## Settings

A dip switch is provided for manual module configuration.

Each switch function is described below:

1. **Manual Input -** Manual switch between BNC or SFP input.
2. **Input Selection Mode -** Switch between automatic or manual input selection. Manual input selection will consider the setting of switch 3.
3. **Input Selection by GPI -** When set to ON the SDI input can be switched by closing the connections between IN 1 - 4 and GND.
4. **Reference Select -** Switch between using the external reference input or SDI input as a reference.
5. **Test Pattern -** Turns the test pattern generator ON or OFF
6. **Input Loss Reaction -** Switch between reacting or not reacting on input loss. If switched on, switches 7 and 8 set how the device reacts.

7 & 8 "Freeze on TRS Error" Bit Switch Set
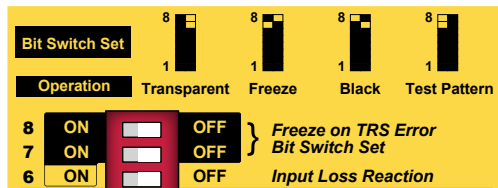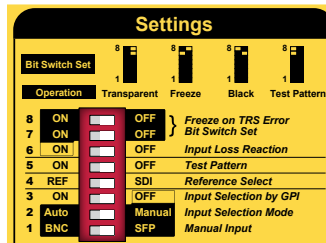
Transparent:	Don't act on signal drop **(not recommended)**	
Freeze:	Freeze on last frame	
Black:	Black screen	
Test Pattern:	Show test pattern	
	Default: Black (can be changed in GUI)	
	Options: White, Yellow, Cyan, Green, Magenta, Red, Blue, Black, Grey 15%, Colorbar, Colorbar over Red, White/Black Bars, EQ Pathological, PLL Pathological, EQ/PLL Pathological	

---

yellobrik®

yellobrik® | Quick Reference

PVD 1400
12G/6G/3G/HD/SD Frame Synchronizer

Technical Specifications

SDI Video	1 x SDI Input on 75 Ohm BNC connector 1 x SDI Loop Output on 75 Ohm BNC connector 2 x SDI Output on 75 Ohm BNC connector
	SMPTE ST 2082 (**12G**), SMPTE ST 2081 (**6G**), SMPTE 424M (**3G**), SMPTE 292M (**1.5G**), SMPTE 259M (**270M**)
	Electrical Return Loss: >15dB from 5MHz to 1.5GHz, >10dB from 1.5GHz to 3GHz, >7dB from 3GHz to 6GHz, >4dB from 6Ghz to 12GHz
	Automatic cable EQ (Belden 1694A cable) 190m @ 1.5Gbit/s, 150m @ 3Gbit/s, 85m @ 12Gbit/s
Fiber Optic	**SFP Port (Optional):** SMPTE ST 2082 1 x fiber optic input (LC/PC Connections) 1 x fiber optic output (LC/PC Connections)
Reference	1 x Reference Input on 75 Ohm BNC connector
GPI	4 x GPI Inputs
USB	Standard USB Mini B port for control, monitoring, and updates
Power	+12V DC @ 8.7W nominal (supports 10 - 24V DC input range)

Online Product Page

For additional information on the device visit our website via the QR code to the right. This website shows the most recent datasheets, quick reference guides and more.

www.lynx-technik.com/p/pvd_1400

CAUTION: This is a high-power module. Please ensure adequate airflow is provided when mounting the module in the RFR 1200 rack frame. If necessary, leave empty slots on either side of the module or consider adding an RFF 1200 cooling fan tray to maintain the module within its recommended temperature range.
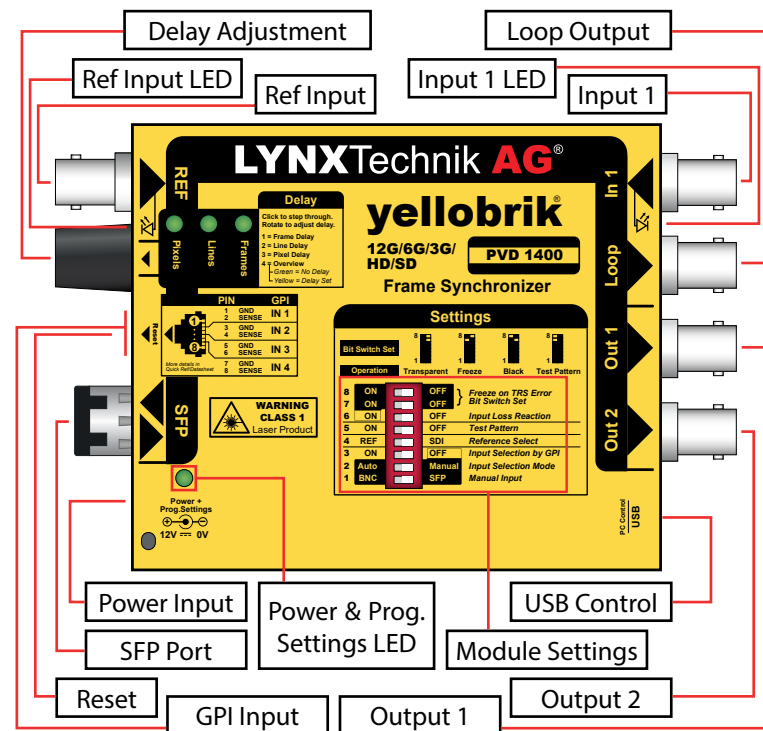
LYNXTechnik **|** Broadcast Television Equipment
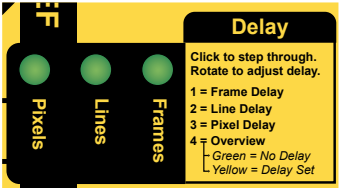

