

# SQUID Changeover

**SQUID** Changeover



**Automatic SDI signal switching for broadcast schemes,  
with tools that add an extra layer of security to any transmission structure.**

Designed to fully utilize its potential in redundant Playout structures for SQUID Air\* systems, in simple SQUID Air / Lite\*, or even for implementation over HD SDI signals for automatic or manual switching.

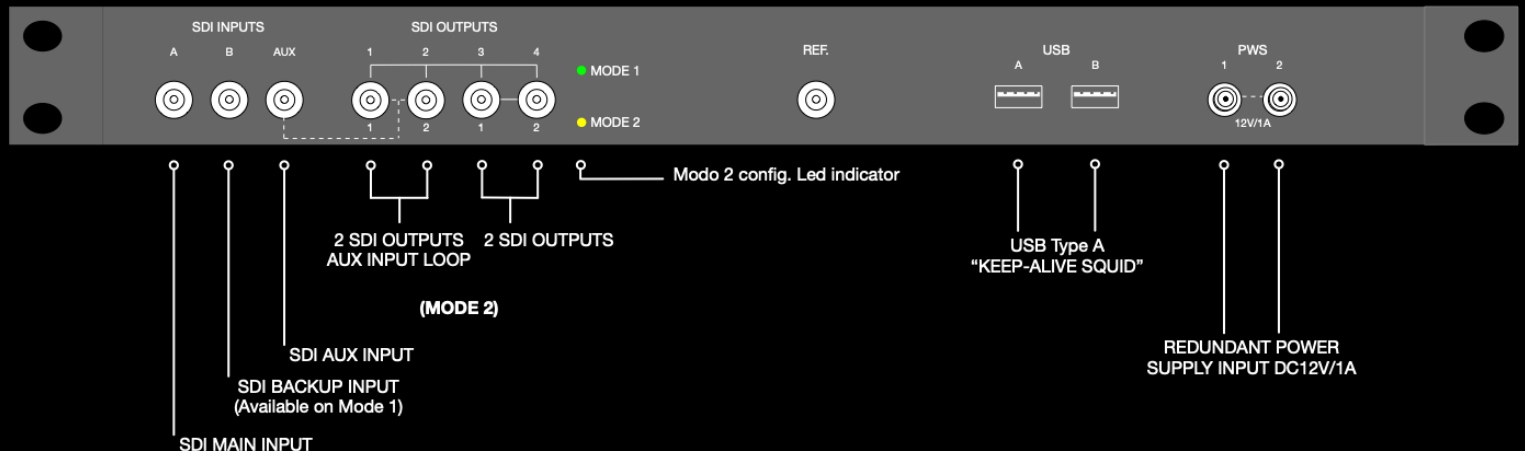
INPUT SELECTOR BUTTONS IN MANUAL OPERATION  
AND STATUS LIGHT INDICATORS IN  
AUTOMATIC AND MANUAL MODES

