



FOS technologies Fader Desk 48 Console User Manual

[Home](#) » [FOS technologies](#) » FOS technologies Fader Desk 48 Console User Manual 

Contents

- 1 FOS technologies Fader Desk 48 Console
- 2 GENERAL DESCRIPTIONS
 - 2.1 Programming
- 3 GENERAL DESCRIPTIONS
- 4 CONTROLS AND FUNCTIONS
- 5 OPERATIONS
 - 5.1 Programming
 - 5.2 Editing
 - 5.3 Running
 - 5.4 MIDI
- 6 BRIEF OF MAIN FUNCTIONS
- 7 TECHNICAL SPECIFICATIONS
- 8 Documents / Resources



FOS technologies Fader Desk 48 Console



FOS Fader Desk 48 – USER'S MANUAL

GENERAL DESCRIPTIONS

Thank you for purchasing our products again. To optimize the performance of this unit, please read these operating instructions carefully to familiarize yourself with the basic operations. This unit has been tested at the factory before being shipped to you, there is no assembly required. Its features include:

- 48 DMX control channels
- 96 chaser programs
- 2 Independent cross-faders access to control all channels
- 3 Digit LCD display
- Digital technology adopted
- Power failure memory
- Standard MIDI and DMX ports
- Powerful program edit
- Various running type
- More programs can run synchronously

Please keep this manual on a safety place after reading, so that you may consult it for further information in the future.

WARNINGS

1. To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Clearing memory often may cause damage to the memory chip, be careful not to initialize your unit frequency often to avoid this risk.
3. Only use the recommended AC/DC power adaptor.
4. Be sure to save the packing carton in case you may ever have to return the unit for service.
5. Do not spill other liquids or water into or onto your amplifier.
6. Be sure that the local power outlet match that or the required voltage for your amplifier.
7. Do not attempt to operate this unit if the power cord has been frayed or broken. Please route your power cord out of the way of foot traffic.
8. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
9. Disconnect from main power before making any type of connection.
10. Do not remove the top cover under any conditions. There are no user serviceable parts inside.

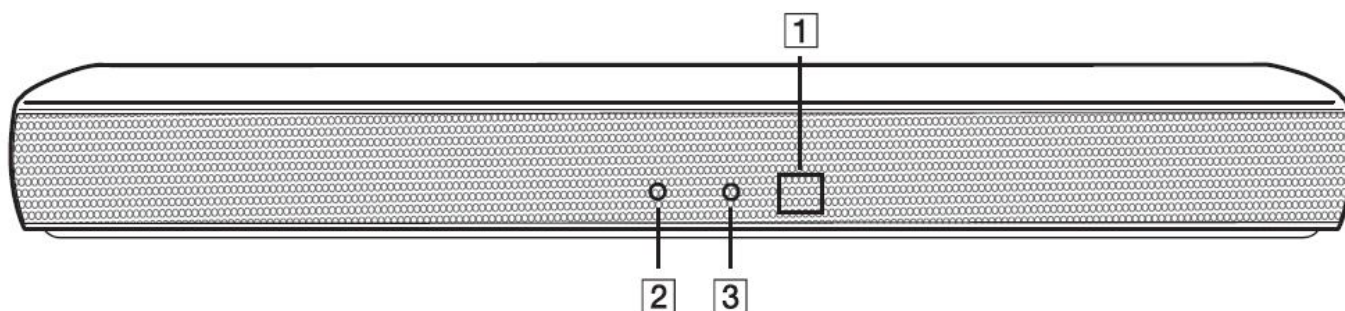
11. Disconnect the unit's main power when left unused for long periods of time.
12. This unit is not intended for home use.
13. Carefully inspect this unit for damage that may have incurred during shipping. If the unit appears to be damaged, do not attempt any operation, please contact your dealer.
14. This unit should be operated by adults only, never allow small children tamper or play with this unit.
15. Never operate this unit under the following conditions:
 - In places subject to excessive humidity
 - In places subject to excessive vibration or bumps
 - In area with a temperature over 45°C/113°F or less than 20°C/35.6°F

