



TallyMan

THE ONLY TALLY SYSTEM YOU'LL EVER NEED

Mixer Connection Details

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Note: In all cases please check pin functions on the mixers as these connections shown might be out of date.

1 GVG Kalypso / Zodiac Mixer

- The cable details in the boxes refer to the cable connectors.
- Incoming tally activity may be observed in TallyMan under **Tools > Tally Mimic**.
- It is possible to read the names tables from the Kalypso into TallyMan.
- For the Zodiac Mixer: The Zodiac does not send M/E bus data (and therefore P/P bus data) on the tally link; unlike the Kalypso.
Aux 1-13 and switched preview only are available, as follows:
Out 1-5 = Aux 1-5
Out 6 = switched preview
Out 41-48 = Aux 6-13

Kalypso Frame

Kalypso serial tallies are only available from the mainframe on connector J12 with version 5.11 or above software.

The cable details are as follows:

TALLYMAN TM1/TM2 CONTROLLER RS-422	TALLYMAN TMC-1 CONTROLLER RS-422		KALYPSO J12 RS-422
D9 Plug	D9 Skt		D9 Plug
3	3		3
8	4		8
4	5	SCN	4
7	2		7
2	1		2
6	5	SCN	6

Inspect the incoming tally activity in TallyMan under **Tools > Tally Mimic** for tally/button association.

Notes

- Use a Baud rate of 38K4.
- It is only possible to read Names from the mixer.
- As of TallyMan release V1.41,
 - Mixer name download into TallyMan .

2. Philips / Thomson / Grass Valley DD35 / XtenDD / KayakDD / KayakHD Mixers

This section describes how TallyMan connects to:

- DD35 Vision Mixers
- XtenDD and XtenHD Vision Mixers
- KayakDD and KayakHD Vision Mixers

There are three ways of communication:

1. ACOS Protocol for Crosspoint Status and Input Names to the panel via RS422
2. Tallies via IP Network
3. Tallies over RS422 (Earlier Winsoft only systems).

2.1 Using only ACOS protocol.

This may be used where **PGM only** tally information is required.

Select **Thomson DD35 (ACOS Protocol)** in TallyMan.

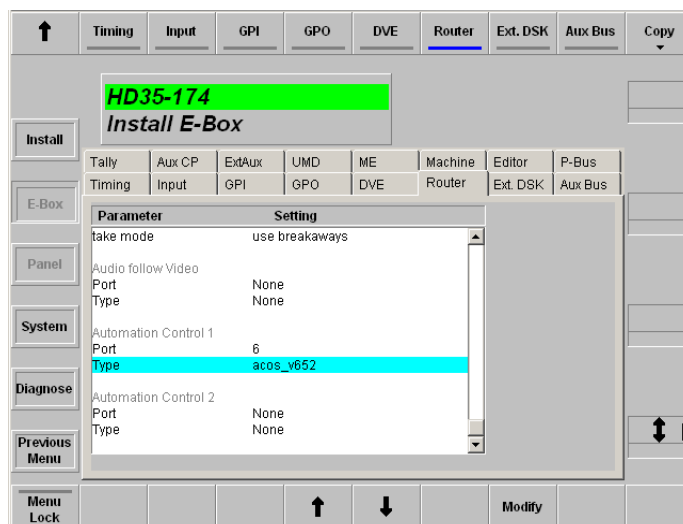
ACOS is also used for downloading names from TallyMan into the mixer panel using the ACOS linking.

In TallyMan it is possible to get mnemonics from the Kayak by ticking the “Enable Import” box under “Configure mixer names”. TallyMan may need to be restarted after doing this in order to refresh the data.

For tallies, an ON System Tally must be set in TallyMan to the PGM bus. The mixer sources will therefore be tallied. Please see the Tallies section on how to set an ON System Tally.

The ACOS protocol is included in the Mixer - this is selected via the Router menu in the Kayak - but may have to be loaded from the Kayak resources disc supplied with the mixer.

For DD35 vision mixers only, a software update may be needed depending on the installed software version.



This pin-out is used for the ACOS router cross-point connections.

