



OPEN COLLECTOR TALLY INTERFACE

# Datavideo Switchers Tally Interface

Real-time red/green camera tally from your Datavideo switcher to Ikan tally lights — up to four cameras, plug-and-play.



**TI-OC-DAT-25-4**    TI-CBL-OC-DAT-25    DB25

**TI-OC-DAT-15-4**    TI-CBL-OC-DAT15    DB15

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This manual covers both Datavideo bundle variants. Setup is identical except for the switcher cable and the model-specific notes in Section 6 and Appendix A.

# 1 · Introduction

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The Ikan Open Collector Tally Interface connects your Datavideo switcher's tally system directly to Ikan tally lights. When you switch cameras, the matching light turns red on air and green on preview, so talent and crew always know which camera is live — with no extra software, custom wiring, or IP setup.

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## Tally, briefly

A tally system shows which camera is **live** and which is **next**. By convention, **red** means the camera is on program (on air) and **green** means it is on preview. Datavideo switchers output both colors automatically on their TALLY port, so no switcher menu setup is needed.

## Who it's for

Datavideo switcher owners in broadcast, corporate AV, house of worship, education, and live-event production who want reliable hardware tally for up to four cameras per interface.

### THIS MANUAL COVERS

Both Datavideo bundles — the DB25 variant (TI-OC-DAT-25-4) and the DB15 variant (TI-OC-DAT-15-4). Setup differs only in the included cable and a few model-specific notes, all called out in Section 6.

## 2 · What's in the Box

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Each Datavideo bundle ships as a single carton. Confirm all three items are present before installation.

<b>1 × TI-OC-U interface</b>	Open Collector Tally Interface — black ABS enclosure, DB9 female input, four RJ45 outputs (OUT 1-4).
<b>1 × TI-CBL-OC-DAT-25</b>	3-ft DB9-to-DB25 tally cable — DB25 switchers (bundle TI-OC-DAT-25-4)
<b>1 × TI-CBL-OC-DAT15</b>	3-ft DB9-to-DB15 tally cable — DB15 switchers (bundle TI-OC-DAT-15-4)
<b>1 × Power adapter</b>	5VDC 750mA wall adapter with barrel-jack connector.

### WHICH CABLE IS IN MY BOX?

Your bundle includes **one** switcher-specific cable that matches your Datavideo switcher's tally connector. Match the SKU on the carton label to the table above, then confirm your switcher model in Section 6.

## 3 · Hardware Overview

The interface is intentionally simple: one tally input from your switcher, four identical tally outputs to your Ikan tally lights.



Black ABS enclosure, 105 x 78 x 40 mm - Ikan logo - "TALLY INTERFACE" - "MADE IN USA"

TI-OC-U interface — output side (four RJ45 jacks) and input side (5VDC power + DB9 tally input).

### Input side

- **DB9 female (INPUT)** — accepts the switcher tally signal through the included DB9-to-DB25 (or DB9-to-DB15) cable.
- **5VDC barrel jack** — connect the supplied power adapter here.

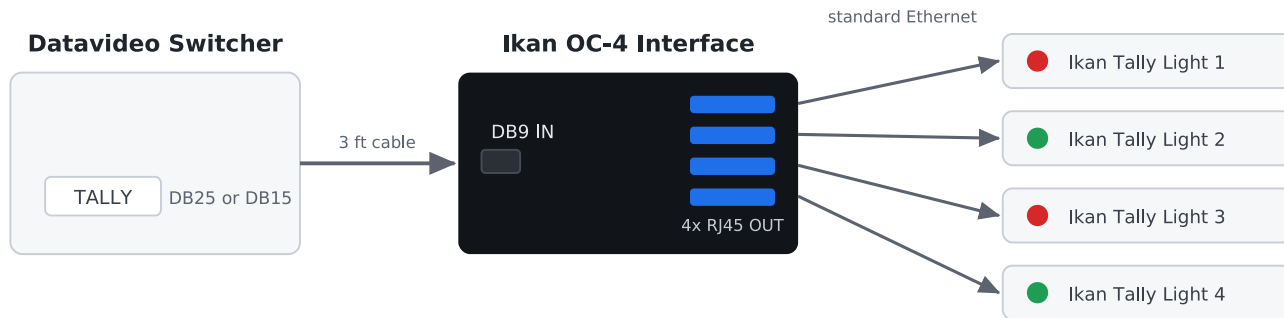
### Output side

- **Four RJ45 jacks (OUT 1-4)** — one per camera position. Run a standard Ethernet cable from each output to an Ikan tally light.
- Outputs carry both program (red) and preview (green) tally for their channel.

