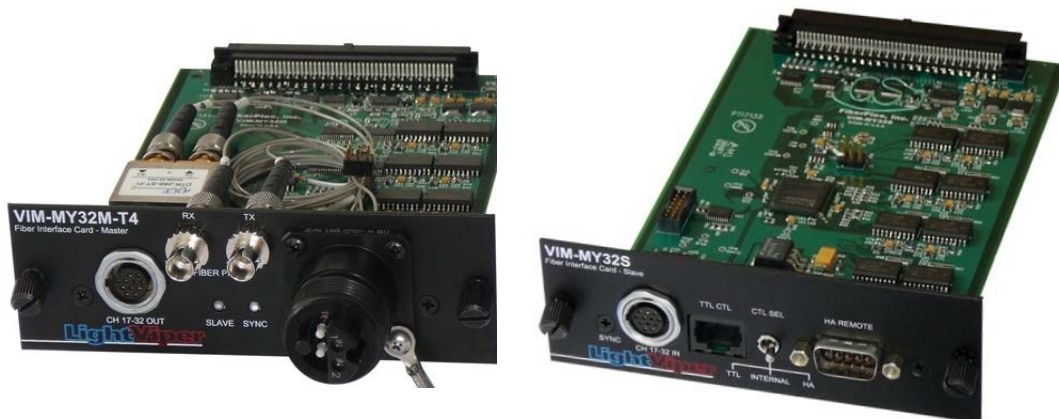


## VIM-MY32



### Functional Considerations

- The LightViper VIM-MY32 cards contain no user serviceable parts. Please contact Fiberplex directly with any service issues.
- The LightViper VIM-MY32 cards are for use with Yamaha digital consoles containing YDGA1 card slots ONLY.
- The VIM-MY32 cards are powered from the Yamaha console. **ALWAYS POWER DOWN YOUR CONSOLE BEFORE INSERTING OR REMOVING VIM-MY32 CARDS FROM YOUR CONSOLE.**

### Standard Components

In its standard configuration, the Light Viper VIM-MY32 cards are made up of the following primary components.

**The VIM-MY32 Cards** — The VIM-MY32 cards are available in (4) versions, (3) masters and (1) slave. The VIM-MY32MST is a master card containing (2) ST fiber connectors. The VIM-MY32MOC is a master card containing a single Neutrik OpticalCon connector. The VIM-MY32MT4 is a master card containing a single TAC-4 (four fibers) connector. The VIM-MY32S is a slave card and contains no fiber connectors.

**The Master / Slave Interconnect cable** – each master / slave pair purchased comes with a high speed Neutrik 12 pin MiniCon™ connector. This cable connects the master card to the slave card.

**The Fiber Jumper Cable** – For those purchasing VIM-MY32MT4 cards with a system of 48 or 64 channels, a duplex PVC fiber cable is supplied to connect the fiber “pass-throughs” on the VIM-MY32MT4 to the VIM-MY32MST card. In 48 or 64 channel configurations, (2) master modules are required. This jumper connects one master card to the other.

## Getting Started

To install your VIM-MY32 cards please follow these steps:

1. Power down your Yamaha console
2. Set clock master / slave switch on master card(s). This switch is found on the VIM-MY32M (master) circuit board. If the VIM-MY32 clock on the VIM-MY32M is being used as the main system clock, switch this to "Master". If the Yamaha console internal clock is being used as the master clock, set this switch to "Slave"
3. Insert cards into appropriate YGDAI card slots, aligning the sides of the card with the with the support guides in the YGDAI slot
4. Connect master / slave cards with supplied Neutrik MiniCon cable
5. Connect (if applicable) supplied fiber pass-through cable (VFC-0001-DST) between VIM-MY32MT4 and VIM-MY32MST cards.
6. Press the VIM-MY32 card firmly in place ensuring a complete connection between the multipin back plane of the VIM-MY32 card and the console
7. Secure the VIM-MY32 card with supplied thumb screws
8. Power up your Yamaha console
9. Check to see that "slave" LED is solid green
10. Ensure that the "sync" LED is solid green
11. Input audio signals and check for audio in both directions