CAUTIONS

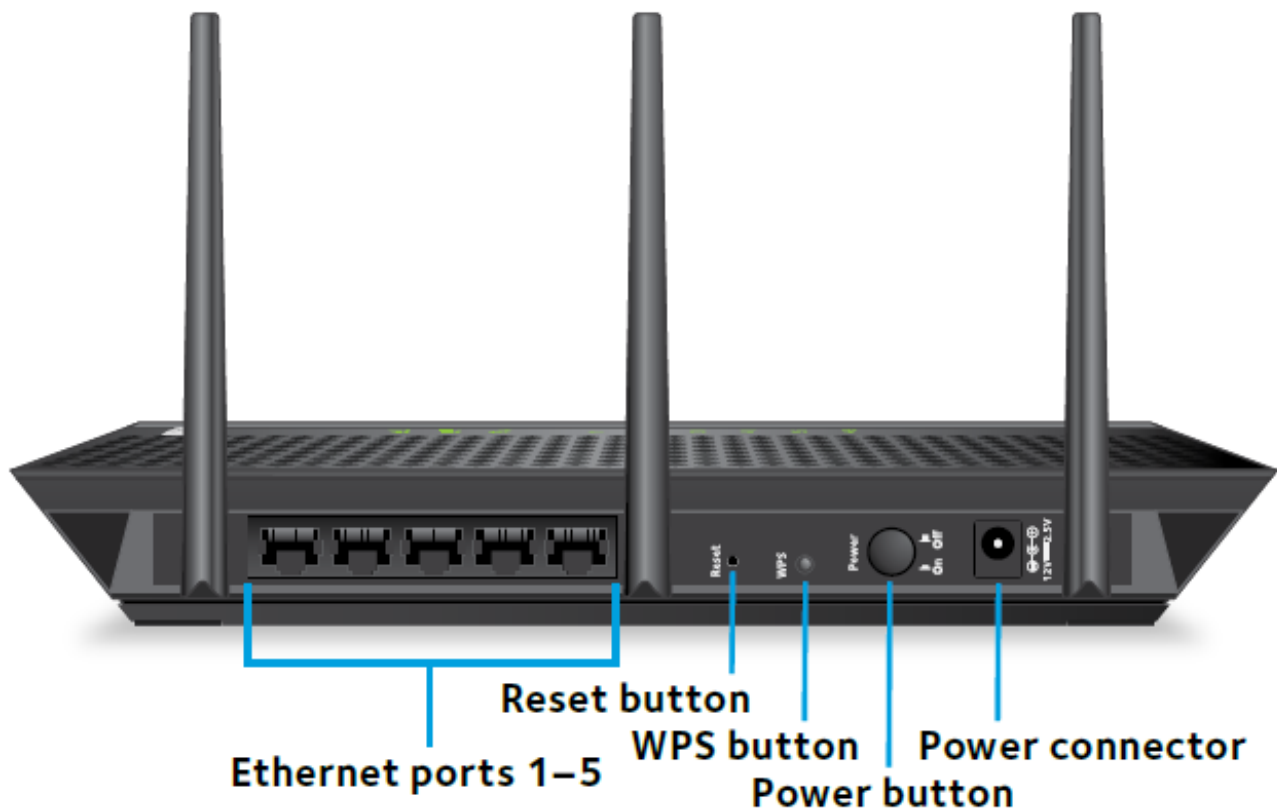
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3. In the unlikely event your unit may require service please contact your nearest dealer.

CONTROLS AND FUNCTIONS

Front Panel



Rear Panel



DC INPUT MIDI ON OFF DC 12V 20V THRU OUT IN 500 mA min DMX OUT AUDIO REMOTE FOG MACHINE
 1=Ground 2=Data+ 3=Data- 1=Ground 2=Data+ 3=Data- DMX polarity select LINE IN 100mV 1Vp-p 1/4stereo jack
 Full on Stand By or Black Out GND 35 36 37 38 39 40 41 42 1/4 stereo jack.

OPERATIONS

Programming

Record Enable

1. Press and hold down the Record button.
2. While holding down the Record button, tap the Flash buttons 1,6, 6 and 8 in sequence.

