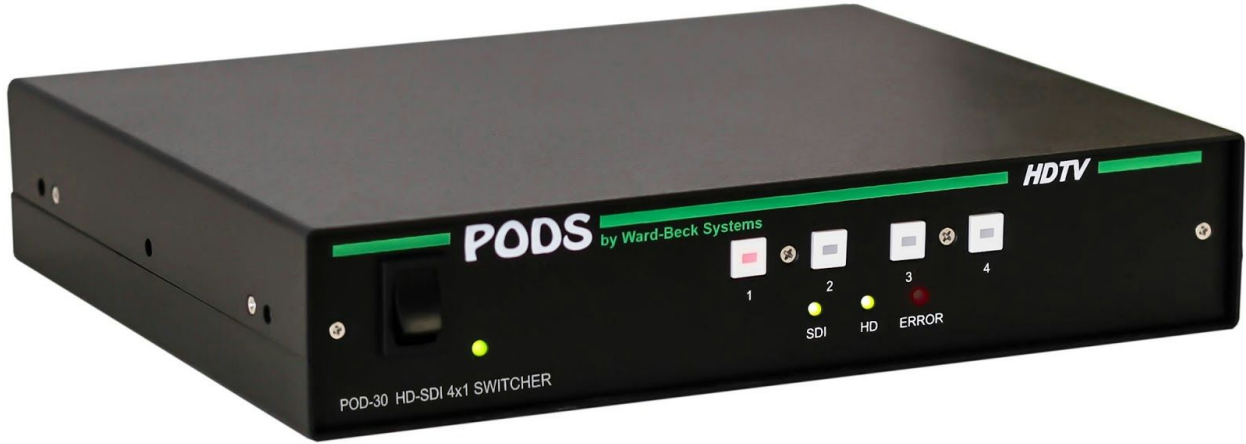


# POD30

4X1 HD-SDI SWITCHER



by Ward-Beck Systems

Rev:Oct.01 2014

# POD30

## 4x1 HD-SDI VIDEO SWITCHER

This is one of many in our line of top quality, low-cost broadcast problem solvers. PODS are compact, rugged and affordable. They are suited for tabletop use or rack-mountable singly or in pairs, in any combination.

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POD30 is a four by one HD-SDI video switcher with remote control capabilities. POD30 may be controlled remotely using its RS485 serial interface. The serial communications are eight bit, no parity at 9600 baud rate. In order to remotely control POD30, two bytes of information must be sent. The first byte is an address byte (ALWAYS F0) and the second byte is the command byte. The communication protocol is detailed on the following page.

There is also a remote control panel available called **POD30R** which connects to the POD30 serial port and provides the same front panel control and status remotely for POD30.

### STATUS TALLIES

The Pod 30 is equipped with three LED status tallies, located on the front panel. The function of these tallies are the following:

GREEN LED	SDI - indicates that the receiver is lock to the incoming digital video signal.
GREEN LED	HD - indicates the 1.485 Gbps sampling rate signals, otherwise the incoming digital video signal is one of 143, 177, 270 or 360 Mbps.
RED LED	ERROR - indicates that the receiver cannot lock to the incoming digital video signal.

### GPI Control Connections

1. Input 1	5. GND
2. Input 2	6. N/C
3. Input 3	7. N/C

### COMMUNICATIONS CONTROL CONNECTIONS(DB9F)

Receive data (3-RX+,8-RX-)
Transmit data (7-TX+,2-TX-)
Ground (5-GND)

4. Input 4 8. N/C

## SPECIFICATIONS

### SDI INPUT

Input Impedance (4) 75Ω  
Input Level 0.8 Vp-p, nominal

### SDI OUTPUT

Output Impedance (2) 75Ω  
Output level 0.8 Vp-p, terminated

### REFERENCE INPUT

Video Input 1 Vp-p, terminated  
Impedance 75Ω unbalanced  
Standards NTSC (PAL - consult factory)

### GENERAL

Power Requirements 100-240 VAC, 50-60 Hz  
Dimensions 8.69" wide x 1.73" high x 7.0" deep  
(221mm x 44mm x 178 mm)  
Weight 1.37 kg (3.01 lbs)

*Ward-Beck Systems Ltd. reserves the right to change performance specifications without prior notice.*

## SERIAL PROTOCOL

### 1) REQUEST STATUS

ACTION: Two bytes are sent  
1st byte 1 1 1 1 0 0 0 0  
2nd byte 0 0 0 0 0 0 0 0

RESPONSE:

1st byte (POD30 Status)  
1 X X X X X X X

[4 3 2 1]

Video Inputs 1 through six  
X=0 Video source not selected  
X=1 Video source selected

2nd byte  
0 0 0 0 0 0 0 0

### 2) SWITCH VIDEO

ACTION: Two bytes are sent  
1st byte 1 1 1 1 0 0 0 0  
2nd byte 1 0 X X X X X X

Video input  
001⇄100(1⇄4)

RESPONSE

POD30 will send back the same status bits as shown in the REQUEST STATUS command.

Note: If switching from SUM MODE send command F0, 80 followed by the desired switch command.

## **WARRANTY**

All Ward-Beck Systems Ltd. products are warranted against defective materials and workmanship for a period of one year from the date of shipment.

Ward-Beck Systems Ltd. will repair or replace, at its option and without charge, all said products or parts thereof which upon factory inspection prove to be defective during the warranty period, provided that:

1. The original serial numbers are intact and have not been tampered with.
2. The purchaser shall return any equipment or parts thereof to Ward-Beck Systems Ltd. only after obtaining prior authorization and shipping instructions from the factory. (Ward-Beck Systems Ltd. reserves the right to inspect or repair equipment on the purchaser's premises).
3. The purchaser assumes the obligation for all expenses in connection with the shipping and return of such goods, once authorization has been obtained.

This warranty does not cover items normally considered expendable, such as fuses and lamps.

This warranty does not cover damages caused by misuse, accident, neglect, unauthorized alteration, repair by unauthorized personnel, or damage caused by an act of God, war, or civil insurrection.

In no event shall Ward-Beck Systems Ltd. be liable for consequential damages. Ward-Beck Systems Ltd. shall have the rights to final determination as to the application of this warranty.

Ward-Beck Systems Ltd. reserves the right, at any time and without notice, to make changes in its equipment, components, specifications or designs, as may be warranted by progress in state-of-the-art technology.

Ward-Beck Systems Ltd. reserves the right to make design changes, additions to, and improvements in its products, without obligation to install such revisions in products previously manufactured.

The warranty set forth herein is in lieu of all other warranties expressed or implied, including the warranties of merchantability and fitness.

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