



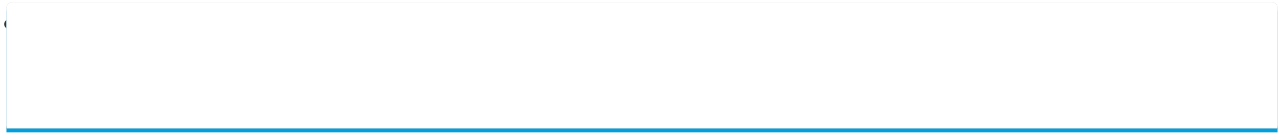
Sanyo PLC-WXU300 - 2500 Lumens Manual

Rs232 expand

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EXPAND SERIAL COMMAND FUNCTIONAL SPECIFICATIONS

PLC-WXU300

Ver. 1.00

SANYO Electric Co., Ltd

DS Company

Projector Division

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Instruction manual, plc-xu88 network set up (144 pages)

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PLC-WXU300 Expand Serial Command Functional Specifications Overview 1.1 This Functional Specification defines communication functions for PLC-WXU300. 1.2 Compatible to Firmware Ver. 1.x of the projector. 1.3 Most commands can be used to control projector remotely from PC by RS-232C. Therefore, the commands are defined as Expand Serial Commands.

[Page 9: Notes For Communication](#)

PLC-WXU300 Expand Serial Command Functional Specifications Notes for communication 1. Expand Serial Command is defined as one command / one line that starts with "C" and ends with carriage return (0x0D) 2. There are two types of commands: Functional Execution Command and Status Read Command.

[Page 10: Functional Execution Command Table](#)

PLC-WXU300 Expand Serial Command Functional Specifications 5. Functional Execution Command Table 5.1 Image Command Table Execute command Item CF_BRIGHT_%1[CR] Set Brightness value CF_CONT_%1[CR] Set Contrast value CF_COLOR_%1[CR] Set Color value CF_TINT_%1[CR] Set Tint value CF_SHARP_%1[CR] Set Sharpness value CF_GAMMA_%1[CR] Set Gamma value CF_WBAL-R_%1[CR] Set White Balance Red value CF_WBAL-G_%1[CR]...

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PLC-WXU300 Expand Serial Command Functional Specifications 5.4 Screen Command Table Execute command Item CF_SCREEN_%1[CR] Select Screen size CF_DZCENT_%1[CR] Cancel Digital Zoom mode CF_KEYSTONE_%1[CR] Set Keystone CF_KYSTNMODE_%1[CR] Set Keystone Store mode CF_VSCALE_%1[CR] Set value of Vertical scale CF_VPOS_%1[CR] Set value of Vertical position CF_HSCALE_%1[CR] Set value of Horizontal scale CF_HPOS_%1[CR]...

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PLC-WXU300 Expand Serial Command Functional Specifications 5.8 Other Command Table Execute command Item Behave the same as corresponding key of Projector / CF_KEYEMU_%1[CR] Remote control. CF_MENU_%1[CR] Switch ON/OFF of each Menu. CF_POWER_%1[CR] Switch ON/OFF of Power. CF_FREEZE_%1[CR] Set Freeze function.

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PLC-WXU300 Expand Serial Command Functional Specifications 7. Error Code Table Error Code Contents -When the received data cannot be decoded -Parameter determination error (digit number error, including invalid value, etc.) The function is not available in the selected Mode Selected value is out of range (Not reflected) Command mismatched to Hardware (command for Optional function which is not installed) When reached upper or lower limit of increasing or...

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PLC-WXU300 Expand Serial Command Functional Specifications 8. Functional Execution Command 8.1 Format PC issues commands in format as below: Pattern1 : "CF_COMMAND" [CR] Pattern2 : "CF_COMMAND_%1 [CR] CF_ : Header COMMAND : Character line %1 : Parameter (Character line) _ : Space (To separate COMMAND and Parameter) The projector decodes the received command and when it is ready to receive the next command, it returns the response.

