

Partner: Panasonic
Model: 2010
Device Type: PDP

**GENERAL INFORMATION:**

SIMPLWINDOWS NAME:	Panasonic PDP 2010 v1.0.umc
CATEGORY:	TV
VERSION:	v1.0
SUMMARY:	This module allows controlling the Panasonic PDP models of 2010 through RS-232.
GENERAL NOTES:	<p>This module allows controlling the Panasonic PDP models of 2010 through RS-232.</p> <p>At startup you have to trigger the signal: Request All Information, to synchronize the program with the Panasonic unit.</p> <p>It will request the information about the power status, selected input, volume, picture mode, aspect and screen resolution.</p> <p>With the signal: Request Screen information, you can request the info about the current screen resolution. There is no live feedback from the units, so you have to retrigger this signal after changing input/resolution.</p>
CRESTRON HARDWARE REQUIRED:	Crestron processor with 1 free COM port.
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	Panasonic PDP connected with a straight RS-232 cable to a Pro2 on COM A.
CABLE DIAGRAM:	Standard straight RS-232 cable.

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CONTROL:

Power On	D	Pulse to power on the unit.
Power Off	D	Pulse to power off the unit.
Vol Up	D	Pulse to increase the volume.
Vol Down	D	Pulse to decrease the volume.
Mute On	D	Pulse to mute the unit.
Mute Off	D	Pulse to un-mute the unit.
Aspect Zoom	D	Pulse to select the zoom aspect.
Aspect 16:9	D	Pulse to select the 16:9 aspect.
Aspect Just	D	Pulse to select the "just" aspect.
Aspect 4:3	D	Pulse to select the 4:3 aspect.
Aspect Auto	D	Pulse to select the "auto" aspect.
Aspect Zoom2	D	Pulse to select the zoom2 aspect.
Aspect Zoom3	D	Pulse to select the zoom3 aspect.
Aspect Sfull	D	Pulse to select the sfull aspect.
Aspect 14:9	D	Pulse to select the 14:9 aspect.
Channel Up	D	Pulse to increase the channel.
Channel Down	D	Pulse to decrease the channel.
Select Input TV	D	Pulse to select the TV input.
Select Input Analogue TV	D	Pulse to select the ATV input.
Select Input DVB-T	D	Pulse to select the DVB-T input.
Select Input DVB-S	D	Pulse to select the DVB-S input.
Select Input Freesat	D	Pulse to select the Freesat input.
Select Input DVB-C	D	Pulse to select the DVB-C input.

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Select Input Component1	D	Pulse to select the Component1 input.
Select Input Component2	D	Pulse to select the Component2 input.
Select Input Video1	D	Pulse to select the Video1 input.
Select Input Video2	D	Pulse to select the Video2 input.
Select Input Video3	D	Pulse to select the Video3 input.
Select Input S-Video1	D	Pulse to select the S-Video1 input.
Select Input S-Video2	D	Pulse to select the S-Video2 input.
Select Input HDMI1	D	Pulse to select the HDMI1 input.
Select Input HDMI2	D	Pulse to select the HDMI2 input.
Select Input HDMI3	D	Pulse to select the HDMI3 input.
Select Input HDMI4	D	Pulse to select the HDMI4 input.
Select Input PC	D	Pulse to select the PC input.
Select Input SD PhotoViewer	D	Pulse to select the SD PhotoViewer input.
Select Input VIERA CAST	D	Pulse to select the VIERA CAST input.
Picture Mode Vivid	D	Pulse to select the vivid PM.
Picture Mode Standard	D	Pulse to select the Standard PM.
Picture Mode THX	D	Pulse to select the THX PM.
Picture Mode Cinema	D	Pulse to select the Cinema PM.
Picture Mode Game	D	Pulse to select the Game PM.
Picture Mode Photo	D	Pulse to select the Photo PM.
Picture Mode Pro1	D	Pulse to select the Pro1 PM.
Picture Mode Pro2	D	Pulse to select the Pro2 PM.
Menu Open	D	Pulse to open the menu.
Menu Select	D	Pulse to select something in the menu.