The cable details in the boxes refer to the cable connectors.

TallyMan Controller TM1/TM2	TallyMan Controller TMC-1		TMX		KayakDD Mixer
RS422	RS422				RS422
D9 Plug	D9 Skt				D9 plug
2	1	→	TX-	→	2
7	2	→	TX+	→	7
4	5		GND		4
8	4	←	RX-	←	8
3	3	←	RX+	←	3
6	5		GND		6

Communication details.

Baud Rate: 38K4
Data bits: 8
Parity: NONE
Stop bits: 1

2.2. Tallies via a Network

A Parallel I/O module (Add Tally I/O) is available in TallyMan for connection via a TCP/IP link for the tally information. This effectively decodes the Ethernet information.

Formatted: Bullets and Numbering

Add additional I/O for the Green and Yellow tallies from the mixer may be added in TallyMan.

A multicast address must be set in the TallyMan mixer Program Tallies for this to work.

- Go to **Add Tally I/O** in the Mixer module.
- Set the tally Inputs number (typically 40) and press **Configure** and then set the **Serial Parameters**.
- The IP address for the DDxx panel multicast protocol starts 239..... so you need e.g. 239.168.0.70

E.g. If the mixer is at 192.168.0.70 (which is the default when the mixer ships) then the Multicast address for TM is 239.168.0.70.

Note: IP addresses: 192.168.0.71 ... 73 are also used by the mixer components.

TallyMan's default IP address from the factory is 192.168.100.220. It must be changed to match the mixer IP group .e.g. set the TMx to 192.168.0.220, if tallies are required to be sent to the Mixer.

Note: The *Internet Assigned Numbers Authority (IANA)* controls the assignment of IP multicast addresses. It has assigned the old Class D address space to be used for IP multicast. This means that all IP multicast group addresses will fall in the range of 224.0.0.0 to 239.255.255.255.

Notes:

- Mixer label update is supported using the ACOS DD35 link. as of TallyMan release V1.41
- Support for KayakDD IP Tally out to mixer. As of TallyMan release V1.41
- Yellow tally is always assigned to the Preview in the Kayak
- Green tallies are supported from TallyMan version 1.55
- PGM tallies are not sequential from the larger mixers. They go from 1 – 32 then 41 onwards for mixer source 33 etc.

Winsoft-only systems**DD configuration for serial tally over RS422. Winsoft ONLY.****This is used for earlier Winsoft only systems**

Select **Install EBox** in the DD set up.

In the first (top) module on the screen select **Stand Alone** and then select the port that will be used to communicate with the TSL Winsoft System Controller. This could be Port 1.

Initially, make sure that the Red, Green and Yellow tally boxes on the screen do not have any addresses set when selected.

For PGM Tallies

Only the **Red** tally box must have addresses set.

Under the Box headings across the screen select:

- Box 1 set the address to 0F000000 for tallies 1 – 40
- Box 2 set the address to 0F000001 for tallies 41 – 80

Box 1.

It will be seen from the DD35 manual that numbers 0 – 31 correspond to DD35 prime tally output functions 1 – 32.

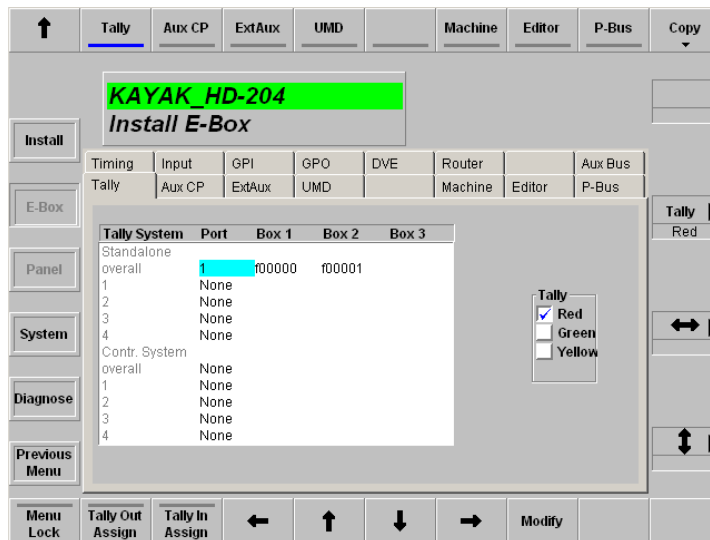
DD35 tallies 32 – 39 are other tallies. Note that tally 32 (Mon Tally Main), for example, will always be on as long as the Red PGM tallies are enabled.