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CONTROLS AND FUNCTIONS

Front Panel:



1. **PRESET A LEDs –**
Show the current intensity of the relevant channel numbered from 1 to 24.
2. **Channel Sliders 1-24 –**
These 24 sliders are used to control and /or program the intensities of channels 1- 24.
3. **Flash Buttons 1-24 –**
These 24 buttons are used to bring an individual channel, to full intensity.
4. **PRESET B LEDs –**
Show the current intensity of the relevant channel numbered from 25-48.
5. **SCENE LEDs –**
Light when relevant scenes are active.
6. **Channel Sliders 25-48 –**
These 24 sliders are used to control and /or program the intensities of channels 25- 48.
7. **Flash Buttons 25-48 –**
These 24 buttons are used to bring an individual channel, to full intensity. They also are used for programming.
8. **DARK Button –**
This button is used to momentarily black out overall output.
9. **DOWN/BEAT REV. Button–**
DOWN functions to modify a scene in Edit mode, BEAT REV. is used to reverse the chasing direction of a program with regular beat.
10. **MODE SEL./REC. SPEED Button –**
Each tap will activate the operating mode in the order: CHASE/SCENES, D.(Double) PRESET and S.(Single) PRESET. REC. SPEED: Set the speed of any of the programs chasing in Mix mode.
11. **UP/CHASE REV. Button –**
UP is used to modify a scene in Edit mode. CHASE REV. is to reverse the chasing direction of a scene under Speed Slider control.
12. **PAGE Button –**
Tap to select pages of scenes from Page 1-4.
13. **DEL./REV. ONE Button –**
Delete any step of a scene or reverse the chasing direction of any program.
14. **3 Digit Display –**
Shows the current activity or programming state.
15. **INSERT / % or 0-255 Button–**
INSERT is to add one step or steps into a scene. % or 0-255 is used to change display value cycle between % and 0-255.
16. **EDIT/ALL REV. Button –**

EDIT is used to activate Edit mode. ALL REV. is to reverse the chasing direction of all programs.

17. ADD or KILL/REC. EXIT Button–

In Add mode, multiple scenes or Flash buttons will be on at a time. In Kill mode, pressing any Flash button will kill any other scenes or programs. REC. EXIT is used to exit from Program or Edit mode.

18. RECORD/SHIFT Button–

RECORD is used to activate Record mode or program a step. SHIFT functions only used with other buttons.

19. MAS. A Button –

Brings channel 1-12 to full of current setting.

20. PARK Button –

Used to select Single/Mix Chase, bring Channel 13-24 to full of current setting, or momentarily program a scene into Master B slider, depending on the current mode.

21. HOLD Button –

This button is used to maintain current scene.

22. STEP Button –

This button is used to go to next step when the Speed Slider is pushed to the bottom or in Edit mode.

23. AUDIO Button –

Activates audio sync of chase and audio intensity effects.

24. Master A Slider –

This slider controls overall output of all channels.

25. Master B Slider–

This slider controls the chase of all channels.

26. BLIND Button –

This function takes the channel out of the chase of a program in CHASE/SCENE mode.

27. HOME Button –

This button is used to deactivate the Blind.

28. TAP SYNC. Button –

Repeatedly tapping this button establishes the chase speed.

29. FULL-ON Button –

Tap this button will bring overall output to full intensity.

30. BLACK-OUT Button –

This button is used to kill all output with exception for that resulting from Flash and Full On.

31. FADE Slider –

Used to adjust the Fade Time.

32. SPEED Slider –

Used to adjust the chase speed. Move this slider to all the way down till the 3 digit LCD display reads SHO will enter into Show Mode, in which mode the chase action will pause.

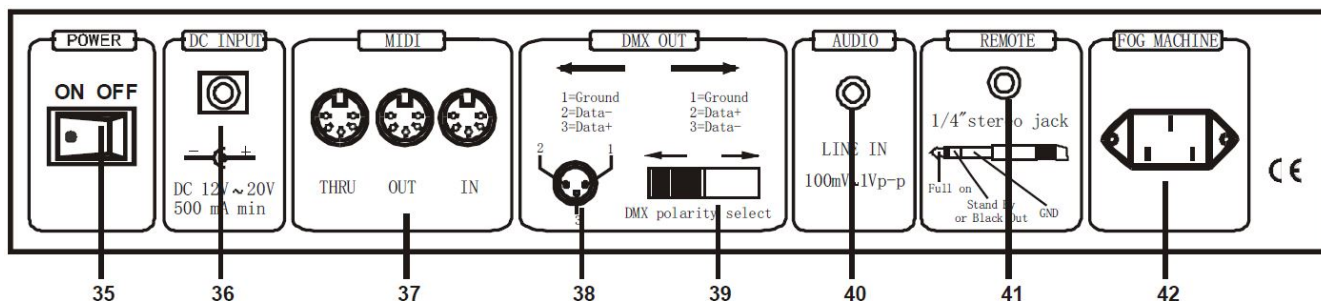
33. AUDIO LEVEL Slider –

This slider controls the sensitivity of the Audio input.