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Menu Return	D	Pulse to return to the previous menu screen.
Menu Exit	D	Pulse to exit the menu.
Menu Arrow Left	D	Pulse to move left in the menu.
Menu Arrow Right	D	Pulse to move right in the menu.
Menu Arrow Up	D	Pulse to move up in the menu.
Menu Arrow Down	D	Pulse to move down in the menu.
Menu Option	D	Pulse to select option in the menu.
Menu Red	D	Pulse to press the Red button.
Menu Green	D	Pulse to press the Green button.
Menu Yellow	D	Pulse to press the Yellow button.
Menu Blue	D	Pulse to press the Blue button.
Menu Viera Tools	D	Pulse to open the Viera Tools.
Select CHX	D	Pulse to select a X for the 2 digit channel nr.
Select Enter	D	Pulse to send the channel nr to the unit.
Select Clear	D	Pulse to clear the channel nr.
Request all information	D	Pulse to request all the feedback from the unit.
Request Screen Information	D	Pulse to request the current screen resolution.
From Device	S	Needs to be connected to the RX output of the corresponding RS-232 port.

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FEEDBACK:

Power is On	D	High to indicate that the unit is on.
Power is Off	D	High to indicate that the unit is off.
Mute is On	D	High to indicate that the unit is muted.
Mute is Off	D	High to indicate that the unit is not muted.
Aspect is Auto	D	High to indicate that the current aspect is Auto.
Aspect is Just	D	High to indicate that the current aspect is Just.
Aspect is 4:3	D	High to indicate that the current aspect is 4:3.
Aspect is 16:9	D	High to indicate that the current aspect is 16:9.
Aspect is 14:9	D	High to indicate that the current aspect is 14:9.
Aspect is zoom	D	High to indicate that the current aspect is zoom.
Aspect is zoom2	D	High to indicate that the current aspect is zoom2.
Aspect is zoom3	D	High to indicate that the current aspect is zoom3.
Aspect is Sfull	D	High to indicate that the current aspect is Sfull.
Input is TV	D	High to indicate that the current input is TV.
Input is Analogue TV	D	High to indicate that the current input is Analogue TV.
Input is DVB-T	D	High to indicate that the current input is DVB-T.
Input is DVB-S/Sat	D	High to indicate that the current input is DVB-S/Sat.
Input is Freesat	D	High to indicate that the current input is Freesat.
Input is DVB-C	D	High to indicate that the current input is DVB-C.
Input is Component1	D	High to indicate that the current input is Component1.
Input is Component2	D	High to indicate that the current input is Component2.
Input is Video1	D	High to indicate that the current input is Video1.
Input is Video2	D	High to indicate that the current input is Video2.

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Input is Video3	D	High to indicate that the current input is Video3.
Input is S-Video1	D	High to indicate that the current input is S-Video1.
Input is S-Video2	D	High to indicate that the current input is S-Video2.
Input is HDMI1	D	High to indicate that the current input is HDMI1.
Input is HDMI2	D	High to indicate that the current input is HDMI2.
Input is HDMI3	D	High to indicate that the current input is HDMI3.
Input is HDMI4	D	High to indicate that the current input is HDMI4.
Input is PC	D	High to indicate that the current input is PC.
Input is SD PhotoViewer	D	High to indicate that the current input is SD PhotoViewer.
Picture Mode is Vivid	D	High to indicate that the current picture mode is vivid.
Picture Mode is Standard	D	High to indicate that the current picture mode is Standard.
Picture Mode is THX	D	High to indicate that the current picture mode is THX.
Picture Mode is Cinema	D	High to indicate that the current picture mode is Cinema.
Picture Mode is Game	D	High to indicate that the current picture mode is Game.
Picture Mode is Photo	D	High to indicate that the current picture mode is Photo.
Picture Mode is Pro1	D	High to indicate that the current picture mode is Pro1.
Picture Mode is Pro2	D	High to indicate that the current picture mode is Pro2.
Quality is 480i	D	High to indicate that the current screen resolution is 480i.
Quality is 480p	D	High to indicate that the current screen resolution is 480p.
Quality is 576i	D	High to indicate that the current screen resolution is 576p.
Quality is 576p	D	High to indicate that the current screen resolution is 576p.
Quality is 1080i	D	High to indicate that the current screen resolution is 1080i.
Quality is 1080p	D	High to indicate that the current screen resolution is 1080p.
Volume feedback	A	Analog value containing the value of the current volume.

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Display Channel	A	Analog value containing the channel number to be send to the unit.
To Device	S	Needs to be connected to the TX input of the corresponding RS-232 port.

TESTING:

OPS USED FOR TESTING:	PRO2 4.001.1012 (Feb 17 2009)
SIMPL WINDOWS USED FOR TESTING:	2.11.27
CRESTRON DB USED FOR TESTING:	21.02.018.00
DEVICE DB USED FOR TESTING:	26.05.004.00
SAMPLE PROGRAM:	Panasonic PDP 2010 v1.0 PRO2 DEMO.smw
REVISION HISTORY:	V. 1.0