Box 2.

It will be seen that numbers 0 – 15 correspond to DD35 prime tally out numbers 33 – 48.

Box 3.

Inputs > 48



For PST Tallies

The **Yellow** tally box is for setting the PST tally addresses.

Under the Box headings across the screen select:

- Box 1 set the address to 0F000002 for tallies 1 – 40
- Box 2 set the address to 0F000003 for tallies 41 – 80

Notes

1. The screen will not display the leading 0 for the address.
2. Green tallies are user assignable tallies.

3 Sony DVS 6000 / 7000 / 8000 / 9000 / MFS-2000 Series Mixers

- The cable details in the boxes refer to the cable connectors.

The wiring of the connection cable is shown below.

TALLYMAN TM1/TM2 RS-422	TALLYMAN TMC-1 CONTROLLER RS-422		DVS 6000/7000/8000 RS-422
D9 Plug	D9 Skt		D9 Plug
3	3		3
8	4		8
4	5	SCN	4
7	2		7
2	1		2
6	5	SCN	6

The serial data runs at 38K4 baud, 8 data, odd parity and 1 stop bit. There is no method of changing this in the mixer.

128 tallies are available. The mixer manual will need to be checked for the meaning or function of the tallies.

- » It is recommended that the Router / Tally Mimics in the TallyMan program is used to determine correct operation

The bus numbers / function are as follows:

BUS NUMBER	FUNCTION	BUS NUMBER	FUNCTION
1	PGM	13	AUX 5
2	PST	14	AUX 6
3	ME 1A	15	AUX 7
4	ME 1B	16	AUX 8
5	ME 2A	17	AUX 9
6	ME 2B	18	AUX 10
7	ME 3A	19	AUX 11
8	ME 3B	20	AUX 12
9	AUX 1	21	AUX 13
10	AUX 2	22	AUX 14
11	AUX 3	23	AUX 15
12	AUX 4		

Note

On smaller mixers (e.g. DVS 7150 / 7151) ME 3A / ME3B is the PGM / PST row - but it varies between models.

Outline DVS-9000 setup overview – please read in conjunction with the Sony Installation Manual.

Under "Router/Tally" menu:

Router panel

- Select **Compact**

SWR1 must be defined as follows:

- SWR1 128x128 Source 1 Dest 1 Level 1
- Press **tally load**

Tally Enable panel

- Set **Enable** for PGM physical output(s). Choices are **Disable/Enable/Tally Input** (from DCU)

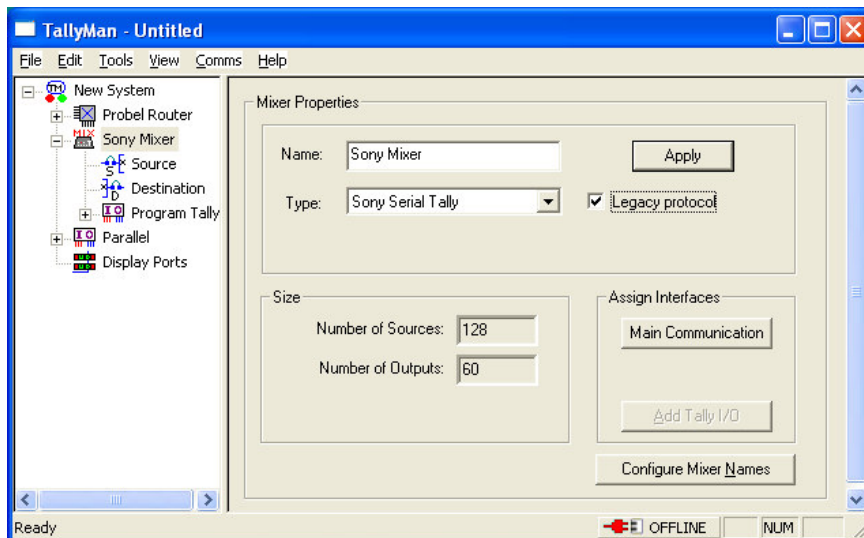
Serial Tally panel

- Set R1 for the relevant port.