## Advanced functions of the Light Viper VIM-MY32 cards (control, clocks, etc.)

1. Using Yamaha control protocol with the LightViper VIM-MY32 cards

On the VIM-MY32S (slave) card, there are DB9 and RJ45 connectors. These connectors are used to input control from your Yamaha into the LightViper system to remotely control digital microphone preamplifiers (i.e. Yamaha AD8HR, Aphex 1788A, etc.). The RJ45 connector is for use with the LightViper DGL-422 cable only. This cable contains active electronics that translate the Yamaha control protocol for the LightViper system. The DB9 connector may be used with a straight DB9 to DB9 cable, utilizing the translation electronics on the VIM-MY32 card itself. The switch in between these connectors should be set to correspond with the connector being used (left or "TTL" for the RJ45, right or "HA" for the DB9 connector). In the case of the Yamaha LS9, this console has no external control connector. Control is fed internally to the back plane of the VIM-MY32 card itself. If you are using VIM-MY32 cards with a Yamaha LS9, the switch should be set to the middle "internal" position. Accessory LightViper products such as DGL-422 (Yamaha control protocol), MD3 (RS-422, MIDI, RS232 control) and DMX4 (DMX lighting control plus Yamaha control).

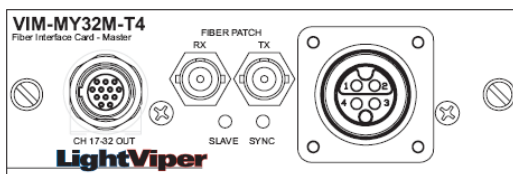
The Yamaha console will not display "VIM-MY32" on the console screen. The Yamaha console will recognize the VIM-MY32 card as a generic 16-channel expansion card. The name shown in the text field will be displayed as a generic name (i.e. "ADAT 16"). What is displayed may vary with the model and/or software version being run on the Yamaha console. Some Yamaha mixers may not be compatible with the LightViper VIM-MY32 cards. Software and firmware updates to the console may be required. Consult with Yamaha customer service or your console manual for additional information.

## Setting up your Yamaha Console for operation with LightViper MY32 cards.

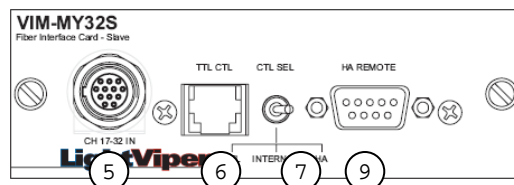
1. Go to the input patch screen and assign inputs to the appropriate slots
2. Go to the output patch section and patch your outputs to the appropriate slots

**Important Note: While the Yamaha console shows (16) patchable outputs on the display screen, only (8) on each master card are actually assignable. You must assign outputs to the slot which contains the VIM-MY32 master card.** There are (8) returns on a 32x8 system utilizing (1) VIM-MY32 master and (1) VIM-MY32 slave; (16) returns on a 48x16 system utilizing (2) VIM-MY32 masters and (1) VIM-MY32 slave; and (16) returns on a 64x16 system with (2) VIM-MY32 masters and (2) VIM-MY32 slaves. When using VIM-MY32S (slave) cards on a split, none of the control functions are operational from these split positions – only the primary VIM-MY32S cards located at FOH have the capability of utilizing these control functions. When using VIM-MY cards on a split, the clock selection switch on the VIM-MY32 master card(s) must be set to “Master”, as these cards will be feeding the master clock to the split console. If using a system that contains both a LightViper VIM-1832 mixer box and VIM-MY32 cards, the VIM-1832 must operate at 24bit/48k using the external clock input.

**Note: When using the cards with a Yamaha LS9, the VIM-MY32M (Master) card must be used in slot #1 only. The control must also be assigned to slot #1 only.**



VIM-MY32MT4 (Master)



VIM-MY32S (Slave)

8

**The VIM-MY32MT4, VIM-MY32MOC and VIM-MY32MST are identical with one exception. The T4 versions contains a single TAC-4 fiber connector, The OC version contains a single Neutrik OpticalCon fiber connector, and the ST version contains a pair of ST fiber connectors. The VIM-MY32T4 (Master) and VIM-MY32S (Slave) card are shown here. Drawings of all versions can be found on page 14.**

### VIM-MY32M – Master Card

- ① Neutrik MiniCon Connector – This (12) pin connector is used to connect the VIM-MY32M master card to the VIM-MY32S slave card.
- ② Slave LED – This LED shows the status of your connection between your master and slave cards. If the LED is not lit, there is no connection. If the LED is solid green, the connection between master and slave cards is active.
- ③ Sync LED – This LED indicates the clock sync status of the system. If the LED is not lit, the card is not receiving power. If the LED is flashing green this means the system is searching for sync. If the LED is solid green the system is in sync.
- ④ ST Fiber Pass Through Connectors – These fiber “pass-throughs” appear only on the VIM-MY32MT4 version of master card. These pass troughs allow you to access the additional (2) fibers in a TAC-4 connectos and connect them with the additional VIM-MY32MST master card in systems

with 48 or 64 channels. On a 32channel system, these ST "pass-throughs" would not be used as there is only (1) master required for a 32x8 system.

⑤ Fiber Connector – The main fiber connection illustrated above contains a TAC-4 connector. Other versions contain either a single Neutrik OpticalCon fiber-optic connector, or (2) ST fiber-optic connectors.

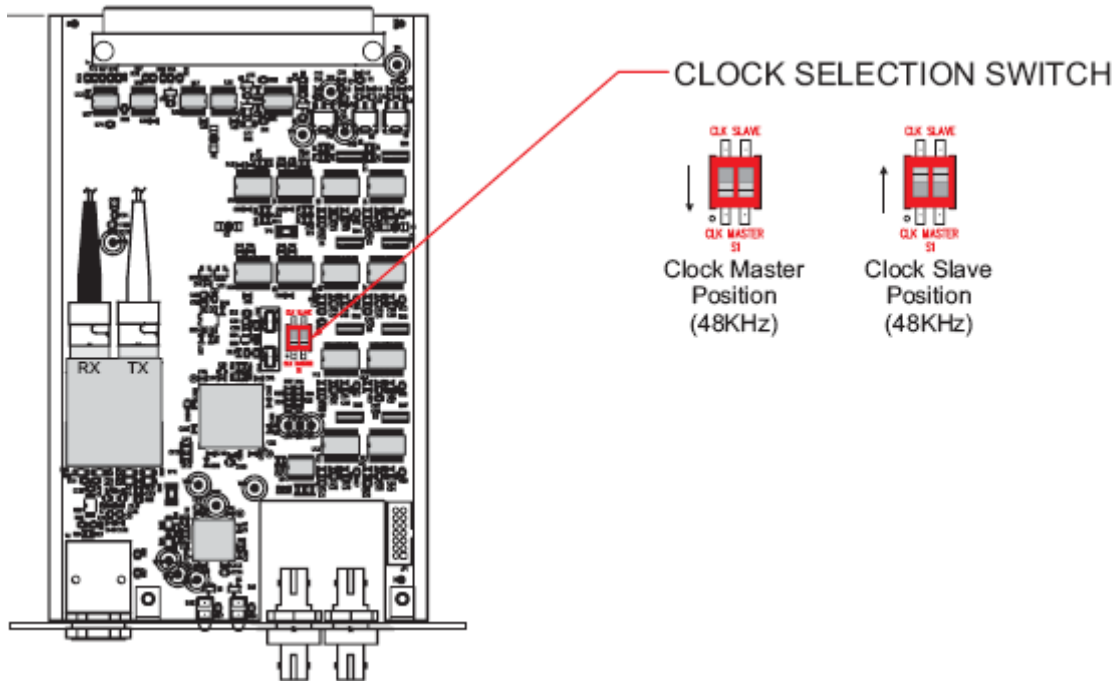
#### **VIM-MY32S – Slave Card**

⑥ Neutrik MiniCon Connector – This (12) pin connector is used to connect the VIM-MY32M master card to the VIM-MY32S slave card.

⑦ TTL CTL Connector – This connector is for use with the LightViper DGL-422 control cable, as well as LightViper MD3 or DMX4 units.

⑧ CTL / SEL Switch – This switch determines which connector on the VIM-MY32S (Slave) card is active. Switch to the left for RJ45 "TTL CTL", center for LS9 ("back plane") control, and right for DB9 "HA" control.

⑨ HA/Remote Connector – This connector is for connecting a stright DB9 to DB9 cable from the DB9 control output connector on the Yamaha console to the DB9 on the VIM-MY32S card.



**Clock Master / Slave Switch** - This switch is found on the VIM-MY32M(master) circuit board. If the VIM-MY32 clock on the VIM-MY32M is being used as the main system clock, switch this to “Master”. If the Yamaha console internal clock is being used as the master clock, set this switch to “Slave”. When using VIM-MY cards on a split, the clock selection switch on the VIM-MY32 master card(s) must be set to “Master”, as these cards will be feeding the master clock to the split console.

**Fiber Options**

**Tactical grade military fiber** - (TAC-4) is used for live production applications (P/N TFC-0000-04). Weighing 8.4 lbs.(12.6kg) for(300)feet, this cable contains (4) fibers and therefore it is capable of carrying the signals of (2) VIM-1808/0808 systems on a single cable. The TAC-4 connectors are hermaphroditic and can be connected to one another. Multimode fiber can transport signals up to 2km (1.25 miles).



**Neutrik OpticalCon® Fiber** – this fiber cable contains (2) fibers and is also a tactical grade fiber (P/N TFC-0000-02OC). This fiber cable is transporting (1) VIM-1808/0808 system.



**PVC fiber** – PVC duplex fiber contains (2) fibers. Plenum rated fiber is also available. The installer can terminate the fiber themselves, or Fiberplex can supply it pre-terminated. This fiber is also available with a strain relief and “pulling eye” which reduces on site labor. A single length of PVC duplex fiber can transport (1) VIM-1808/0808 system.



**ADDITIONAL OPTIONS**



**MD3** – A pair of LightViper MD3 units may be used to transport RS-422, MIDI or RS-232 from FOH to stage via the RJ45 connector on the VIM-MY32S card.



MD3 – FRONT & BACK

**DMX4** – A pair of DMX4 enables the user to send (4) universes of DMX lighting control data, or (3) universes and Yamaha control. The Yamaha control is connected via the DB9 connector on the DMX4.



DMX4i & DMX4o

**DGL-422** – This interconnect cable contains active electronics and allows the user to transport Yamaha control from the Yamaha console to the stage unit via the RJ45 connector on the VIM-MY32S card.



DGL-422

[Buddy to insert spec's here]

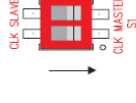


6.392

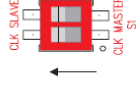
4.740

1.575

### CLOCK SELECTION SWITCH

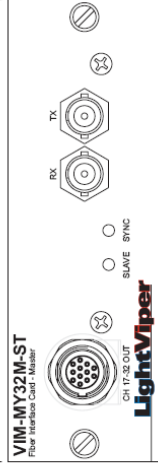


Clock Master Position (48KHz)

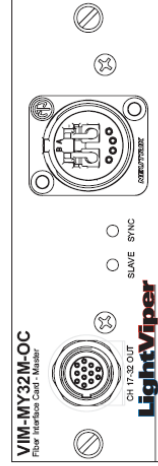


Clock Slave Position (48KHz)

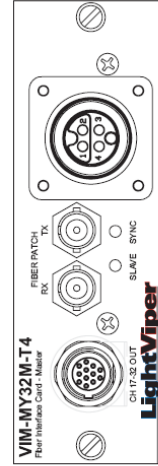
VIM-MY32M-ST (TYP)



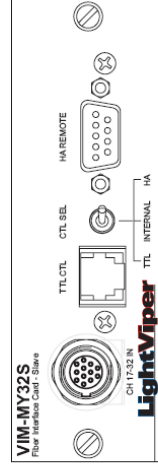
VIM-MY32M-ST



VIM-MY32M-OC



VIM-MY32M-T4



VIM-MY32S

UNLESS OTHERWISE SPECIFIED

DIMENSIONS IN INCHES

FRACTION +/- 1/64

XXX +/- 0.10

ANGLES 0.006

MATERIAL: #16 (0.059) CRS

FINISH: ZINC GOLD CHROMATE

ENGR. H00H DATE: 06/06/2007

DRWN H00H DATE: 06/06/2007

REV/WR DATE:

CHECKED DATE:

MATERIAL: #16 (0.059) CRS

FINISH: ZINC GOLD CHROMATE



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VIM-MY32 Final Assembly

FSCM: C 117402 REV. -

SCALE: 4:1 SHEET 1 OF 1

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