

Wired Console Controller for ProDVD players

Compatible with the Denon DN-V300

Technical Data

Features

- **Designed for Point-of-Sale, training / educational, museums and presentation applications**
- **Ultra low power consumption from the connected player, no power supply required**
- **Simple connection to ProDVD player external I/O port with removable lead**
- **Features UP, DOWN, START & INFO (menu) buttons**
- **Compact 120x100mm metal frame with 4x M3 stud fixing points**
- **Plug and Play**
- **Water resistant polycarbonate membrane with under surface tactile buttons (buttons and membrane replaceable)**

Description

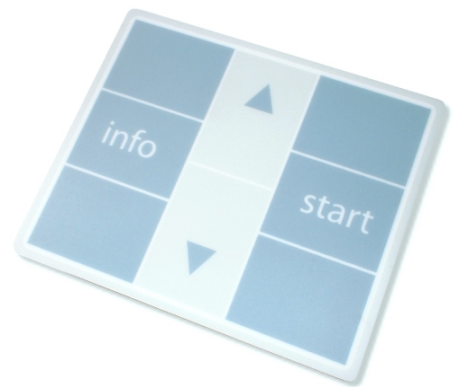
The DVD-DWCC unit permits the control of DVD or VCD media on a Professional DVD player.

Designed for Point-of-Sale, training / educational, museums and presentation applications the unit provides simple control of the media with UP and DOWN menu, START (enter) and INFO (menu) buttons.

The controller is manufactured in 1.5mm aluminium, is designed for surface, under surface or flush fit console mounting, has a polycarbonate button membrane which is water resistant (ie. inadvertent coffee, tea or soft drink spills) and has four (4) M3 stud fixings. The detachable connection cable permits easy installation before cabling.

DVD-DWCC unit

Firmware revision 1.00



Applications

The DVD-DWCC is designed for Point-of-Sale, training / educational, museums and presentation applications.

Custom designed labels and firmware are available for this product, please contact your distributor*.

DVD PERIPHERALS

Selection Guide

Description	Part Number
Wired Console Controller	DVD-DWCC
Individually boxed Product	Order Option #01 with the above referenced part number. The product is shipped in a box , including this DVD-DWCC data sheet.

Note: All products are subject to availability; normal despatch is 10 working days following order date. *Minimum order quantities apply.

Power requirements

The DVD-DWCC is operated from the +5V supply of the connected DVD player. The maximum current draw is 6mA.

The DVD-DWRC interface connection is a standard DB9 male as specified within the V300 player specification.

Serial communication protocol is 9600 Baud, 1 Start bit, 8 Data bits, 1 Stop bits, No parity for all control commands. All I/O is RS232 and TTL compatible.

DVD-DWCC interface

Function	DB9 Male
RTS	8
RXD	3
TXD	2
Ground	5
All other connection are N/C	

DVD control protocol

The DVD-DWCC communicates with the player using the player control protocol **. This protocol takes the form of ASCII command strings of format:

[PC,RC,nn]r

Where nn is a remote control code for the assigned button.

Installation

The DVD-DWCC may be under-surface, surface or flush mounted. For surface and flush mounting a suitable cut-out must be provided, see cutout drawing below, into which the DVD-DWCC can be fitted. Four (4) M3 x 8mm studs are fitted to the rear of the unit, which should locate in the four holes in the panel, and the supplied lock washers and nuts attached to retain the unit.

For flush mounting the console front panel should be 1.8 - 2.0mm thick and a secondary panel should be fitted, incorporating the fixing holes, to provide a fixing for the unit.

For under-surface mounting the unit should be mounted on a secondary internal panel with the unit face being visible through a cut-out in the console front panel.

The supplied player lead can remain unplugged until the unit has been mounted.

Operation

Upon player power-up the DVD-DWCC awaits a button press upon which it sends the following:

▲ button = cursor up

▼ button = cursor down

start button = enter

info button = menu

Custom firmware and front panels for special applications can be manufactured. *

Electrical Characteristics (T_A = 25°C Typical)

Parameter	Minimum	Maximum	Units	Notes
Supply Voltage (RTS)	4.5	9	V	
Supply Current	-	6	mA	
RXData output high level	GND	0.8	V	
RXData output low level	2.4	VCC	V	

