





## Sanyo PDG-DXL2000 - 2000 Lumens Specifications

Expand serial command functional specifications



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# EXPAND SERIAL COMMAND FUNCTIONAL SPECIFICATIONS

PDG-DXL2000

Ver. 1.00

SANYO Electric Co., Ltd

DS Company

Projector Division

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## [Page 8: Overview](#)

PDG-DXL2000 Expand Serial Command Functional Specifications Overview 1.1 This Functional Specification defines communication functions for PDG-DXL2000. 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](#)

PDG-DXL2000 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](#)

PDG-DXL2000 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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PDG-DXL2000 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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PDG-DXL2000 Expand Serial Command Functional Specifications CF\_FDEFAULT\_%1[CR] Set the value to Factory Default 5.8 Other Command Table Execute command Item Behave the same as corresponding key of the 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.

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PDG-DXL2000 Expand Serial Command Functional Specifications 7. Error Code Table Error Code Details -When the received data cannot be decoded -Parameter determination error (digit number error, including invalid value, etc.) When the function selected is not available under current condition. ex) When receiving signal-related commands while no signal is entered Selected value is out of range (Not reflected) Command mismatched to Hardware (command for Optional function...

## [Page 17: Functional Execution Command](#)

PDG-DXL2000 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.

## [Page 18: Image Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 8.4 Image Command 8.4.1 CF\_BRIGHT 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.

## [Page 19: Cf\\_Sharp Command](#)

PDG-DXL2000 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.

## [Page 20: Cf\\_Coltemp Command](#)

PDG-DXL2000 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

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### [Page 21: Cf\\_Image Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 8.4.11 CF\_IMAGE Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.5 PC Adjust Control  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.5.4 CF\_H - POS Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.6 Input Control Command  
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"VIDEO" ----- Select Video Input "S-VIDEO" ----- Select S-video "UP" -----  
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### [Page 26: Cf\\_Input1 Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 8.6.3 CF\_INPUT1 Command  
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### [Page 27: Cf\\_Input\\_%1\\_%2 Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 8.6.8 CF\_INPUT\_%1\_%2  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.7 Screen Control Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.7.3 CF\_KEYSTONE Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.7.6 CF\_VPOS Command  
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### [Page 31: Cf\\_Hpos Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 8.7.8 CF\_HPOS Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.7.11 CF\_COLBOARD  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.10 Setting Command 8.10.1  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.10.3 CF\_AUTOSETUPPCADJ  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.10.7 CF\_3DSYNC Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.10.11 CF\_BACKGND  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.10.13 CF\_LOGO Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.10.16 CF\_TERMINAL  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.10.23 CF\_RCODE Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 8.11.4 CF\_FREEZE Command  
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PDG-DXL2000 Expand Serial Command Functional Specifications 9. Status Read Command 9.1  
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PDG-DXL2000 Expand Serial Command Functional Specifications 9.5.6 CR\_PCSTORE Command Command "CR\_PCSTORE"[CR] Get Free/Stored status of MODE1 - MODE10 for PC Adjust Details The data consists of 10 bytes and each byte indicates the status of MODE1 ~ MODE10 respectively. (F:Free S:Stored) Acceptable "000\_%a"[CR] "FFFFFFFF"...

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PDG-DXL2000 Expand Serial Command Functional Specifications 9.6 Video Status Read Command 9.6.1 CR\_SERSYS Command Command "CR\_SERSYS"[CR] Get currently selected signal Details Returns auto-detected signal in Auto mode Only available for Video input. (N/A when Input is computer) Acceptable "000\_%1"[CR] "1080P60" ----- 1080p 60Hz "1080P50"...

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PDG-DXL2000 Expand Serial Command Functional Specifications 9.7.8 CR\_SYSTEM Command Command "CR\_SYSTEM"[CR] Details Get selected System Acceptable "000\_%1"[CR] "VGA1" ---- ----- VGA1 is selected "VGA2" ----- VGA2 is selected ÿ "XGA1"----- XGA1 is selected ÿ "WXGA3" ----- WXGA3 is selected "1080i" ----- 1080i is selected "720p"...

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CR\_HPOS Command Command "CR\_HPOS"[CR] Details Get setting status of Horizontal Position  
Store Mode Acceptable "000\_%1"[CR] Response...

## [Page 60: Lamp Status Read Command](#)

PDG-DXL2000 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→...

## [Page 61: Cr\\_Lampmsts Command](#)

PDG-DXL2000 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.

## [Page 62: Sound Status Read Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 9.10 Sound Status Read  
Command 9.10.1 CR\_VOLUME Command Command "CR\_VOLUME"[CR] Details Get Volume  
value of user control Acceptable "000\_%a"[CR] Response "000"~"063" Unacceptable "Error  
code"[CR] 9.10.2 CR\_MUTE Command Command "CR\_MUTE"[CR] Details Get sound mute  
setting status Acceptable "000\_%a"[CR] "ON"...

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

PDG-DXL2000 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" ----- Select English "DEU" -----  
Select German "FRA" ----- Select French "ITA" ----- Select Italian  
"ESP" ----- Select Spanish "POR"...

## [Page 64: Cr\\_ÿ Dset Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 9.11.4 CR\_ÿ DSET Command  
Command "CR\_3DSET"[CR] Details Get setting status of 3D function Acceptable "000\_%a"[CR]  
"ON" ----- On is selected Response "OFF" ----- Off is selected "NVIDIA"-----  
-----NVIDIA 3D VISION is selected Unacceptable "Error Code"[CR] 9.11.5 CR\_3DSYNC  
Command Command "CR\_3DSYNC"[CR] Details...

## [Page 65: Cr\\_Backgnd Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 9.11.9 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 66: Cr\\_Terminal Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 9.11.14 CR\_TERMINAL Command Command "CR\_TERMINAL" [CR] Details Get setting status of Terminal Acceptable "000\_%1"[CR] "COMPUTER"-----Computer Input mode Response "MONITOR"----- Monitor Out mode Unacceptable "?"[CR] 9.11.15 CR\_STANDBYMODE Command Command "CR\_STANDBYMODE" [CR] Details Get Standby Mode setting status Acceptable "000\_%a"[CR] "ECO"...

## [Page 67: Cr\\_Ccaptiondisp Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 9.11.19 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 "a" "CC2" --- ----- CC2 is selected "CC3" ----- CC3 is selected "CC4"...

## [Page 68: Cr\\_Pjlocknow Command](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 9.11.24 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](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 9.11.29 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] 9.11.30 CR\_FILTIMER Command Command "CR\_FILTIMER"...

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

PDG-DXL2000 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](#)

PDG-DXL2000 Expand Serial Command Functional Specifications 9.12.5 CR\_PTIMER Command Command "CR\_PTIMER"[CR] Details Get setting status of Presentation timer Acceptable "000\_%a"[CR] "ON" ----- Presentation timer is active Response "STOP" ----- - Presentation timer is pause "OFF" ----- Presentation timer is inactive Unacceptable "Error code"[CR] 9.12.6 CR\_TEMPWARN Command...

## [Page 72: Cr\\_Temp Command](#)

PDG-DXL2000 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](#)

PDG-DXL2000 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.