WARNING
CLASS 1M LASER PRODUCT

Laser Radiation
Do not look directly into emitter with optical instruments

Connections

All connections are clearly labeled on the module. Electrical SDI and Reference inputs use standard 75Ω BNC connectors. SDI fiber connections depend on the optional SFP module. Most SFPs available from LYNX Technik feature LC/PC connectors, though ST and SC variants are also supported. GPI connections are made via RJ45 connectors and can be used to switch inputs, force a signal freeze, or enable/disable latched changeover mode.

Delay Adjustment

A rotary control is provided to manually adjust the video output delay. A maximum delay of 30 frames adjustable in frame / lines / pixels increments is possible. Pressing the rotary control cycles between the 4 adjustment modes, which are indicated by the LEDs. Delay can also be adjusted in LynxCentraal or yelloGUI.
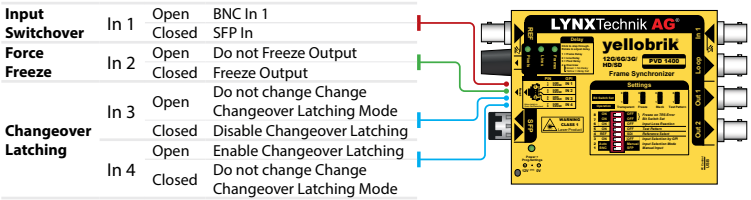
Delay

Click to step through.
Rotate to adjust delay.

1 = Frame Delay
2 = Line Delay
3 = Pixel Delay
4 = Overview
 — Green = No Delay
 — Yellow = Delay Set

When an LED is on turning the rotary control will adjust the delay in the selected increments (frames / lines / pixels).

In "Overview" mode, all three LEDs are green when no delay is set (0), and yellow when a delay is applied (non-zero). The rotary control has no effect in this mode.

GPI

The PVD 1400 has four GPI connectors. Enable them by closing the connection between GND and SENSE.

Input Switchover	In 1	Open	BNC In 1
		Closed	SFP In
Force Freeze	In 2	Open	Do not Freeze Output
		Closed	Freeze Output
Changeover Latching	In 3	Open	Do not change Change Changeover Latching Mode
		Closed	Disable Changeover Latching
	In 4	Open	Enable Changeover Latching
		Closed	Do not change Change Changeover Latching Mode

Module LEDs

The module has several LEDs included to indicate status:

Power / Prog Setting LED

🟢	Green	Power OK - no internal programmed settings are present (factory preset)
🟡	Yellow	Power OK - some programmed settings are active*
🟡	Yellow (blinking)	Locate module function active
🔴	Red	Power OK - switch settings have been overwritten with control software settings
⚪	Off	Power not present

*Internal settings have been made using LynxCentraal and the LED indicates this by turning yellow. The module can be reset to factory defaults by using the reset switch (recessed under a hole on the side of the module). When reset the LED will change back to green.

Ref Status LED

🟢	Green	Reference signal is present and matches the SDI input format
🟡	Yellow	Reference signal is present but does not match the SDI input format. The SDI output is being converted to match reference input.
⚪	Off	None or no valid reference signal

SDI Input 1 Status LED

🟢	Green	Valid SDI signal connected
⚪	Off	None or no valid SDI signal detected

Firmware Updates / Control Software

To update a yellobrik, connect power to it and connect it to the PC or Mac running LynxCentraal with the provided USB cable. The control software will indicate if a new firmware is available. To start the update change to the "Update" tab, select the devices to update and click "Start Update" in the bottom right corner.
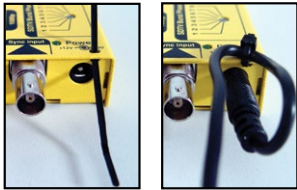
Firmware updates are always free of charge.

Power Lead Strain Relief

The module has a small hole in the case located above the power connection. To prevent the power lead being accidentally pulled out, use the supplied tie-wrap and secure the lead as shown opposite.

Mounting Solutions

The optional RFR 1001 mounting bracket can be used to permanently mount the module on any surface or on 19" rack rails.

The optional RFR 1000-1 and RFR 1200 rack mount can be used to mount up to 14 yellobrik modules. In addition, both rack frames provide full power redundancy for all mounted yellobriks.

Support

If you encounter issues or have questions visit our knowlege base for FAQ on your product.
Can't find the answer to you problem? Contact our support team for individual support

Please remember to register your product via LynxCentraal so we can process future repairs, returns or similar faster.