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PLC-WXU300 Expand Serial Command Functional Specifications 8.4 Image Command 8.4.1 CF_BRIGHT Command Command "CF_BRIGHT_%1"[CR] "000~063" ----- Directly select Brightness setting value "UP" ----- Current Brightness setting value + 1 "DN" ----- Current Brightness setting value - 1 Set Brightness value of user control The value set by this command will not be saved to projector.

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PLC-WXU300 Expand Serial Command Functional Specifications 8.4.5 CF_SHARP Command Command "CF_SHARP_%1"[CR] "000~015" ----- Directly select Sharpness setting value "UP" ----- Current Sharpness setting value + 1 "DN" ----- Current Sharpness setting value - 1 Set Sharpness value of user control The value set by this command will not be saved to projector.

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PLC-WXU300 Expand Serial Command Functional Specifications 8.4.8 CF_COLTEMP Command Command "CF_COLTEMP_%1"[CR] "000" ----- Xlow "001" ----- Low "002" ----- Mid "003" ----- High Set Color Temperature. (Available only in the normal Power ON status) The value set by this command will not be saved to the projector. Therefore, when Details turning into Standby-mode or ALL is OFF, the value returns to original setting.

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PLC-WXU300 Expand Serial Command Functional Specifications 8.4.11 CF_IMAGE Command Command "CF_IMAGE_%1"[CR] "DYNAMIC" ----- Dynamic (Fixed value to enable projection with a sharp, powerful picture tone) "STAND" ----- Standard (Image adjust value is set to factory

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[Page 22: Pc Adjust Control Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 8.5 PC Adjust Control Command
8.5.1 CF_FSYNC Command Command "CF_FSYNC_%1"[CR] "0000~0031" ----- Directly
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PLC-WXU300 Expand Serial Command Functional Specifications 8.5.7 CF_DLINE Command
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----- Current Display Line setting value + 1 "DN"...

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PLC-WXU300 Expand Serial Command Functional Specifications 8.6 Input Control Command
8.6.1 CF_INPUT Command Command "CF_INPUT_%1"[CR] "COMPUTER1" ----- Select Computer1
Input "COMPUTER2" ----- Select Computer2 Input "HDMI" ----- Select HDMI Input
"VIDEO" ----- Select Video Input "S-VIDEO" ----- Select S-video "UP" -----
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PLC-WXU300 Expand Serial Command Functional Specifications When Input specified by %1 is
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PLC-WXU300 Expand Serial Command Functional Specifications 8.7 Screen Control Command
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PLC-WXU300 Expand Serial Command Functional Specifications 8.7.3 CF_KEystone Command
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part of image "FUP" ----- Correct Keystone distortion to reduce upper part by 2steps "DN" ---
----- Correct Keystone distortion to reduce lower part of image "FDN"...

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PLC-WXU300 Expand Serial Command Functional Specifications 8.7.6 CF_VPOS Command
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---- +1 "000" ----- +0 "-01" ----- -1 "-02" ----- -2 ÿ "-14" ----- -14 "-15" ----- -15
"UP"...

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PLC-WXU300 Expand Serial Command Functional Specifications 8.7.8 CF_HPOS Command
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---- +1 "000" ----- +0 "-01" ----- -1 "-02" ----- -2 ÿ "-14" ----- -14 "-15" ----- -15
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PLC-WXU300 Expand Serial Command Functional Specifications 8.8 Lamp Command 8.8.1
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PLC-WXU300 Expand Serial Command Functional Specifications 8.10 Setting Command 8.10.1
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----- Select Italian "ESP" ----- Select Spanish "POR" -----
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PLC-WXU300 Expand Serial Command Functional Specifications 8.10.8 CF_DISP Command
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PLC-WXU300 Expand Serial Command Functional Specifications 8.10.10 CF_CEIL Command
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"MONITOR" ----- Set Monitor Out mode Set Terminal setup. This command is available
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PLC-WXU300 Expand Serial Command Functional Specifications 8.10.17 CF_PIPPOSITION
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----- Move Subpicture to Top right "TOPLEFT" ----- Move Subpicture to Top left "UP" ----- Switch Subpicture position forward ý...