<b>Enclosure</b>	Black ABS plastic, 105 × 78 × 40 mm (4.13" × 3.07" × 1.57")
<b>Markings</b>	White silk-screen — Ikan logo, "TALLY INTERFACE", "MADE IN USA"
<b>Tally protocol</b>	Open collector

## 4 · How It Works

The interface taps the tally signal your Datavideo switcher already produces and distributes it to up to four Ikan tally lights over ordinary Ethernet cable — no software, drivers, or network configuration.



● Program / live (red)   ● Preview / next (green)   ● Transition (amber)

Signal path: switcher tally output → 3-ft switcher cable → OC-4 interface → four Ethernet runs → Ikan tally lights.

Each output corresponds to one camera. When a camera is taken to **program** the matching light turns **red**; when it is selected on **preview** the light turns **green**. During a mix or wipe a switcher may briefly assert both, which appears as an **amber** (red + green) indication.

### OPEN COLLECTOR, IN ONE LINE

An open-collector tally output switches each signal to ground to turn a light on. It is fast and low-current — ideal for live production — and shares a common ground with the switcher, which is why the OC-4 connects directly to the dedicated Datavideo tally port.

## 5 · Installation & Quick Start

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Most Datavideo installations are running in a few minutes. Follow these steps, then complete the switcher-side setup in Section 6.

- 1 Connect the switcher cable.** Plug the included DB9-to-DB25 (or DB9-to-DB15) cable into the OC-4 **DB9 INPUT**, and the other end into your Datavideo switcher's **TALLY** port. Seat both connectors fully and hand-tighten the thumbscrews.
- 2 Connect power.** Plug the 5VDC adapter into the OC-4 barrel jack and into a wall outlet or power strip.
- 3 Run Ethernet to your tally lights.** Connect a standard Ethernet cable from each output — **OUT 1-4** — to an Ikan tally light. Use one output per camera position.
- 4 Match outputs to cameras.** OUT 1 should feed the light for the camera on the switcher's tally channel 1, OUT 2 for channel 2, and so on. Keep this mapping consistent across your studio.
- 5 Configure the switcher (if required).** Complete the Datavideo tally setup in Section 6. Datavideo switchers need no menu setup; Roland and Ross switchers may require you to confirm or assign tally outputs.
- 6 Test.** Take each camera to program and confirm the matching light turns red; select it on preview and confirm green. See Section 7.

### MORE THAN FOUR CAMERAS?

Each interface drives up to four Ikan tally lights. For larger studios, use an additional interface fed from a second tally output on your switcher, or contact Ikan about IP-based tally distribution.

## 6 · Datavideo Switcher Tally Setup

Datavideo switchers output tally **automatically** on a dedicated TALLY port as a bi-color (red/green) open-collector signal — red for On-Air (program) and green for preview/next. There are no tally menu settings to enable, so setup is simply connecting the correct cable.

### Which cable does my switcher use?

Tally connector	Bundle / cable	Switcher models
D-sub 25-pin (DB25)	<b>TI-OC-DAT-25-4</b> TI-CBL-OC-DAT-25	HS-2600, HS-3200, HS-4000, SE-2600, SE-2600MU, SE-3200, SE-4000, SE-4000MU
D-sub 15-pin (DB15)	<b>TI-OC-DAT-15-4</b> TI-CBL-OC-DAT15	HS-1200, HS-1300, SE-500, SE-600, SE-650, SE-700, SE-1200MU, SE-2000, SHOWCAST 100

### Setup — DB25 models (example: HS-3200)

The HS-3200 provides bi-color tally on a D-sub 25-pin female TALLY OUT port (rated max DC 24V / 50mA). A red indication marks the source on Program; green marks the source on Preview.

- 1 Locate the **TALLY OUT** (D-sub 25-pin) port on the rear of the switcher.
- 2 Connect the **TI-CBL-OC-DAT-25** cable from the OC-4 **DB9 INPUT** to the switcher's TALLY port.
- 3 No menu configuration is required — the tally output is always active.
- 4 Power on and select sources: the program source drives **RED**, the preview source drives **GREEN**.

### Setup — DB15 models (example: SE-700)

The SE-700 provides the same bi-color tally on a D-sub 15-pin female port — red = On-Air, green = next source. Follow the identical steps using the **TI-CBL-OC-DAT15** cable.

#### ALL DATAVIDEO MODELS BEHAVE THE SAME

Every model listed above outputs automatic bi-color tally — connect the matching cable and you are done. The same TALLY signal that feeds Datavideo's ITC-100 talkback and TLM monitors is what the OC-4 uses.

