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

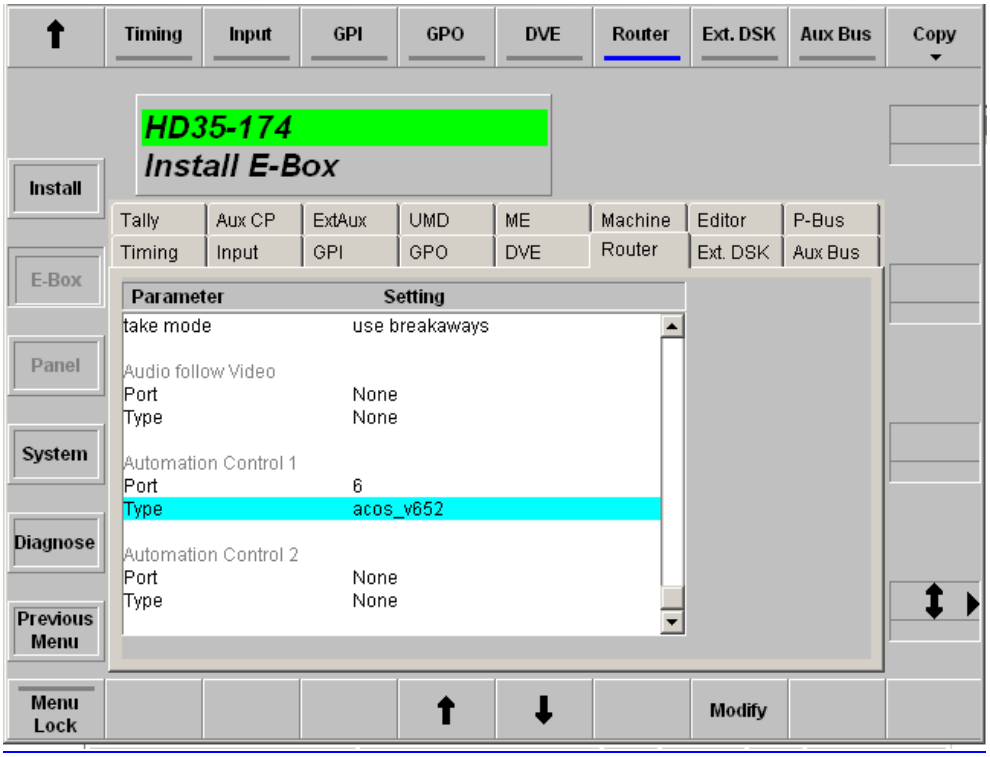
1. ACOS Protocol for Crosspoint status and Input Names via RS422
2. Tallies and Input Names via IP Network
3. Tallies over RS422

2.1 Using only ACOS protocol.

In TallyMan, an ON System Tally may be set to the PGM bus. The sources will therefore be tallied.

The ACOS protocol is included in Mixer. Only for DD35 vision mixers a software update may be needed depending on the installed software version.

A port must be assigned for ACOS this function in the DD set-up.



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

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

TallyMan Controller TM1/TM2	TallyMan Controller TMC-1				Kayakdd 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

Communication details.

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

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2.2. Tallies and Names Via Network

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For downloading of names from TallyMan into the mixer use the TCP/IP linking.

- A Parallel I/O module is available in TallyMan for connection via a TCP/IP link for the tally information.
- 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 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 is 192.168.0.100. That can be changed if needed.

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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.

2.3 DD configuration for serial tally over RS422.

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

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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 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

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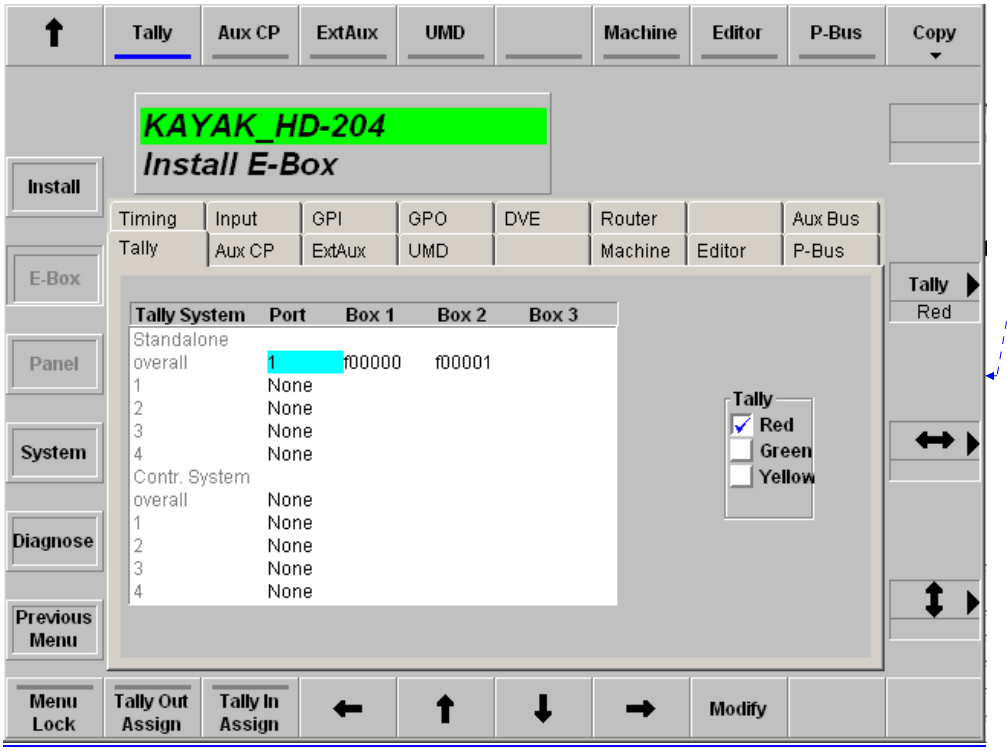

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For PST Tallies

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.