It is possible to get the serial tally information from two types of ports, "Editor" on the MKS unit and "Serial Tally" on the DCU unit.

If no GPI I/Os are needed, the DCU is not mandatory. However the routing and serial tally information is only available from DCU ports. MKS ports give only tally status.

Note: For older mixers where the router information may be off set by 1.



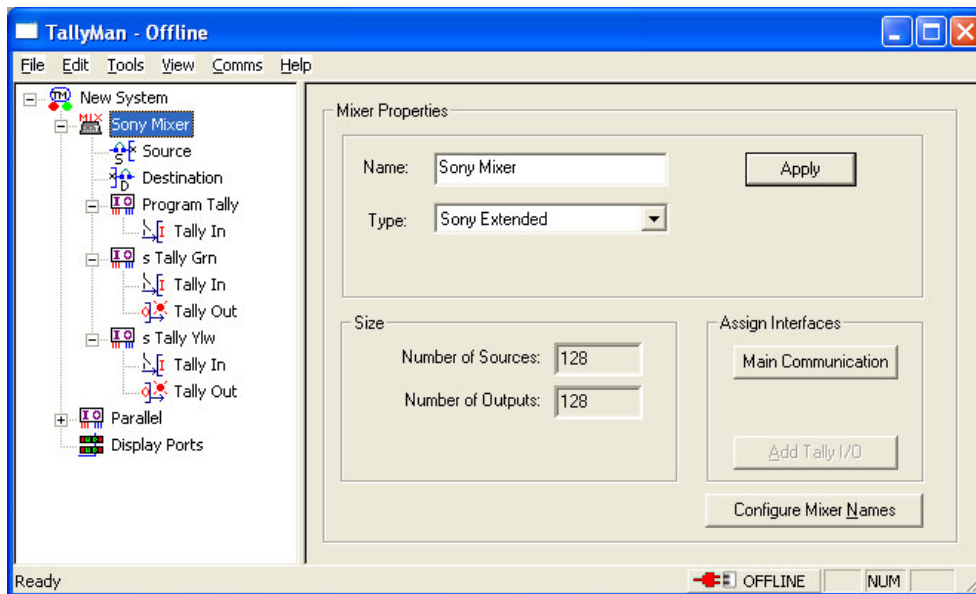
- Check the Legacy Protocol box.

Sony MFS-2000

Use a crossover RS422 cable for this mixer connection.

TALLYMAN TM1/TM2	TALLYMAN TMC-1 CONTROLLER				SONY MIXER
RS422	RS422				RS422
D9 Plug	D9 Skt				D9 plug
2	1	→	TX-	→	8
7	2	→	TX+	→	3
4	5		GND		4
8	4	←	RX-	←	2
3	3	←	RX+	←	7
6	5		GND		6

Use **Sony Extended** in TallyMan when you need to use other groups of tallies from Sony Mixers.



The Sony Mixers can generate a number of tally groups normally group R1 is used.

The "Green" level in TallyMan refers to Sony group G1, and the "Yellow" level refers to group R2.

In the Sony Mixer setup, a group (R1, G1 etc) is associated with an output.

R1 should always be Program.

G1 will probably need to be set to the M/E bank that the second desk is controlling, for example.

4 Snell: Kahuna / Golden DaVE Mixer

Kahuna

The Kahuna mixer uses GVG Kalypso protocol.

Names into the desk:

Protocol : TSL UMD (Input Only)

Description: Receive UMD messages and display sources names on Kahuna Mnemonics.

Advice from Snell:

It is possible to overwrite source names on the Kahuna; however it's done under router control as it's normally a router that would do this.