34. FOGGER Button –

When the upper READY LED illuminates, press this button to control the attached fog machine for fogging.

Rear Panel:



35. Power Switch –

This switch controls turning on or off the power.

36. DC Input –

DC 12-20V, 500mA Minimum.

37. MIDI Thru./Out/In –

MIDI ports for connection to a sequencer or MIDI device.

38. DMX Out –

This connector sends your DMX value to the DMX fixture or DMX pack.

39. DMX Polarity Select –

Used to select DMX polarity.

40. Audio Input –

This jack accepts a line level audio input signal ranged from 100mV to 1V pp.

41. Remote Input –

Black Out and Full On may be controlled by a remote control using a standard 1/4" stereo jack.

OPERATIONS

Programming

Record Enable

1. Press and hold down the Record button.
2. While holding down the Record button, tap the Flash buttons 1, 6, 6 and 8 in sequence.
3. Release the Record button, the Record LED lights up, now you can begin programming your chase patterns.

NOTE:

The first time you turn on your unit, the default setting of the Record Code is Flash buttons 1, 6, 6 and 8. You may change the Record Code to protect your programs.

Security for Your Programs

To protect your programs from any editing by others, you may change the Record Code.

1. Enter current Record Code (Flash buttons 1, 6, 6 and 8).
2. Press and hold down the Record and Edit buttons at a time.
3. While holding the Record and Edit buttons, tap the desired Flash button to enter a new Record Code.
The Record Code consists of 4 Flash buttons(the same button or different buttons), be sure your new Record Code consists of 4 Flash buttons.
4. Enter your new Record Code a second time, all channel LEDs and scene LEDs will flash three time, now the

Record Code is changed.

5. Exit Record mode. Tap the REC. EXIT button while pressing and holding down the Record button, release the two buttons at a time, the Record mode is disengaged.

IMPORTANT!!!

Always remember to exit Record mode when you won't continue your programming, otherwise you may lose control of your unit.

NOTE:

The second time you enter your new Record Code different from that of the first time, the LEDs will not flash, which means you've failed to change the Record Code.

When you enter a new Record Code the first time, provided that you want to cancel the new Record Code, press and hold down the Record and Exit buttons at a time to exit.

Program Scenes


1. Record Enable.
2. Select the 1-48 Single mode by tapping the Mode Select button. This will give you control of all 48 channels as you program.
Be sure that Master A & B are both set at maximum. (Master A is at its maximum when positioned all the way up, while Master B is at its maximum when positioned all the way down.)
3. Create a desired scene using Channel Sliders 1-48. At 0% or DMX 255, these sliders should be at 10 position.
4. Once the scene is satisfactory, tap the Record button to program the scene as a step into the memory.
5. Repeat step 3 and 4 until all desired steps have been programmed into memory. You may program up to 1000 steps into memory.
6. Select a chase bank or scene master to store your program. Tap the Page button select a page (Page 1-4) to store your scenes.
7. Press a Flash button between 25-48 while holding down the Record button. All LED will flash indicating the scenes have been programmed into memory.
8. You can continue programming or exit. To exit Program mode, tap the Exit button while holding down the Record LED should go out.

EXAMPLE: Program a 16 steps chase with channel 1-32 at full in sequence and assign into Flash button 25 of Page 1.

1. Record enable.
2. Push Master A & B to maximum position and Fade slider to top.
3. Tap the Mode Select button to select 1-48 Single mode.
4. Push Channel slider 1 to the top position, its LED light at full intensity.
5. Tap the Record button to program this step into memory.
6. Repeat steps 4 and 5 until you've programmed Channel sliders 1-32.
7. Tap the Page button causing Page 1 LED lights.
8. Tap the Flash button 25 while holding down the Record button, all LEDs will flash indicating you've programmed the chase into memory.

Editing

Edit Enable

1. Record enable.
2. Use the Page button to select the page the program you wish to edit is on.
3. Tap the Mode Select button to select CHASE  SCENES.
4. Press and hold down the Edit button.
5. While holding down the Edit button, tap the Flash button that corresponds to program you wish to edit.
6. Release the Edit button, the relevant scene LED should light indicating you are in the Edit mode.

