

General

POD30 is a four by one HD-SDI video switcher with remote control capabilities. POD30 may be used in conjunction with an analog audio switcher (POD2), or a digital audio switcher (POD10) for audio following video applications. When slave mode is engaged, and channel selection on the video switcher will result in the same selection on the audio switcher and vice versa.

POD30 may also 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.

Setup and Installation

Status Tallies

The POD28 is equipped with three LED status tallies, located on the front panel. The function of these tallies are:

- GREEN LED** SDI - Indicates that the receiver is locked to the incoming digital video signal.
- GREEN LED** HD - If illuminated, indicates the input signal is at a sampling rate of 1.485 Gbps otherwise, the signal is one of 143, 177, 270, 360 or 540 Mbps.
- RED LED** ERROR - Indicates that the receiver cannot lock to the digital video incoming signal.

Communications Control Connections (DB9F)

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

Product Specifications

SDI Input

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

SDI Output

Output Impedance (2)	75 ohm
Output level	0.8 Vp-p, terminated
Reference Input	1 Vp-p, terminated

Video Input

Impedance	75 Ohm unbalanced
Standards	NTSC (PAL - consult factory)

General

Power Requirements	115V AC/60Hz (230V AC/50Hz optional)
Dimensions	221mm x 44mm x178mm (8.69"x1.73"x7.0")
Weight	1.37 kg (3.01 lbs)

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]

X=1 SUM switch not activated
 X=1 SUM switch Activated

Video Inputs 1 Through 6
 X=0 Video source not selected
 X=1 Video source selected

2nd byte (POD2 or POD10 status)

0 X X X X X X X
 [4 3 2 1]

X=1 SUM switch not activated
 X=1 SUM switch Activated

Audio Inputs 1 Through 6
 X=0 Video source not selected
 X=1 Video source selected

NOTE: If POD2 or POD10 is not present, the first byte of the response would read 1 0 0 0 0 0 0 0

2) SUM Audio

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

[6 4 3 2 1]

Audio Inputs 1 Through 6
 X=0 Audio source not selected
 X=1 Audio source selected

Response:

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

NOTE: To cancel SUM mode send command F0, 80 (HEX) followed by the desire switch command.

3) Switch Audio and Video

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

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 │ │
 └───┘ Audio Input 0 0 1 – 1 1 0 (1 – 6)
 Video Input 0 0 1 – 1 1 0 (1 – 6)

Response:

POD2 will send back the same status bits as shown in the REQUEST STATUS command.

NOTE: To cancel SUM mode send command F0, 80 followed by the desire switch command.

4) Slave Audio and Video

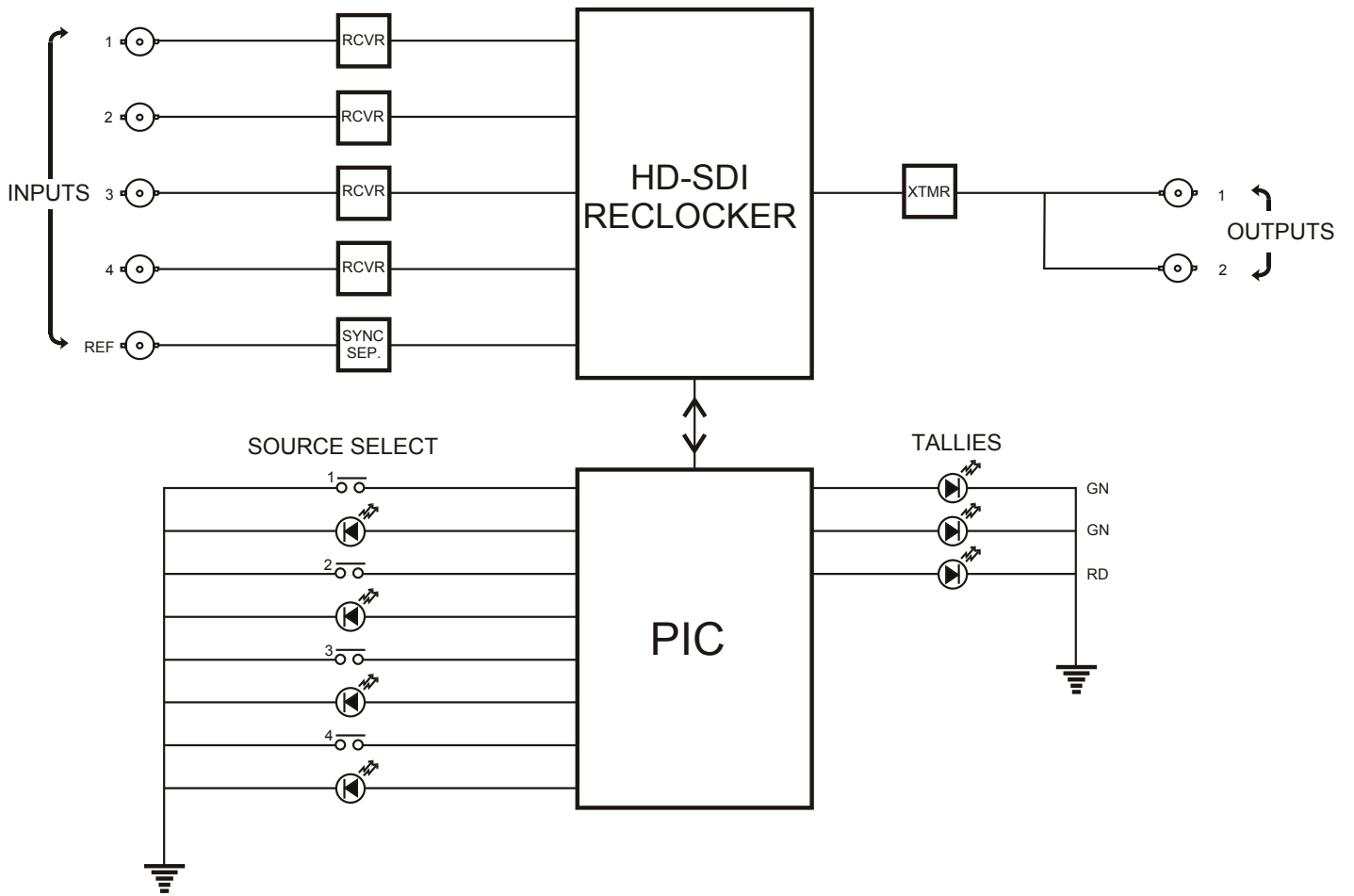
Action: Two bytes are sent
 1st byte 1 1 1 1 0 0 0 0
 2nd byte 0 1 X X X X X X

┌───┐
 │ │
 └───┘ Input 0 0 1 – 1 1 0 (1 – 6)

Response:

POD2 will send back the same status bits as shown in the REQUEST STATUS command.

NOTE: The Slave indicator on POD9 may be turned on by sending the command F0, C0 (HEX) and turned off by F0, C7 (HEX).



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, as its opinion 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 the equipment on the purchaser's premises)
3. The purchaser assumes the obligations 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 warrant does not cover damages caused by misuse, accident, neglect, unauthorized alteration, repair by unauthorized personnel, or damages caused by 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 design, 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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