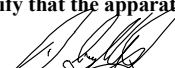
Absolute Maximum Ratings

Parameter	Minimum	Maximum	Units
Supply Voltage (RTS)	-0.5	+10	V

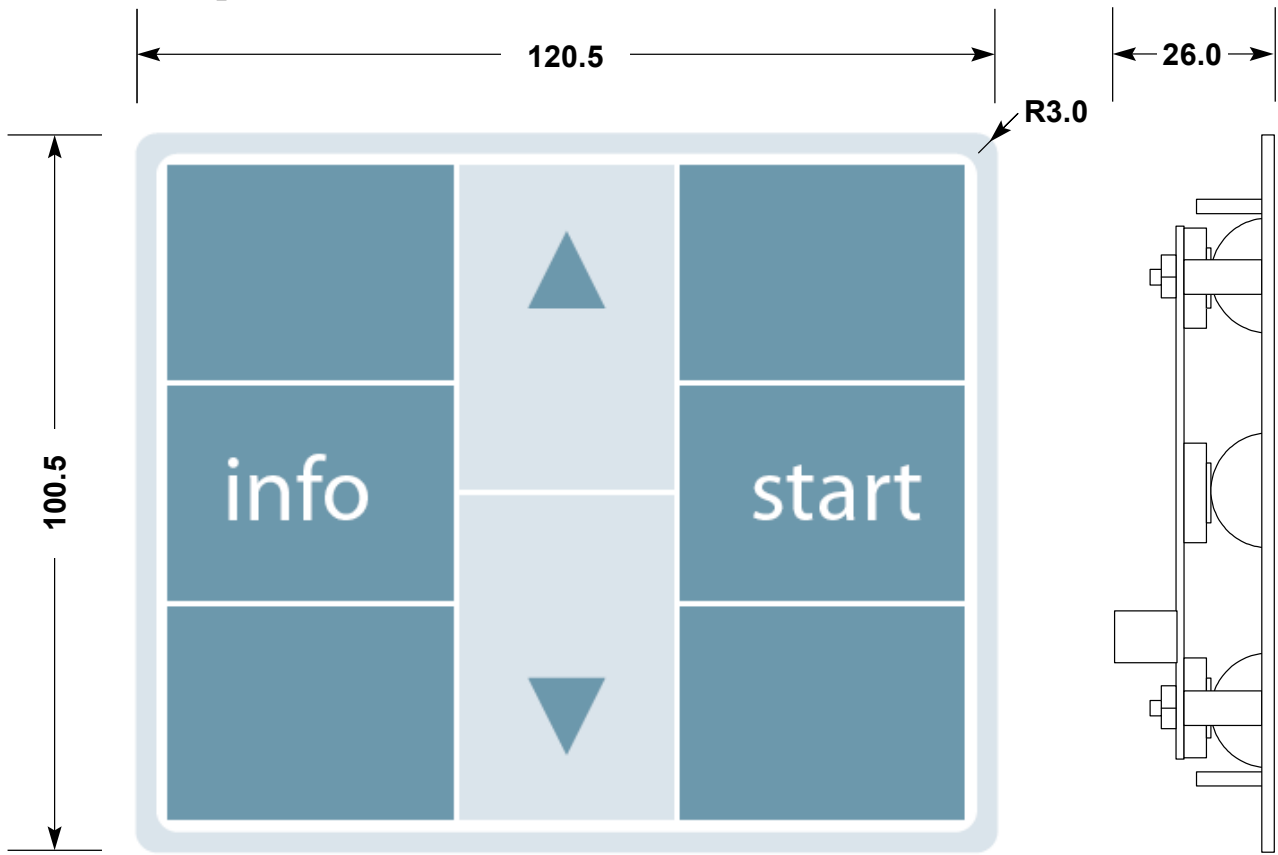
Environmental

Parameter	Minimum	Maximum	Units
Operating Temperature	0	70	°C
Storage Temperature	-10	80	°C
Humidity	0	80	%
Dimensions	See below		
Weight	100g (not including cable)		
Immunity & emissions	EMC compliance to 89/336/EEC		

** See ProDVD technical specification for more information.

<p>Declaration of Conformity Apparatus name / model number DVD-DWCC Conformity via Generic Standard EN50081-1 Generic Standard EN50082-1 Conformity criteria For use only within commercial, residential and light industrial applications We certify that the apparatus identified above conforms to the requirements of Council Directive 89/336/EEC & 73/23/EEC Signed.  Date 1/10/99</p>	<p>Copyright © 1999-2006 by DESIGNER SYSTEMS Co. Manufacturer Designer Systems, 15 Andrew Place, Truro, Cornwall TR1 3HZ, United Kingdom Description of apparatus DVD control device</p>
<p>Having made this declaration the CE mark is affixed to this product, its packaging, manual or warranty.</p> <p>The information appearing in this Operation Note is believed to be accurate at the time of publication. However, Designer Systems assumes no responsibility arising from the use of the information supplied. The applications mentioned herein are used solely for the purpose of illustration and Designer Systems makes no warranty or representation that such applications will be suitable without further modification, nor recommends the use of its products for application that may present a risk to human life due to malfunction or otherwise. Designer Systems reserves the right to alter its products without prior notification. For the most up-to-date information, please visit our web site at http://www.designersystems.co.uk</p>	

Mechanical Specifications – Units millimetres



Mounting cutout detail

Four (4) M3 lock washers and nuts are provided