Erase a Program

1. Record enable.
2. Use the Page button to select the page that the program you wish to erase is on.
3. While holding down the Edit button, tap the Flash button (25-48) twice.
4. Release the two buttons, all LEDs flash, indicating the program is erased.

Erase All Programs

1. Press and hold the Record button.
2. Tap the Flash buttons 1, 4, 2 and 3 in sequence while holding the Record button. All LEDs will flash, indicating all programs stored in memory have been erased.


Clear a Scene or Scenes

1. Record enable.
2. Record a scene or scenes.
3. If you are not satisfied with the scene or scenes, you may tap the Rec. Clear button while pressing and holding the Record button, all LEDs will flash, indicating the scenes have been cleared.

Delete a Step or Steps


1. Record enable.
2. Tap the Step button to scroll to the step you wish to delete.
3. Tap the Delete button when you reach to the step you wish to delete, all LEDs will flash briefly indicating the deletion of the step.
4. Continue steps 2 and 3 until all the unwanted steps have been deleted.
5. Tap the Rec. Exit button while pressing and holding down the Record button, the Scene LED goes out, indicating the exit of Edit mode.

EXAMPLE: Delete the 3rd step of the program on Flash button 25 on Page 2


1. Record enable.
2. Tap the Mode Select button to select CHNS  SCENE mode.
3. Tap the Page button until Page 2 LED lights.

4. Tap the Flash button 25 while pressing and down the Edit button, the Scene LED lights.
5. Tap the Step button to scroll to the third step.
6. Tap the Delete button to delete the step.
7. Tap the Rec. Exit button while pressing and holding down the Record button to exit Edit mode.

Insert a Step or Steps

1. Record a scene or scenes you wish to insert.
2. Be sure you're in and CHASE  SCENE Enter the Edit mode.
3. Tap the Step button to scroll to the step which you wish to insert before.
You may read the step from the Segment Display.
4. Tap the Insert button to insert the step you've created, all LEDs will flash, indicating the step is inserted.
5. Exit Edit mode.

EXAMPLE: Insert a step with channels 1-12 fully on at a time between step 4 and 5 of program 35.


1. Record enable.
2. Push Channel sliders 1-12 to the top and record the scene as a step.
3. Tap the Mode Select button to select CHNS  SCENE mode.
4. Tap the Page button until Page 2 LED lights.
5. Tap the Flash button 35 while holding down the Edit button, the corresponding scene LED lights.
6. Tap the Step button to scroll to the step 4.
7. Tap the Insert button to insert the scene you've created before.

Modify a Step or Steps

1. Enter Edit mode.
2. Tap the Step button to scroll to the step you wish to modify.
3. Press and hold the Up button if you want to raise the intensity. If you want to lower the intensity, press and hold down the Down button.
4. While holding down the Up or Down button, tap the Flash button corresponding to the DMX channel of the scene you wish to modify until you reach the desired intensity value read from the Segment Display. Then you may tap the Flash buttons until you are satisfied with the new scene.
5. Repeat steps 2, 3 and 4 until all the steps have been modified.
6. Exit Edit mode.

Running

Running Chase Programs

1. Tap the Mode Select button to select CHNS  SCENES mode indicated by the red LED.
2. Tap the Page button to select the correct page the program you wish to run is located.
3. Push Master Slider B to its maximum position(fully down).

4. Move the desired Channel slider (25-48) to its maximum position to trigger the program, and the program will fade in depending upon current fade time.
5. Move the Channel slider to adjust the output of the current program.

Running a Program To Audio

1. Use built-in microphone or plug the audio source into the RCA Audio jack.
2. Select your program as described above.
3. Tap the Audio button until its LED lights, indicating Audio mode is active.
4. Use the Audio level slider to adjust the music sensitivity.
5. To return to normal mode, tap the Audio button a second time causing its LED goes out, the Audio mode is disengaged.


Running a Programs With the Speed Slider

1. Be sure the Audio mode is disengaged, that is the Audio LED goes out.
2. Select your program as described above.
3. Move the Speed slider to the SHOW MODE position (the button), then tap the Flash button (25-48) while pressing and holding down the Rec. Speed button, the corresponding program will not run with the Standard beat any longer.
4. Now you may move the Speed Slider to select your desired speed.

NOTE:

The step 3 is not necessary if the selected program is not recorded with Standard Beat.

