

# TR-3200A

## Tally Data Routers

The TR-3200A Tally router is used in conjunction with a video or audio router. It routes tally inputs from, for example, a vision mixer and processes them according to the current settings of the main signal router.

The Tally router provides up to 32 tally outputs to feed tally or cue lights on cameras, called reverse tally, or Under Monitor Displays (UMDs), called forward tally. The TR-3200A supports serial tallies from a variety of vision mixers.

### ►Features & Benefits

#### Configuration

The TR-3200A is housed in a 1RU frame.

Four 16 input ports are used to read up to 64 tally inputs. They are processed by software in conjunction with the current matrix settings to provide 32 tally outputs to feed camera tally or cue lights using relay contacts; two wires are provided for each relay to ensure electrical isolation from the outside world and between individual relays.

#### Control

TR-3200A includes, as standard, an internal FU-0003 Controller module which supports a single Q-Link and Serial port on the rear of the router. The optional internal CI module can be fitted to the TR-3200A to increase the number of Q-Link and Serial ports.

The TR-3200A has a number of control options, they are:

**Remote Control Panel** Any panel(s) from the entire range of Quartz remote control panels can be used with the TR-3200A router connected via Q-Link.

**External third party control** The TR-3200A router can be remotely controlled via an external third party control device, such as an automation system, when connected to the routers serial port.

#### Expansion

Two TR-3200A Tally routers can be used together to form a 64x64 tally router by looping the mixer tallies to both units.

#### Power Supply

The power supply for the TR-3200A is internal. A redundant power supply can not be fitted to the TR-3200A.



### ►Specifications

#### Read Ports (Inputs):

Input: < 0.8V for logic low  
> 3.5V or open circuit for logic high  
Connectors: D25 female  
Four for inputs, each with 16 lines

#### Tally Ports (Outputs):

Normally open contacts:  
Gold over silver palladium  
Contact resistance: 1Ω max.  
Operate/Release time:  
10ms max.  
Contact rating:  
0.5A @ 24V DC resistive load  
0.15A @ 100V rms. AC  
Service Life:  
1.0x10<sup>6</sup> at low load  
0.5x10<sup>6</sup> at full load  
Connectors: D25 female  
Four for outputs, each with 8 relays

#### Control:

Q-link to remote panels:  
1 as standard (additional 3 Q-links with CI-0004 option) 75Ω video cable 500m max. length  
Serial RS-232/RS-422: 1 as standard (additional port with CI-0001 or CI-0004 option)

#### Power:

Supply: 100-240V, 50/60Hz  
Consumption: 15W

#### Physical:

Height: 1RU, 44mm (1.75" nom.)  
Width: 19" rack mount  
Depth: 11" (280mm)  
Weight: 2.5kg  
Operating Temp: 0-40°C  
Ventilation Natural: convection

### ►Ordering Information

Please refer to Application Note AN-0010 for further information on the operation of the TR-3200A Tally Router.

TR-3200A	64x32 Tally Router, 1RU unit, relay tally outputs
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#### Ordering Options

AK-0005	Mating D25 Connectors, all male type, one required for each port, eight needed for full system.
CI-0001	Sub-module that enables a second RS-232/RS-422 serial port.
CI-0004	Multi Q-Link Card (Fits inside frame to add up to three Q-Link ports and one RS-232/RS-422 port)