This is what you need to do to setup the TSL (IN) protocol on Kahuna.
In ENG Config - Protocols setup one of the serial ports to be TSL UMD (Input)
Apply and re-save the ENG config.
Go to Perith menu
go to Router Control
select Physical Connections
Select the Port where the protocol was setup
Then for each input set the UMD address required.
Re-save the User Config to save these settings

You will then need to enable router overwrite for the sources required.
This is done in ENG Config - source - - source names, then select the source required and set "Router Overwrite" to yes.

Re-save the ENG config.

Golden DaVE

This unit uses RS422 connections.

Set the desired serial port on the HD/Golden DaVE to "**S&W Tally**" using the **Config-System-Port_Protocols** menu.

TALLYMAN TM1/TM2 RS-422	TALLYMAN TMC-1 CONTROLLER RS-422		GOLDEN DAVE RS-422
D9 Plug	D9 Skt		D9 Plug
3	3		3
8	4		8
4	5	SCN	4
7	2		7
2	1		2
6	5	SCN	6

RS 422/485 CONNECTIONS

CONTROLLER	DEVICE	D9
TX +	RX +	3
TX -	RX -	8
RX +	TX +	7
RX -	TX -	2
TX COMMON (0V)	RX COMMON (0V)	4
RX COMMON (0V)	TX COMMON (0V)	6
FRAME GROUND		1 & 9

Notes

The HD/Golden DaVE mainframe has four RS-422 serial ports. Each serial port can run any protocol.

The hardware allows each serial port to be separately configured as a Controller or Device, as required.

The user selects which protocol is present on which port using the switcher's **Config-System-Port_Protocols** menu.

When the user selects "**S&W Tally**" on a port, that port is automatically configured by the software to be wired as a Controller.

5 Philips/BTS Saturn Mixer

- The cable details in the boxes refer to the cable connectors.
- Serial tally information from the mixer/switcher is usually plugged into a Comms Port on the TallyMan Controller for decoding to parallel information.

The Automation Port on the Saturn frame should be used.

Depending on the configuration, the following cables should be made up and tested.

TALLYMAN TM1/TM2	TALLYMAN TMC-1 CONTROLLER				BTS MIXER
RS422	RS422				RS422
D9 Plug	D9 Skt				D9 plug
2	1	→	TX-	→	8
7	2	→	TX+	→	3
4	5		GND		4
8	4	←	RX-	←	2
3	3	←	RX+	←	7
6	5		GND		6

TALLYMAN TM1/TM2	TALLYMAN TMC-1 CONTROLLER				BTS MIXER
RS422	RS422				RS422
D9 Plug	D9 Skt				D9 plug
2	1	→	TX-	→	2
7	2	→	TX+	→	7
4	5		GND		4
8	4	←	RX-	←	8
3	3	←	RX+	←	3
6	5		GND		6

6 GVG M2100 Mixer

- The cable details in the boxes refer to the cable connectors.
- In TallyMan be sure to set priority numbers for the active Router Buses.

TALLYMAN TM1/TM2 RS-422	TALLYMAN TMC-1 CONTROLLER RS-422		GVG 2100 RS-422
D9 Plug	D9 Skt		D9 Plug
3	3		3
8	4		8
4	5	SCN	4
7	2		7
2	1		2
6	5	SCN	6

The UMD System Controller is fitted with an RS422 port on Control 2 for the interface.

The GVG M2100 connector is the Expansion Port connector, J23, with the serial tally module suitably configured.

Tally 1 – 16	Primary sources.
Tally 17	Key 1
Tally 18	Key 2
Tally 19	Key 3
Tally 20	Key 4
Tally 21	“Squeeze Back”
Tally 22	Fade to Black
Tally 23	Bypass
Tally 24	-
Tally 25	Matte

Virtual Router information:

Bus 1	PGM
Bus 2	PST
Bus 3	Aux 1
Bus 4	Aux 2
Bus 5	Aux 3
Bus 6	Aux 4

Communication details.

- 38K4 baud
- 8 bits
- No parity
- 1 stop bit

7 FOR-A

This mixer provides only a tally stream so the tally data is accessible via a Parallel I/O.