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PLC-WXU300 Expand Serial Command Functional Specifications 8.10.20 CF_P-MANETIME
Command Command "CF_P-MANETIME_%1"[CR] "01" ~ "30" ----- Directly select setting time by the minute "UP" ----- Plus one minute (01 → 02 → ý e ý e ý e → 30 → 01) ý...

[Page 42: Cf_Ccaptioncolor Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 8.10.23 CF_CCAPTIONCOLOR
Command Command "CF_CCAPTIONCOLOR_%1"[CR] "COLOR" ----- Select Color "WHITE" -----
Select White Select color of Closed caption. The status set with this command is stored in EEPROM and its setting is effective even after ALL is OFF. This command is available in normal Power ON status.

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PLC-WXU300 Expand Serial Command Functional Specifications 8.10.26 CF_PJPINCODE
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PLC-WXU300 Expand Serial Command Functional Specifications 8.10.29 CF_FILTERIMER Command
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----- Switch Filter timer forward ý Off →100 → 200 → 300 → Off ý "DN"...

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CF_KEYENU Command Command "CF_KEYENU_%1"[CR] "RIGHT" ----- Shift Pointer on OSD Menu to right "LEFT" ----- Shift Pointer on OSD Menu to left "UP" -----
----- Shift Pointer on OSD Menu to right "DN"...

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PLC-WXU300 Expand Serial Command Functional Specifications 8.11.4 CF_FREEZE Command
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-- Set Freeze to OFF "UP" ----- Switch setting (On → Off → On → ý e ý e ý e)
"DN"...

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PLC-WXU300 Expand Serial Command Functional Specifications 9. Status Read Command 9.1
Format PC issues commands in format as below: "CR_Command" [CR] Command: Character Line
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PLC-WXU300 Expand Serial Command Functional Specifications 9.7 Input Status Read Command 9.7.1 CR_INPUT Command Command "CR_INPUT"[CR] Details Get selected INPUT No. Acceptable "000_%1"[CR] Response Request data "1"- "5" Unacceptable "Error code"[CR] 9.7.2 CR_SOURCE Command Command "CR_SOURCE"[CR] Details Get selected Source Acceptable "000_%1"[CR] "ANALOG"...

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PLC-WXU300 Expand Serial Command Functional Specifications "AUTO" ----- Auto is selected "1080i" ----- 1080i is selected "1035i" ----- 1035i is selected "720p" ----- 720p is selected Input is "575p" ----- 575p is selected Y,Pb/Cb,Pr "480p" ----- 480p is selected "575i" ----- 575i is selected "480i"...

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PLC-WXU300 Expand Serial Command Functional Specifications 9.9 Lamp Status Read Command 9.9.1 CR_LAMPREPL Command Command "CR_LAMPREPL"[CR] Details Get information of Lamp Replacement time Acceptable "000_%1"[CR] "1Y" ----- Over lamp replacement time "1N" ----- Within lamp replacement time "1" means the number of lamps. Response (1 lamp model→...

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PLC-WXU300 Expand Serial Command Functional Specifications 9.9.5 CR_LAMPMSTS Command Command "CR_LAMPSTS"[CR] Details Get Lighting status of lamp Acceptable "000_%1"[CR] "ÿ N **** " A number of * should be among 1-4. First character shows how many lamps are incorporated in projector.

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[Page 63: Setting Status Read Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.11 Setting Status Read Command 9.11.1 CR_LANG Command Command "CR_LANG"[CR] Details Get selected language Acceptable "000_%a"[CR] "ENG" ----- English is selected "DEU" ----- -- German is selected "FRA" ----- French is selected "ITA" ----- Italian is selected "ESP"...

