



Sony FR7 PTZ Camera Tally Light triggering with CueScript CSMV2 Monitors and CSCN CueNumbers Guide



Overview

CueScript CSM monitors with built-in CueLight functionality and CueScript CSCN CueNumbers are normally triggered using the supplied optical tally sensor. The sensor is attached directly to a camera tally light and connected to the device's **Tally Sensor IN** connector.

The Sony FR7 camera features integrated dual tally light arches on either side of the lens. Due to their shape and location, it is not practical to mount the standard CueScript optical tally sensor directly onto the camera.

As an alternative, the Sony FR7 GPIO tally outputs can be connected directly to the CueScript **Tally Sensor IN** input using a custom cable.

This method is compatible with:

- CueScript CSM monitor range with built-in CueLight
- CueScript CSCN CueNumbers

Both product families use the same tally input interface.

Principle of Operation

The CueScript **Tally Sensor IN** connector is designed to accept the standard optical tally sensor. Internally, the optical sensor activates the tally input by creating a connection between the Sensor Input and Ground.

The Sony FR7 provides open-drain tally outputs via its OPTION connector. When tally is active, the selected tally output is pulled to ground, allowing it to emulate the operation of the CueScript optical sensor and directly trigger the tally input.

Requirements

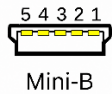
- Sony FR7 camera
- CueScript CSM monitor or CSCN CueNumber
- Custom cable with:
 - USB Mini-B plug (CueScript device end)
 - RJ45 plug (Sony FR7 OPTION connector end)

CueScript Tally Sensor IN Connector

USB Mini-B Pinout

Pin	Function
1	Sensor Input
5	Ground

Only Pins 1 and 5 are required for this integration.

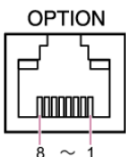


Mini-B

Sony FR7 OPTION Connector

The Sony FR7 OPTION RJ45 connector provides tally GPIO outputs.

Pin	Function
3	Green Tally Output
6	Red Tally Output
4 & 5	Camera Ground



Refer to Sony documentation for the complete OPTION connector pinout and ground pin assignment.



Wiring

Note: CueScript devices support a **single tally indication only**. Customers should therefore connect either the **Red Tally output (typical)** or the **Green Tally** output from the Sony FR7, depending on the desired operation. Connecting both tally outputs simultaneously is not supported.

Red Tally

CueScript Device	Sony FR7
USB Mini-B Pin 1 (Sensor Input)	RJ45 Pin 6 (Red Tally)
USB Mini-B Pin 5 (Ground)	RJ45 Pin 4 & 5 (Camera Ground)

Green Tally

CueScript Device	Sony FR7
USB Mini-B Pin 1 (Sensor Input)	RJ45 Pin 3 (Green Tally)
USB Mini-B Pin 5 (Ground)	RJ45 Pin 4 & 5 (Camera Ground)

Operation

When the selected Sony FR7 tally output becomes active, it is pulled to ground internally by the camera.

This creates the same electrical condition as the standard CueScript optical tally sensor, causing the CueScript device to illuminate its tally indicator.

Only one tally output (Red or Green) should be connected to the CueScript tally input at any given time.