### Not covered by this release

Two legacy Datavideo switchers use different tally connectors and are not supported by these cables: the **SE-1000** (9-pin / DB9 tally) and the **SE-3000** (37-pin / DB37 tally). Contact Ikan if you need tally for either.

## 7 · Verifying Operation

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With the switcher configured and lights connected, confirm correct behavior before going live.

Switcher action	Expected tally light
Camera taken to Program (on air)	<b>RED</b> on that camera's light
Camera selected on Preview / Next	<b>GREEN</b> on that camera's light
Mix / wipe transition in progress	Brief <b>amber</b> (red + green) on the sources involved
Camera not selected on any bus	Light off

### DATAVIDEO IS AUTOMATIC

There are no tally menu settings to enable. If a light shows red but never green, confirm the switcher is actually selecting that camera on the Preview bus.

## 8 · Troubleshooting

Symptom	Check
No tally lights at all	Confirm the 5VDC adapter is connected and powered. Re-seat the DB9 cable at both ends. Verify the cable matches your switcher's tally connector (Section 6) and that the switcher's tally output is active.
Red works, but no green (preview)	Datavideo outputs preview (green) automatically — confirm you are selecting the camera on the Preview bus and that the correct DB15/DB25 cable is fitted.
Only some outputs work	Swap the Ethernet cable and the tally light to isolate the fault. Confirm the camera is assigned to that tally channel on the switcher.
Wrong light illuminates	Your output-to-camera mapping does not match the switcher's tally numbering. Re-map OUT 1–4 to the correct cameras (Section 5, step 4).
A light stays on constantly	Check for a tally assignment left on a bus (aux or clean feed) on the switcher. Confirm the source is not permanently selected.
Green never appears on any camera	Confirm the cable is on the bi-color TALLY OUT port (not a single-color GPIO). Every model in Appendix A outputs bi-color tally.
Intermittent or flickering tally	Re-seat connectors and replace any suspect Ethernet cable. Keep tally runs away from high-power cabling.

## 9 · Specifications

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### Bundle SKUs (Datavideo)

Bundle SKU	Included cable	Switcher connector
<b>TI-OC-DAT-25-4</b>	TI-CBL-OC-DAT-25	DB25
<b>TI-OC-DAT-15-4</b>	TI-CBL-OC-DAT15	DB15

### Interface (shared across all bundles)

<b>Input connector</b>	DB9 female
<b>Outputs</b>	4 × RJ45 (standard Ethernet to Ikan tally lights)
<b>Tally type</b>	Open collector — program (red) & preview (green) per output
<b>Switcher cable</b>	36" (3 ft), DB9-to-DB25 or DB15
<b>Power supply</b>	5VDC 750mA, 5.5 mm barrel jack
<b>Enclosure</b>	ABS plastic, 105 × 78 × 40 mm (4.13" × 3.07" × 1.57")
<b>Product weight</b>	~1 lb
<b>Shipping weight / size</b>	2 lb, 7 × 7 × 7 in carton
<b>Warranty</b>	1-year limited
<b>Country of origin</b>	United States

# 10 · Safety & Regulatory

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## Safety

- Use only the supplied 5VDC power adapter. Operate indoors in a dry location within normal room-temperature conditions.
- Do not open the enclosure. There are no user-serviceable parts inside; opening it voids the warranty.
- Route Ethernet and tally cabling away from mains power and high-current runs to avoid interference.
- The open-collector output shares a common ground with the switcher. Connect the interface only to a compatible Datavideo tally port and to Ikan tally lights.
- Observe normal ESD precautions when handling connectors.

## Regulatory

These units are configured and sold for use in the United States. CE marking is not included on this release; contact Ikan before deploying in markets that require CE conformity.

## Limited warranty

The interface, cable, and power adapter are covered by a 1-year limited warranty against defects in materials and workmanship from the date of purchase. The warranty does not cover damage from misuse, unauthorized modification, or connection to incompatible equipment.

## Appendix A · Datavideo Compatibility

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Tally behavior verified against Datavideo published switcher specifications. All supported models output bi-color (red + green) open-collector tally.

Connector	Models	Tally	Bundle
DB25	HS-2600, HS-3200, HS-4000, SE-2600, SE-2600MU, SE-3200, SE-4000, SE-4000MU	Red + Green	TI-OC-DAT-25-4
DB15	HS-1200, HS-1300, SE-500, SE-600, SE-650, SE-700, SE-1200MU, SE-2000, SHOWCAST 100	Red + Green	TI-OC-DAT-15-4
DB9 (legacy)	SE-1000	Not supported	—
DB37 (legacy)	SE-3000	Not supported	—

Other open-collector switcher brands (Panasonic, Sony) are on the Ikan tally roadmap and are not part of this release.

— END OF MANUAL —