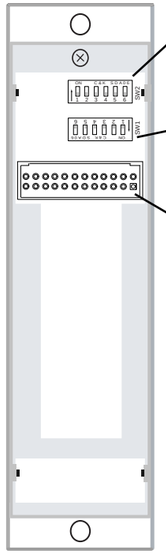
Accessory Panel Connector with Belden 8459 cable (or equiv.)

P1	Signal	Pin	
	Tally Supply	20	RED / GRN
	Tally 1 +	7	WHT / BLK
	Tally 2 +	6	BLU
	Tally 3 +	5	ORG
	Tally 4 +	4	GRN
	Tally 5 +	3	RED
	Tally 6 +	2	WHT
	Tally 1 -	19	BLU / RED
	Tally 2 -	18	ORG / RED
	Tally 3 -	17	WHT / RED
	Tally 4 -	16	BLK / RED
	Tally 5 -	15	BLU / WHT
	Tally 6 -	14	GRN / WHT
	Tally Common	13	RED / WHT
	Opto-Relay Power	24	RED / BLK & WHT
	Switch 1 (Opto-Relay 1)	23	WHT / BLK & RED
	Switch 2 (Opto-Relay 2)	22	BLK / WHT & RED
	Switch 3 (Opto-Relay 3)	21	ORG / GRN
	Switch 4 (Opto-Relay 4)	11	BLU / BLK
	Switch 5 (Opto-Relay 5)	10	ORG / BLK
	Switch 6 (Opto-Relay 6)	9	GRN / BLK
	Opto-Relay Common	8	RED / BLK
	Logic Ground	12	BLK / WHT

REVISIONS

A	RELEASED	RLM	26 JUL 02

REAR VIEW OF PANELS

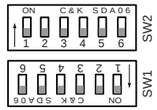


SW2: Tally Voltage Source Switch
ON = From TALLY SUPPLY (pin 20)
OFF = From TALLY (+) (pins 2 - 7)

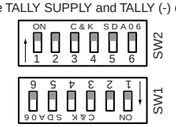
SW 1: Tally Ground Source Switch
ON = From TALLY COMMON (pin 13)
OFF = From TALLY (-) (pins 14 - 19)

J1: Connection to Peripheral Device

DIPSWITCH SETTINGS FOR ACTIVE HIGH LOGIC
(use TALLY (+) and TALLY COMMON connections)



DIPSWITCH SETTINGS FOR ACTIVE LOW LOGIC
(use TALLY SUPPLY and TALLY (-) connections)

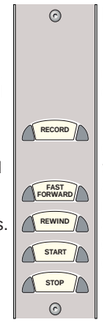


ACCESSORY PANEL NUMBERING AND QUICK APPLICATION DESCRIPTION

PRE99-1193

Five-Button Panel for Eventide Delay Units. (Requires an external power supply.)

Can also be used with most other brand delay units, although not all will offer the same remote features.



PRE99-1194

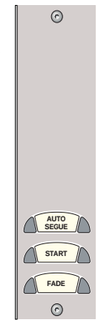
Five-Button Panel for most brand of remote controlled Tape Recorders.

Can also be used with digital editors and hard disk-based playback devices although not all will offer the full remote control features.

PRE99-1195

Four-Button Panel for Prophet Digital Delivery Systems.

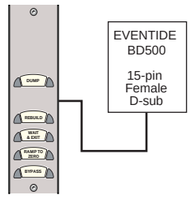
Can also be used with other brand delivery systems, although not all offer the same remote features.

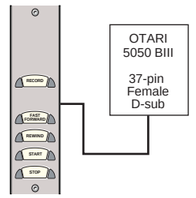


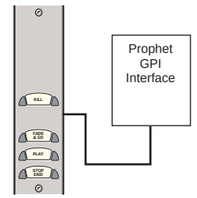
PRE99-1196

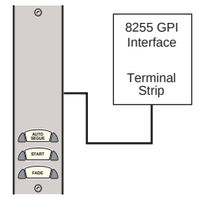
Three-Button Panel for Scott Studios Digital Delivery Systems.

Can also be used with other brand delivery systems, although not all offer the same remote features.





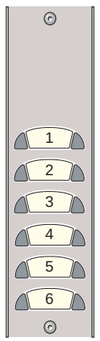




CONNECTOR J1 SIGNAL TABLE

PIN	SIGNAL	DETAILS
1	No Connection	
2	Tally 6 (+ input)	active on all panels
3	Tally 5 (+ input)	active on all panels
4	Tally 4 (+ input)	active on all panels
5	Tally 3 (+ input)	five-button panels only
6	Tally 2 (+ input)	unused in this application
7	Tally 1 (+ input)	five-button panels only
8	Opto-Relay Comm	Switch common
9	Switch 6 output	Bypass, Stop, Stop/End or Fade
10	Switch 5 output	Ramp to Zero, Start or Play
11	Switch 4 output	Wait & Exit, Rewind, Fade & Go or Auto Segue
12	Logic Ground	+ VDC Ground return
13	Tally Common	used with Tally + inputs
14	Tally 6 (- input)	active on all panels
15	Tally 5 (- input)	active on all panels
16	Tally 4 (- input)	active on all panels
17	Tally 3 (- input)	five-button panels only
18	Tally 2 (- input)	unused in this application
19	Tally 1 (- input)	five-button panels only
20	Tally Supply	used with Tally - inputs (+5 to +30 VDC)
21	Switch 3 output	Rebuild or Fast Forward
22	Switch 2 output	unused in this application
23	Switch 1 output	Dump or Record
24	Opto-Relay Power	+5 to +30 VDC to turn on Opto-Relays