[Page 64: Cr_Backgnd Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.11.5 CR_BACKGND Command Command "CR_BACKGND" [CR] Details Get setting status of Screen for no signal Acceptable "000_%1" [CR] "BLUE" ----- Blue Back is selected Response "USER" ----- ----- User is selected "BLACK" ----- Black Back is selected Unacceptable "Error Code"...

[Page 65: Cr_Hdmi Setup Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.11.10 CR_HDMI SETUP Command Command "CR_HDMI SETUP"[CR] Details Get status of Image mode in HDMI setup Acceptable "000_%1"[CR] "NORMAL" ----- Image mode is Normal Response "ENHANCED" ----- Image mode is Enhanced Unacceptable "Error code"[CR] 9.11.11 CR_HDMI SETUPSOUND Command Command "CR_HDMI SOUND"[CR]...

[Page 66: Cr_Pipposition Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.11.15 CR_PIPPOSITION Command Command "CR_PIPPOSITION" [CR] Details Get position of Subpicture in Picture in Picture Acceptable "000_%1"[CR] "BTMRIGHT" ----- Subpicture is Bottom right "BTMLEFT" ----- Subpicture is Bottom left Response "TOPRIGHT" ----- Subpicture is Top right "TOPLEFT"...

[Page 67: Cr_Ccaptiondisp Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.11.20 CR_CCAPTIONDISP Command Command "CR_CCAPTIONDISP"[CR] Details Get selected channel of Closed caption Acceptable "000_%a"[CR] "OFF" ----- Off "CC1" ----- CC1 is selected Response "CC2" ----- - CC2 is selected "a" "CC3"----- CC3 is selected "CC4"...

[Page 68: Cr_Pjlocknow Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.11.25 CR_PJLOCKNOW Command Command "CR_PJLOCKNOW" [CR] Details Get if PJ lock is actually in operation Acceptable "000_%1[CR] "LOCK" ----- PJ Lock is in operation. PJ Lock status is ON-1 or ON-2 on Menu, and PJ PIN CODE is not entered so that projector is actually locked.

[Page 69: Cr_Filrepl Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.11.30 CR_FILREPL Command Command "CR_FILREPL"[CR] Details Get the information of Filter replacement time Acceptable "000_%1"[CR] "1Y" ----- Over filter replacement time Response "1N" ----- Within filter replacement time Unacceptable "Error Code"[CR] 9.11.31 CR_FILTIMER Command Command "CR_FILTIMER"...

[Page 70: Other Status Read Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.12 Other Status Read Command 9.12.1 CR_STATUS Command Command "CR_STATUS"(CR) Get status of Projector behavior. Details This command affects the same as "CR0" of Basic Serial command, but this has an error code. Acceptable "000_%1"[CR] "00"= Power ON "80"= Stand by...

[Page 71: Cr_Ptimer Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.12.5 CR_PTIMER Command Command "CR_PTIMER"[CR] Details Get status of Presentation Timer Acceptable "000_%a"[CR] "ON" ----- Presentation timer is in operation Response "STOP" ----- Presentation timer is paused "OFF" ----- Presentation timer is not operating Unacceptable "Error code"[CR] 9.12.6 CR_TEMPWARN Command...

[Page 72: Cr_Temp Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.12.7 CR_TEMP Command Command "CR_TEMP"[CR] Get current temperature inside a projector. Details If there are several sensors installed, it is possible to get information from all the sensors at once. Acceptable "000_%1_%2_%3"[CR] %1= Sensor 1 temperature (Outside temperature) %2= Sensor 2 temperature (Inside temperature1) %3= Sensor 3 temperature (Inside temperature2) %1,%2 are consists of 6 bites fixed...

[Page 73: Cr_Tempfail Command](#)

PLC-WXU300 Expand Serial Command Functional Specifications 9.12.8 CR_TEMPFAIL Command Command "CR_TEMPFAIL"[CR] Get the temperature inside a projector when abnormal temperature occurs. Details If there are several sensors installed, it is possible to get information from all the sensors at once. Acceptable "000_%a_%b_%c"[CR] %a ----- Sensor 1 temp.

This manual is also suitable for: