



**d3 Technologies**  
pro/gx Hardware Guide

# Contents



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Welcome.....	1
4×4pro Front panel.....	2
2×4pro/gx2 Front panel .....	3
gx1 Front panel .....	4
Rear panels .....	5-6
Powering your pro/gx server .....	7
Quick start.....	8
d3 Technologies VFC cards.....	9
Changing VFC cards .....	10-13
Support.....	14

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Your new d3 server is just minutes away from being setup and ready to go. Please read the instructions in this hardware guide carefully in order to understand how to work with your d3 machine. You can also refer to the online guides at [help.d3technologies.com](http://help.d3technologies.com)

The pro range is d3 Technologies' cutting edge solution for large and complex shows. The d3 pro range, 4x4pro and 2x4pro set a standard for power and flexibility. They are suited for the most demanding touring productions, massive multi-projector shows, TV, broadcast and high-quality fixed installs. They also give users the option to change the video output signal through Video Format Conversion cards (VFC), so shows can be delivered with fewer machines, no downstream splitters and practically no latency.

The gx range is the natural evolution of the pro range due to the current demand for real-time generative content in the shows of today and the future. Providing the same rugged touring chassis that d3 has built and developed over the years but with a little extra power to push those generative effects. The industry first, patented Video Format Conversions cards (VFC) are fully compatible across the complete d3 range, pro and gx series.

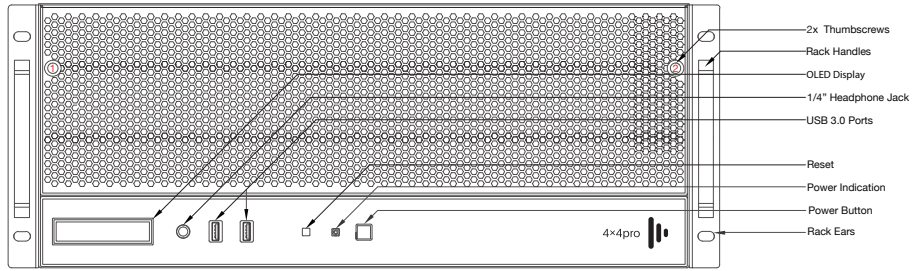
We put great care and effort into the development and manufacture of our products. Please contact your sales team or the d3 Support team if you experience any issues with this product. Contact details can be found at the end of this booklet.

If you have any questions or feedback for us, we'd be happy to hear from you.

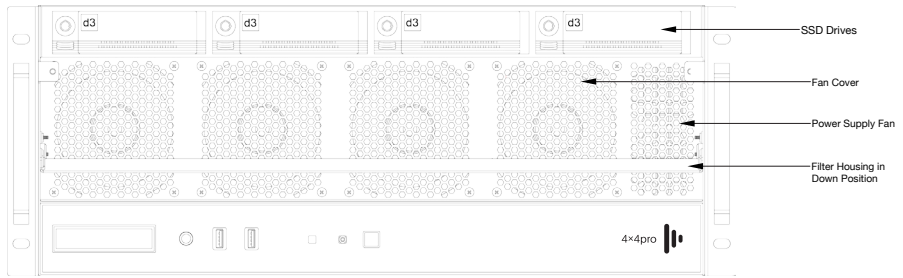
Kind regards,

The d3 Team

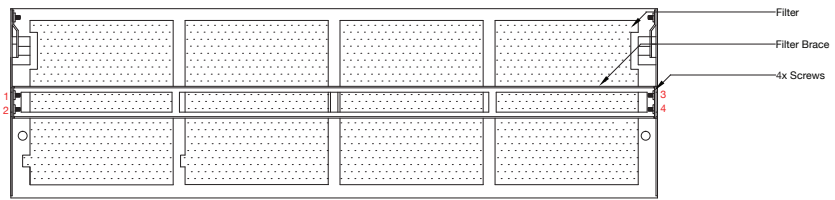
# 4x4pro front panel



To reveal the drive bay and to inspect the air filter undo the two thumb screws on the front of the d3 unit (1 & 2)

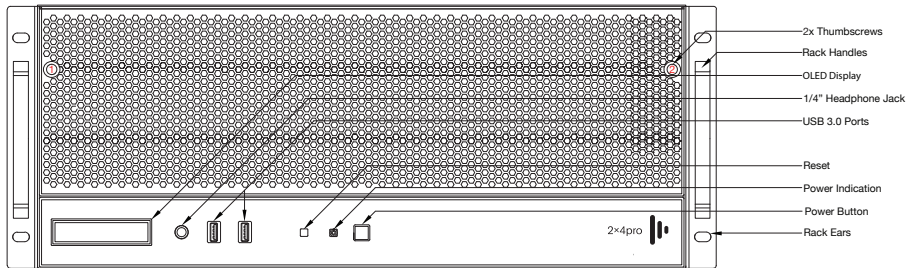


\* The 4x4pro comes with 4x SSD drives. For more info on hard drive configuration refer to the online hardware guide.

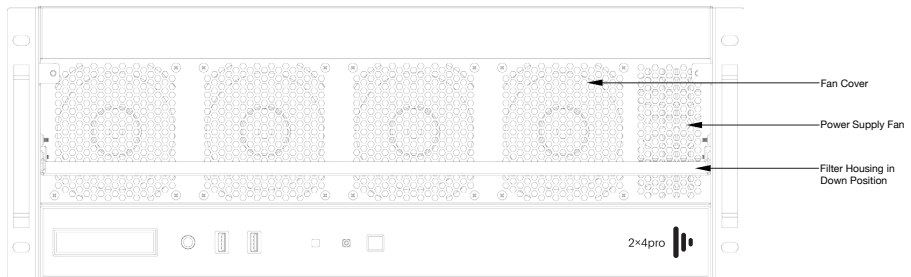


You should regularly inspect the air filter on the front of the unit to prevent loss of cooling efficiency. To remove the air filter material, first remove the screws from the filter housing marked as in the diagram above. Give the filter a clean, replace the filter in the metal frame and reattach the filter brace.

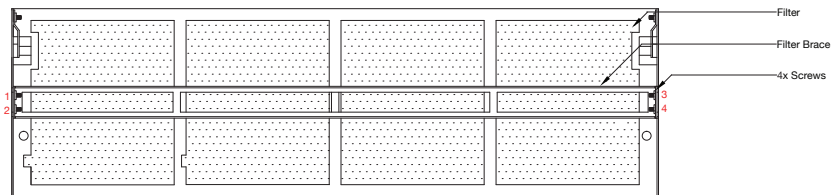
# 2×4pro/gx2 front panel



To inspect the air filter undo the two thumb screws on the front of the d3 unit (1 & 2)

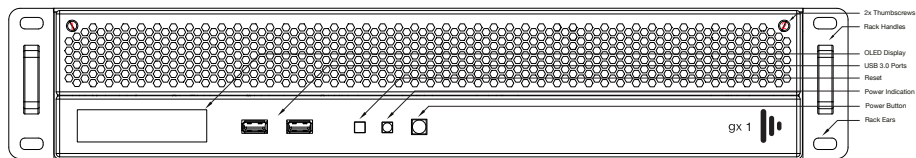


\* The 2×4pro/gx2 comes with 1 internal storage drive. For more info on hard drive configuration refer to the online hardware guide

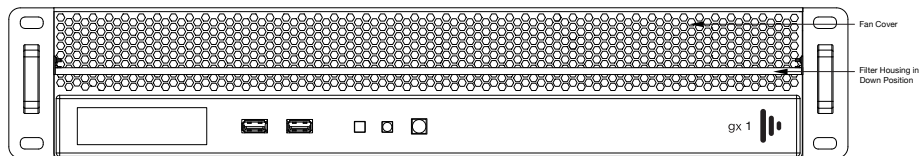


You should regularly inspect the air filter on the front of the unit to prevent loss of cooling efficiency. To remove the air filter material, first remove the screws from the filter housing marked as in the diagram above. Give the filter a clean, replace the filter in the metal frame and reattach the filter brace.

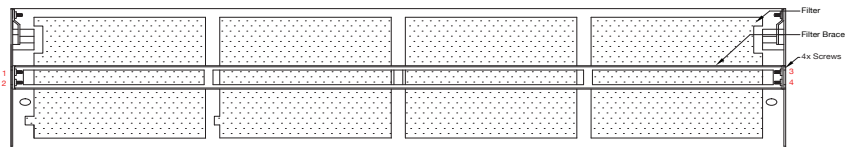
# gx1 front panel



To inspect the air filter undo the two thumb screws on the front of the d3 unit (1 & 2)



\* The gx1 comes with 1 internal storage drive.

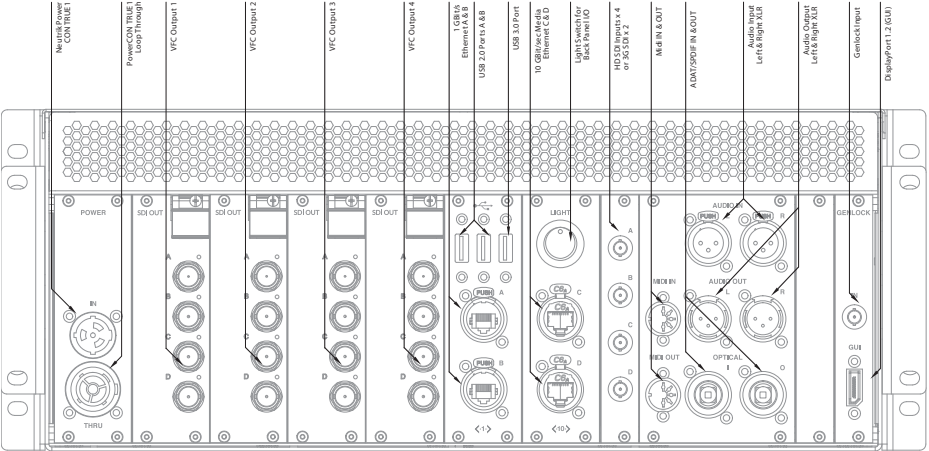


You should regularly inspect the air filter on the front of the unit to prevent loss of cooling efficiency. To remove the air filter material, first remove the screws from the filter housing marked as in the diagram above. Give the filter a clean, replace the filter in the metal frame and reattach the filter brace.

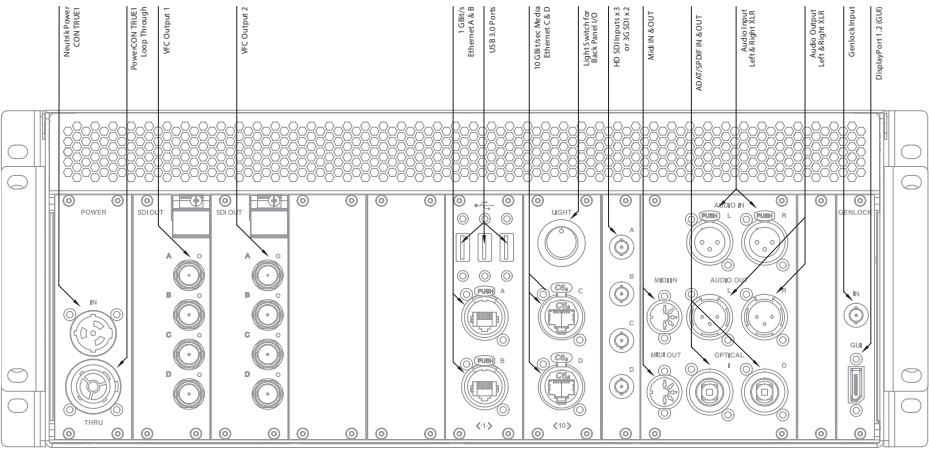
# Rear Panels



## d3 4x4pro



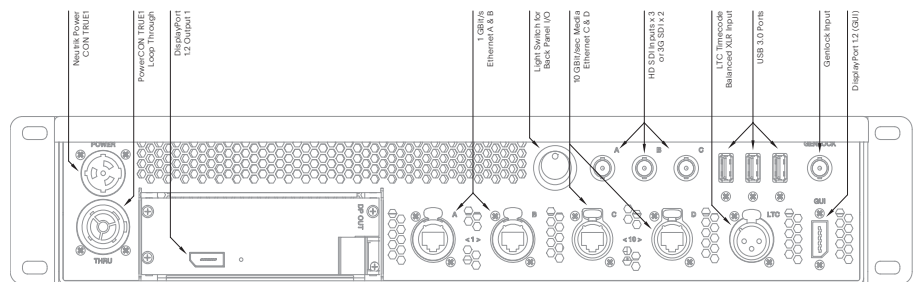
## d3 2x4pro/gx2



# Rear Panels



d3 gx1





# Powering your d3 server



The d3 pro and gx range uses the Neutrik powerCON TRUE1 as its power input. This mains connector is:

- Lockable
- Live-Mating (safely)
- Extendable
- Dust and water resistant

To power the server you should use a cable with the following attributes:

- SJT flexible cord, min. 12AWG, min. 300V, min. 60°C, max 4.5 m long
- One end terminated with NEMA 5-15P/BS 1363/CEE 7/7 plug
- Other end terminated with appliance coupler type Neutrik NAC3FX

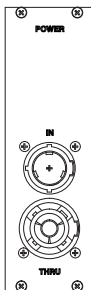
## Powering a Multi Server System

d3 servers feature a power pass-through, making it possible to connect multiple systems.

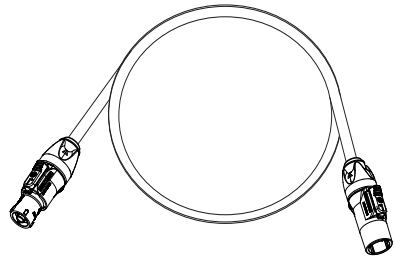
The power input to the machine is rated at 12Amps RMS per connection in Europe and USA.

Loop through cables should have the following attributes:

- SJT flexible cord, min. 12AWG, min. 300V, min. 60°C, max 4.5m long
- One end terminated with appliance coupler type Neutrik NAC3MX-W
- Other end terminated with appliance coupler type Neutrik NAC3FX



True1 Powercon and Loop Through connections on rear of unit

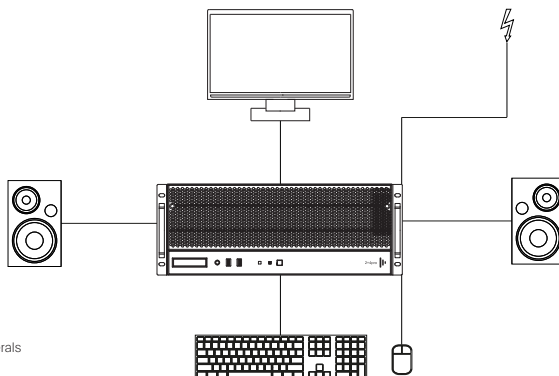


Power cable daisy chain

# Quick start

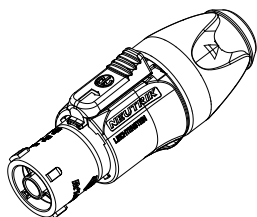


1. Make sure you have connected a keyboard, mouse, monitor and speakers as shown below.

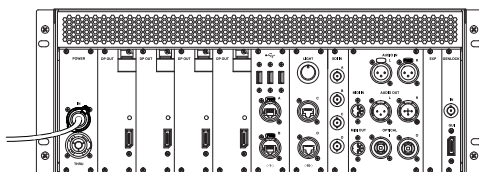


d3 unit connected to peripherals

2. Units in the pro and gx range are fitted with Neutrik powerCON TRUE1 connectors as standard.
3. Use the included power cable with the Neutrik powerCON TRUE1 connector to connect the d3 unit to a power source.

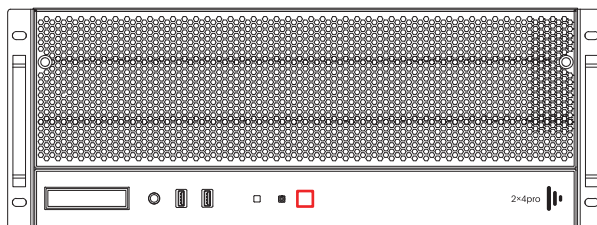


Neutrik powerCON TRUE1 connector



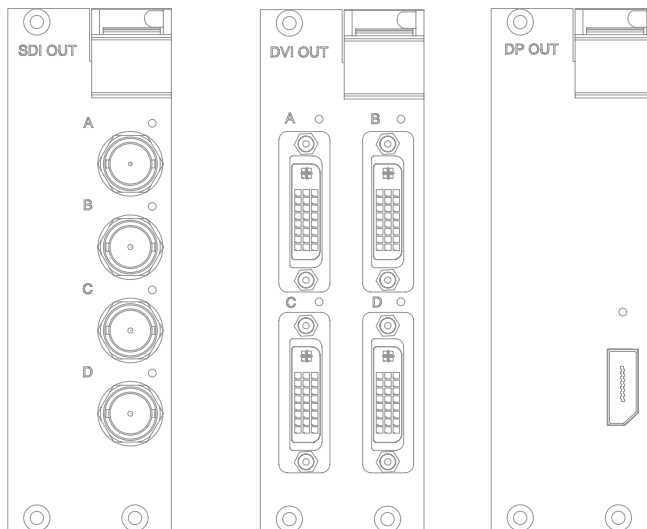
d3 unit connected to power source

4. Press the power button on the front panel of the unit and wait for the system to boot.



Location of Power on/off button on front of unit

The d3 pro and gx ranges ship standard with DisplayPort 1.2 outputs, giving you 4K outputs plus an extra output for your control GUI. Quad-DVI and Quad-SDI cards are available as accessories, allowing you to change cards as your production demands it.



Shown from left to right: Quad-SDI, Quad-DVI, DP 1.2

## d3 VFC Card combinations:

The pro and gx range can combine the above cards in a range of combinations as shown below.

**2×4pro** - Combination of any two cards at one time.

**4×4pro** - Combination of any four cards at one time.

**gx1** - Single card at one time.

**gx2** - Combination of any two cards at one time.

# Changing VFC cards

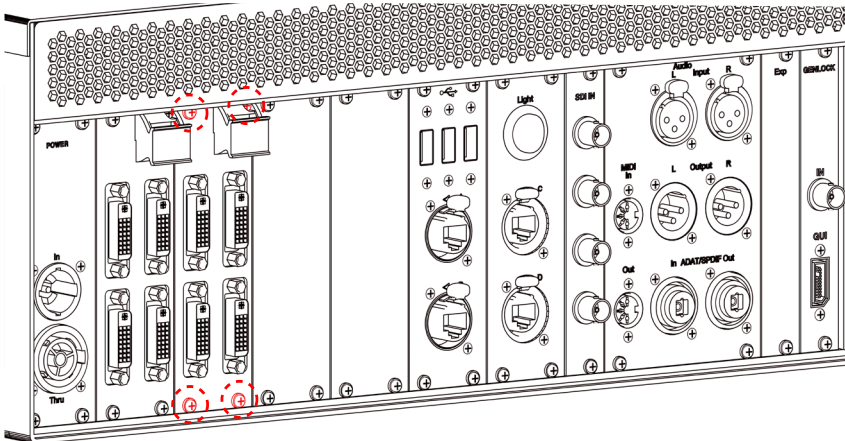


**Please note:** Take steps to ensure you are free of static electricity before starting the procedure and ground yourself appropriately. We recommend the use of an anti-static wrist strap as well as an anti-static mat if one is available. It is easiest to change the cards starting on the right hand side, and it is advised to do so regardless of the amount of cards you need to change.

Users can change VFC cards as they require. You can replace one or multiple cards. The following steps are a guide to help users change over VFC cards. Please read carefully to ensure best practice. If the system does not work after following these instructions, do not force the VFC cards but call d3 Support as per the contact details on the last page of this document.

**Step 1:** Disconnect the system from all sources of power: remove the power cord from input and output, before changing the VFC cards.

**Step 2:** Using a Phillips #1 screwdriver loosen the 4× retaining screws on the VFC card you want to replace. The screws are indicated with a red line in the image below.

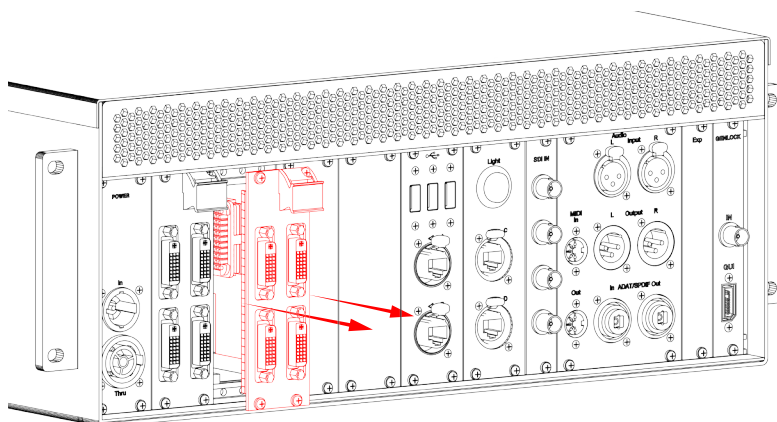
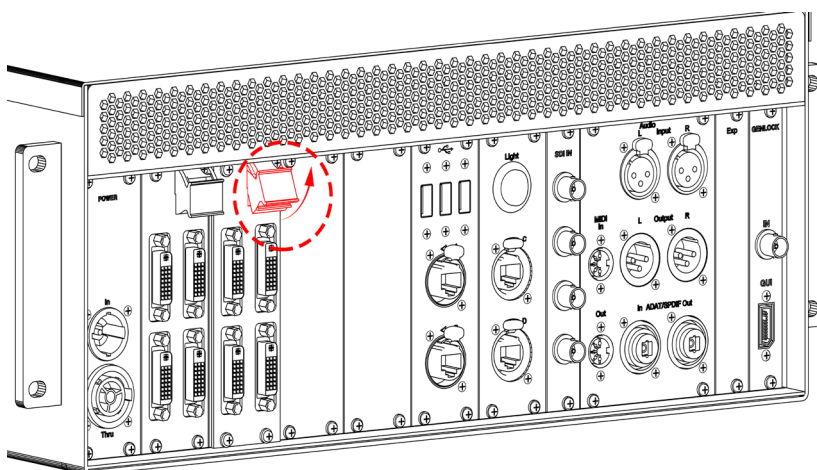


Red lines indicate screw location. Example shows Quad DVI VFC cards

# Changing VFC cards

**Step 3:** Lift the latch on the top right corner of the card and gently remove the card from the rear of the unit by pulling gently as shown in the images below.

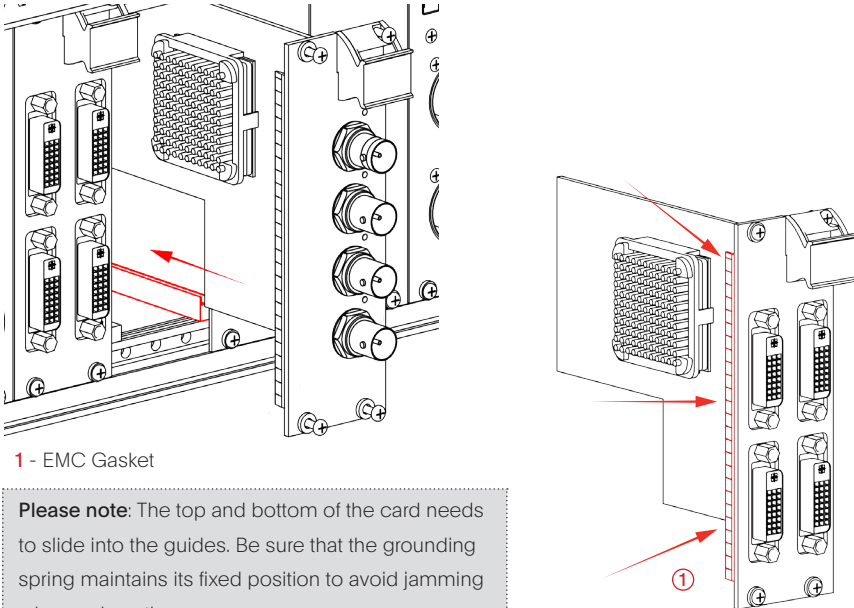
**Please note:** The VFC cards are fragile, be sure to pull straight not flexing the card and if under any resistance do not use excessive force. Avoid touching the exposed electronics.



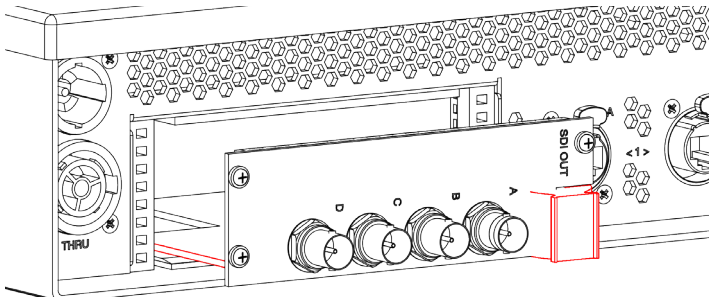
# Changing VFC cards

**Step 4:** Gently place the removed card into the anti static box provided with your purchase.

**Step 5:** Gently insert the new VFC card into the vacant slot, being careful to line the card up with the guides both at the top and the bottom of the system, as indicated for the bottom with red lines in the image below.

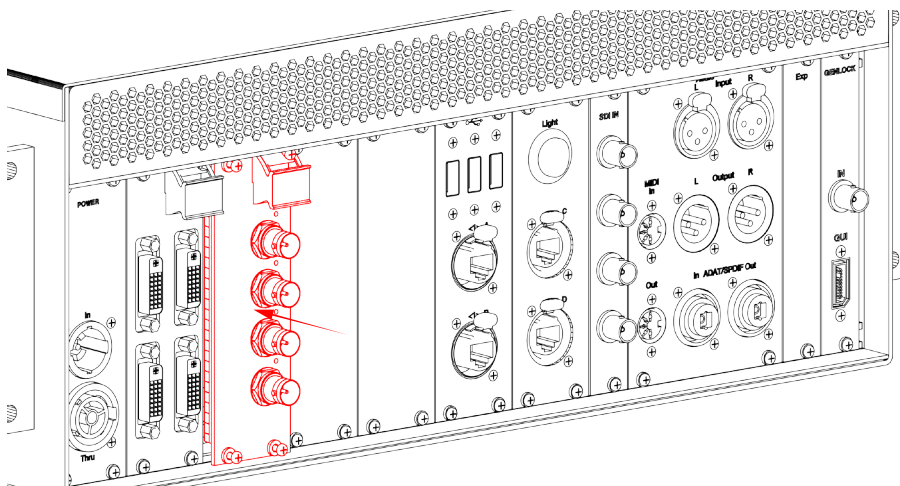


**gx1:** With the gx1, ensure that the latch is on the right when inserting a card. The plastic guides are located near the base of the server and help align the card with the connector.

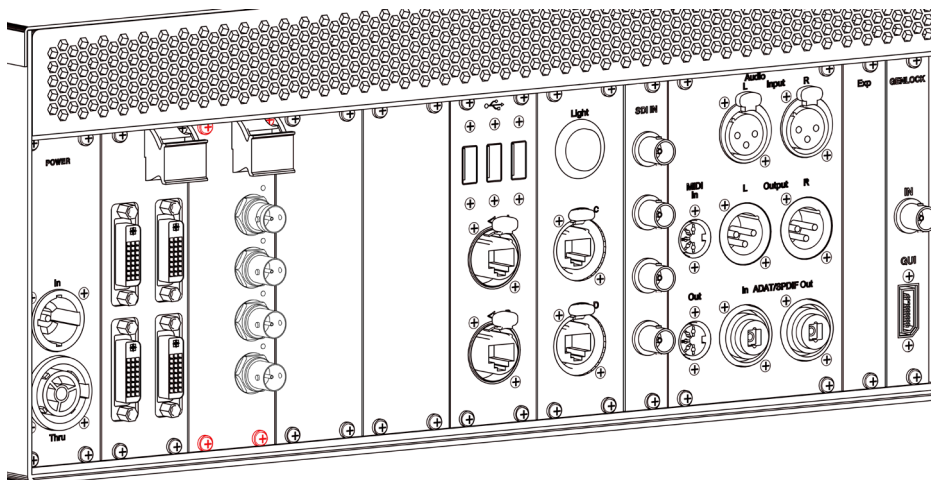


# Changing VFC cards

**Step 6:** Once inserted into the guides, make sure the card is fully flush with the rear of the server by gently and firmly pressing in the centre of the VFC card, as indicated in the image below.



**Step 7:** Fasten the four retaining screws before repeating all of the steps for the next card. To reduce the risk of damaging the threads, do not apply excessive torque to the screws.



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## Helpful contacts

Support Team	<a href="mailto:support@d3technologies.com">support@d3technologies.com</a>
Training Team	<a href="mailto:training@d3technologies.com">training@d3technologies.com</a>
Sales Team	<a href="mailto:sales@d3technologies.com">sales@d3technologies.com</a>

## Helpful links

User Guide	<a href="http://help.d3technologies.com">help.d3technologies.com</a>
d3 Trial	<a href="http://d3technologies.com/en/get-d3/get-d3-trial/">d3technologies.com/en/get-d3/get-d3-trial/</a>
d3 Software Updates	<a href="http://download.d3technologies.com">download.d3technologies.com</a>
Additional d3 Designer licenses	<a href="http://store.d3technologies.com">store.d3technologies.com</a>