AUTO OR MANUAL  
SELECTOR BUTTON

**FRONT**



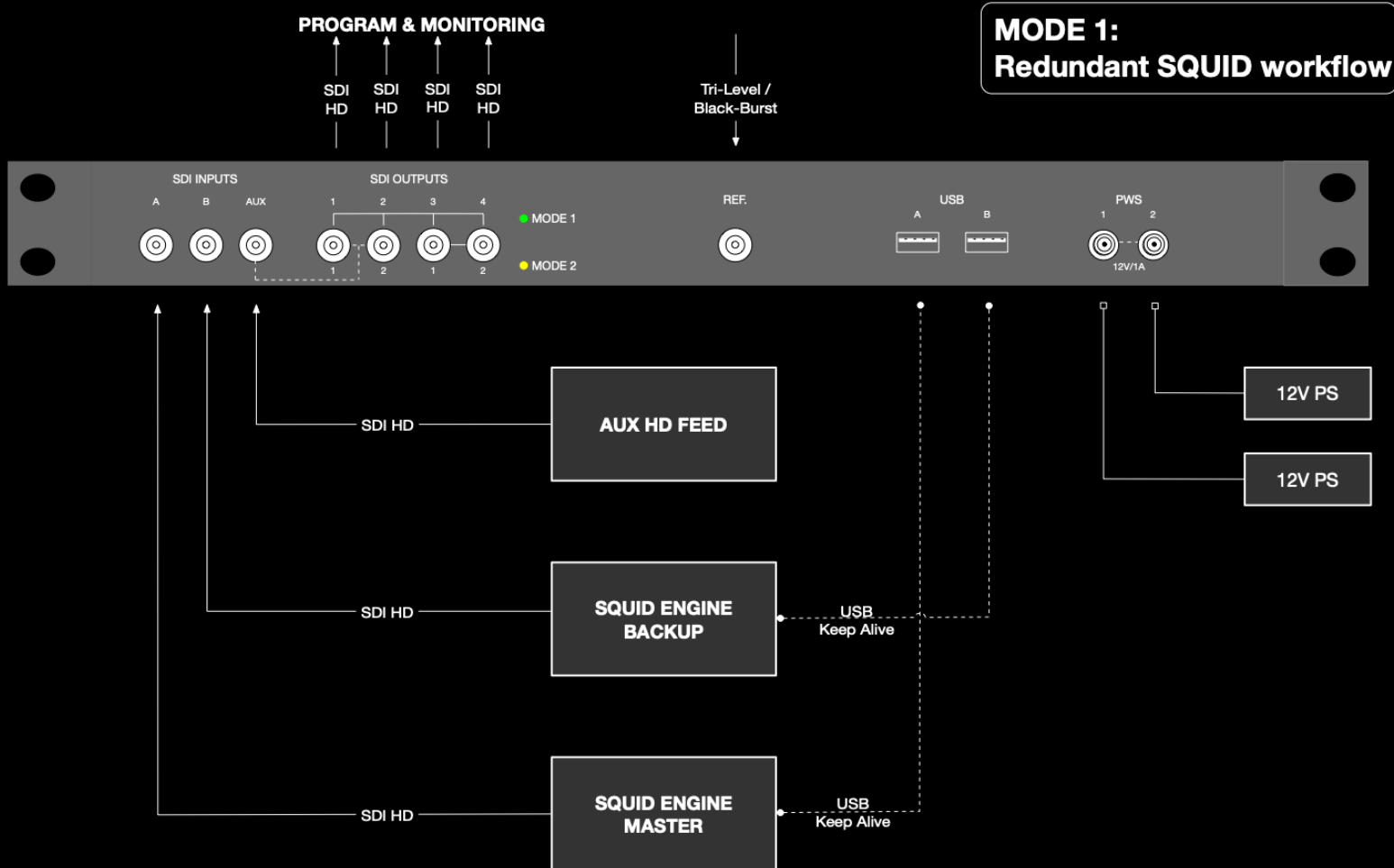
**BACK**



# Two Configuration Modes According to the Implemented Broadcasting System.

## Mode 1: For Redundant workflows such as SQUID & MirrorBackup

It features three (3) independent inputs, "A", "B", and "AUX", which are switched to an output as needed, and then distributed to a total of four (4) simultaneous outputs.



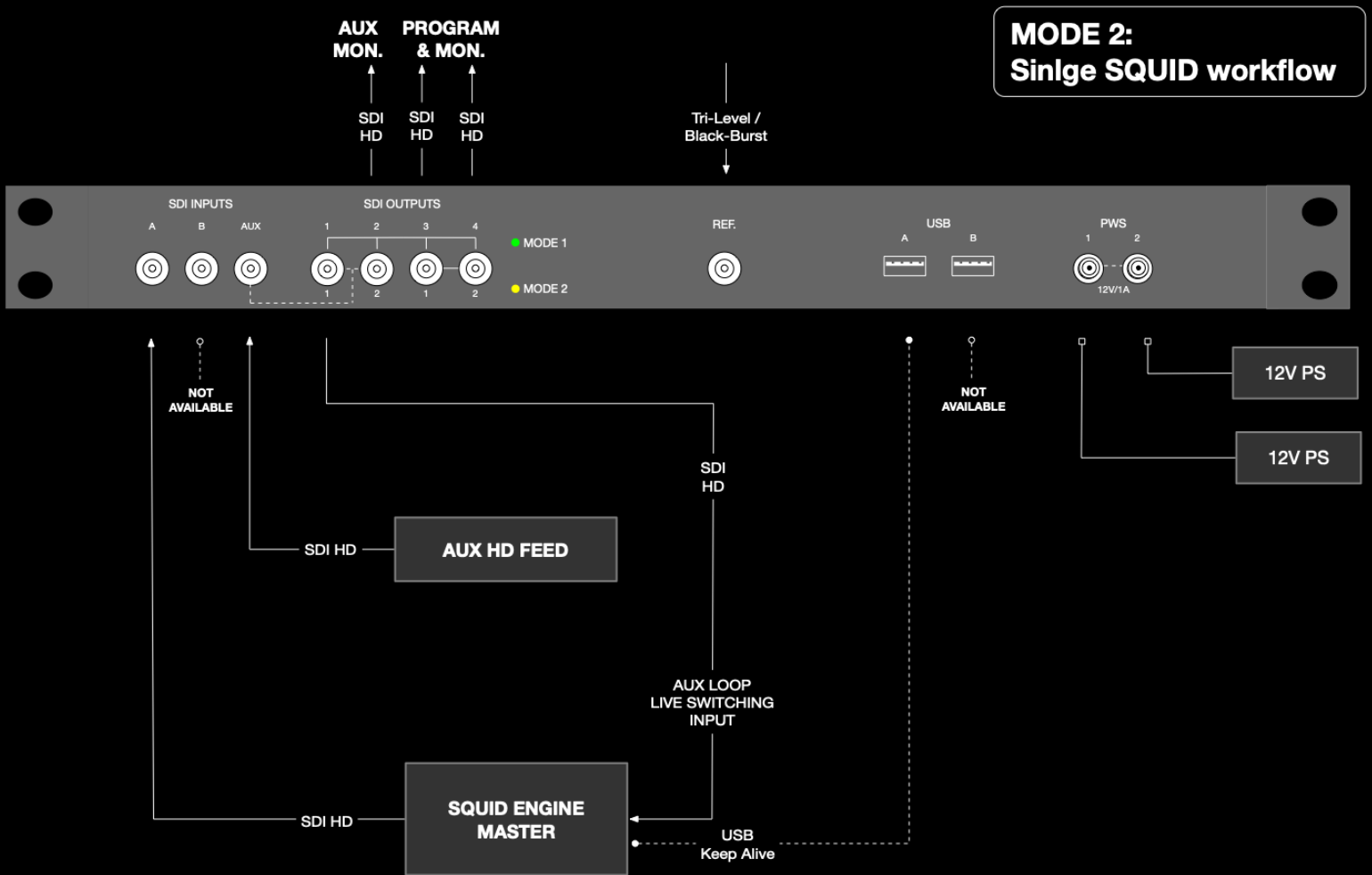
When working with a SQUID workflow and its corresponding Backup, each SQUID Engine sends its real-time status (Keep-Alive) via a USB connection to the Changeover, and this serves as an additional analysis variable for automatic switching.