Accessory Panel Button & Tally Numbers

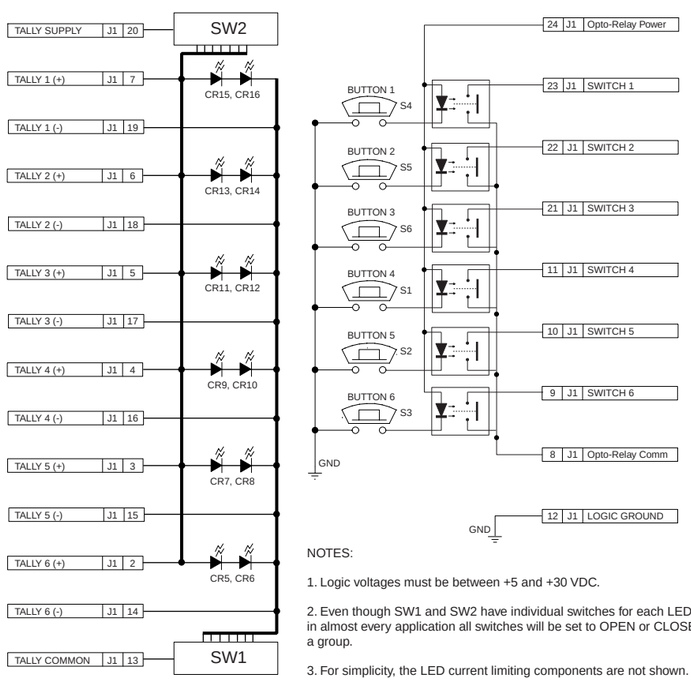


Connector Pinout (viewed from wiring end)

24–PIN

12	24
11	23
10	22
9	21
8	20
7	19
6	18
5	17
4	16
3	15
2	14
1	13

SIMPLIFIED SCHEMATIC



NOTES:

1. Logic voltages must be between +5 and +30 VDC.

2. Even though SW1 and SW2 have individual switches for each LED pair, in almost every application all switches will be set to OPEN or CLOSED as a group.

3. For simplicity, the LED current limiting components are not shown.

ACCESSORY PANEL DESCRIPTION AND INSTALLATION

Each Accessory Panel is 6" long by 1.6" wide. The panels fit into Cabinet Plates (PRE99-1788-1 or -2), a 1.6" Panel Turret (PRE99-1213) or an accessory panel position in a BMXdigital or Legacy console (a PRE99-1100 or -1101 Divider Kit is required to mount an Accesory Panel into a console). A pre-made cable (24-pin connector to pigtails) is available (PRE99-792-CU). Each panel comes with the P1 connector housing and contacts. Refer to drawing 71-792 for details on making up a custom cable.

Each switch output (pins 9, 10, 11, 21, 22, 23) is opto-isolated. Each can be treated as “normally open” relay contact. The relay “common” contact to all the switches is Pin 8. To activate the outputs, Opto-Relay Power (Pin 24) must be connected to an external voltage from +5 to +30 VDC. The supply return (common or ground) goes to Pin 12.

Each Button can be lit (two LEDs are in series with current limiting circuitry) using an active high or an active low logic. Logic voltages from +5 to +30 VDC can be used. Two DIP switches set up the panel for the type of Tally logic signals used. SW2 controls the connections to the TALLY (+) inputs, while SW1 controls the connections to the TALLY (-) inputs.

With Active Low Logic (the peripheral device pulls its Tally outputs to Ground), the peripheral device connects to the TALLY (-) inputs (pins 14 - 19). SW2 switches are all CLOSED and SW1 switches are all OPEN. The Tally supply output (V+ or Lamp Source) is connected to Pin 20.

With Active High Logic (the peripheral device pulls its Tally outputs to V+), the peripheral device connects to the TALLY (+) inputs (pins 2 - 7). SW1 switches are all CLOSED and SW2 switches are all OPEN. The Tally Common output (GND or Lamp Common) is connected to Pin 13.

If a differential Tally signal is used (the peripheral has both Tally (+) and Tally (-) signal outputs), then both SW1 and SW2 are set OPEN. The TALLY (+) inputs connect to the peripheral Tally + outputs and the TALLY (-) inputs connect to the peripheral Tally - outputs. There are no connections to TALLY SUPPLY (pin 20) or TALLY COMMON (pin 13).

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DRAWN: R Maddox	22 JULY 2002
LAST REV BY: R Maddox	26 JULY 2002

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DESIGNS BY PACIFIC RESEARCH & ENGINEERING

TITLE
INSTRUCTION SHEET, 1.6" PERIPHERAL CONTROL PANELS FOR DDS, DELAY, TAPE REMOTE

SIZE	DWG. NO.	REV.
B	71-1193	A

SCALE: NONE

SHEET 1 OF 1