Variable)	81 01 04 08 3p FF			
	Direct	81 01 04 48 0p 0q 0r 0s FF			
	Auto Focus	81 01 04 38 02 FF			
	Manual Focus	81 01 04 38 03 FF			
	Auto/Manual	81 01 04 38 10 FF			
	One Push Trigger	81 01 04 18 01 FF	One Push AF Trigger		
	Infinity	81 01 04 18 02 FF	Forced Infinity		
	Near Limit	81 01 04 28 0p 0q 0r 0s FF	pqrs: Focus Near Limit Position		
	Zoom_Focus	Direct	81 01 04 47 0p 0q 0r 0s 0t 0u 0v 0w FF		pqrs: Zoom Position tuvw: Focus Position

Supplementary 3: About the "Auto Pan-Tilt Speed" function

The "Auto Pan-Tilt Speed" function of the SNC-RZ30 is set to "ON" as the factory default setting. This means that the Pan and Tilt function of the SNC-RZ30 move proportionally for the SNC-RZ30's zoom position. In this setting (with "Auto Pan-Tilt Speed" as "ON") there is no meaning of the speed parameters (vv, ww). So when setting the speed parameters of the Pan and Tilt motion, set the "Auto Pan-Tilt Speed" to "OFF".

Version history

Version	Date	Comment
version 1	2002.8.12	First issue