Switching can be performed automatically according to the configured parameters or manually, for example, during maintenance. Operation can be carried out using the front panel buttons on the Changeover or from the user interface in remote SQUID Player stations.



**Mode 2: For single Playout source or Live Switching Workflows.**

This mode provides two (2) independent inputs, "A" and "AUX," for switching to two (2) simultaneous outputs. The remaining two (2) outputs serve as a loop of the "AUX" input, useful for broadcasting systems with internal live switching.



# Ker Features

- 3 SD/HD/3G SDI with embedded audio
- 2 USB inputs (SQUID Keep Alive) \*
- Reference input (Tri-Level / Black-Burst)
- 2 configuration modes depending on the broadcast scheme
- Built-in SDI Distribuidor according to the operation mode
- Automatic switching based on:
  - No video signal detected
  - Out of standard signal
  - Assistance from the "SQUID Keep Alive" module
- Manual Switching
- Remote operation via SQUID interface \*:
  - Status visualization per input
  - Input Switching
  - Power Supply status indicator
  - General settings
- Front panel with illuminated buttons (color-coded based on status)
- External redundant power supply inputs

(\* ) Functions compatible with SQUID versions 3.7 and later.

## Compact and robust design. 1UR 19" x 50mm



## Absolut control.



**Control and monitoring of the Changeover status from the user interface of SQUID Player workstations.**

## Technical specs:

<b>Inputs / Outputs</b>	
Standard / Operation Formats	<b>SDI</b> (SPMTE 259M y SMPTE 344M), HD SDI (SMPTE 292M / 296M), 3G SDI (SMPTE424M)
Processed video formats	<b>SD:</b> 525i59.94, 625i50 <b>HD:</b> 720p50, 720p59.94, 720p60, 1080i50, 1080i59.94, 1080i60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p47.95, 1080p48, 1080p50, 1080p59.94, 1080p60
SDI Data Rates	143, 177, 270, 360, 540, 1485 and 2970 Mb/s
<b>Inputs</b>	
Impedance	75 $\Omega$ $\pm$ 1 %
EQ (1694A cable)	Up to 400m @ 270 Mb/s Up to 200m @ 1.485 Gb/s Up to 140m @ 2.97 Gb/s
<b>Reference</b>	
Impedance	75 $\Omega$ $\pm$ 1 %
Type	Tri-Level or Black-Burst Autodetect.
<b>Outputs</b>	
Impedance	75 $\Omega$ $\pm$ 1 %
Level	800 mV $\pm$ 10 %
Reclock	Automatic for operating standards
<b>Buttons</b>	
Qty	4
Chracteristics	Backlight
Type	Vacuum-sealed, magnetically actuated contact
Operation Life	> 50 x 10 <sup>6</sup> actuations
<b>Comunication</b>	
Ports / Type	2 x USB-A
<b>External Power</b>	
External PS inputs	2 x Threaded plug connectors
Voltage	12 V DC
Current usage	Less than 1 A
<b>Physical Specifications</b>	
Dimensions	1RU 19", depth: 2 in.
Weight	Approx. 2 Lbs

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Designed and assembled in Argentina.

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