Running a Programs With the Standard Beat

1. Be sure the Audio mode is disengaged. Tap the Mode Select button to select CHASE  SCENE mode.
2. Tap the Park button to select Mix Chase mode, the LED lights indicating this selection.
3. Select your program as described above.
4. Move the Speed slider until Segment Display reads your desired value. You may tap the Tap Sync button twice to define your beat time.
5. While pressing and holding down the Rec. Speed button, tap the Flash button(25-48) that stores the program.
6. The program will then run with the set time or beat when engaged.
7. Repeat steps 4 and 5 to set a new beat time.

Chang the Speed Mode between 5 Minutes and 10 Minutes

1. Press and hold the Record button.
2. Tap the Flash button 5 or 10 three times while holding down the Record button.
3. The 5 MIN or 10 MIN should light up indicating the Speed slider is set to run in the 5 or 10 minute mode..

MIDI

Setting MIDI IN

1. Tap the Flash button 1 three times while holding down the Record button, the Segment Display reads “CHI” indicating MIDI IN channel setup is available.
2. Tap the Flash button numbered from 1-16 to assign MIDI IN Channel 1-16, the relevant channel LED lights indicating MIDI IN channel is set.

Setting MIDI OUT

1. Tap the Flash button 2 three times while holding down the Record button, the Segment Display reads “CHO” indicating MIDI IN channel setup is available.
2. Tap the Flash button numbered from 1-16 to assign MIDI OUT Channel 1- 16, the relevant channel LED lights indicating MIDI OUT channel is set.

Exit MIDI Setting

Press and hold down the Record button. While holding down the Record button tap the Rec. Exit button to exit MIDI setting.

Receiving MIDI File Dump

Tap the Flash button 3 three time while holding down the Record button, the Segment Display reads “IN” indicating the controller is ready to receive MIDI file dump.

Sending MIDI File Dump

Tap the Flash button 4 three time while holding down the Record button, the Segment Display reads “OUT” indicating the controller is ready to send a file.

NOTE:

During file dump, all other operations will not function. Functions will automatically return when the file dump is completed. File dump will be interrupted and stop if errors occur or power failure.

Implementation

1. During receiving and sending MIDI data, all MIDI scenes and channels being run will automatically paused if there is no response within 10 minutes.
2. During receiving and sending file dump, the controller will automatically search for or send Device ID of 55h(85), a file named DC2448 with an extension of “BIN(SPACE)”.
3. File dump allows this controller to send its MIDI data to next unit or other MIDI devices.
4. There are two types of file dump mode described as below:



5. The controller will send and receive Note On Off data via the Flash buttons.

NOTE NUMBER		VELOCITY	FUNCTION
Decimal	Hex		
22-69	[16H-45H]	Program master channel light	Turn on or off program 1-48
22-117	[16H-45H]		activate Channel 1-48
118	[76H]		FULL-ON
119	[77H]		DARK
120	[78H]		HOLD
121	[79H]		Turn on or off AUDIO
122	[7AH]		CHASE◀▶ SCENES
123	[7BH]		D. (double) PRESET Mode
124	[7CH]		S. (single) PRESET Mode
125	[7DH]		Step
126	[7EH]		BLACK-OUT

BRIEF OF MAIN FUNCTIONS

Reverse the direction of the scene

1. Reverse the direction of all the scenes. Press the ALL REV Button, all the scenes should change their directions.
2. Reverse the chasing direction of all the programs with speed control: Press the Chase Rev Button.
3. Reverse the chasing direction of all the programs with standard beat: Press the Beat Rev Button.
4. Reverse chasing direction of any program: Press and hold down the Rec.

One Button, then press down the Flash Button corresponding to your desired program and release together.

Fade time

1. The amount of time that it will take for the dimmer to go from zero output to maximum output, and vice verse.
2. Fade time is adjusted through the Fade Time Slider, which varies from instant to 10 minutes.

Tap Sync Button

1. The Tap Sync button is used to set and synchronize the chase rate (the rate at which all scenes will sequence) by tapping the button several times. The chase rate will synchronize to the time of the last two taps. The LED above the Step Button will flash at the new chase rate. The chase rate may be set anytime whether or not a

program is running.

2. Tap Sync will override any previous setting of the speed slider control until the slider is moved again.
3. Use of Tap Sync in setting a standard beat is the same with speed control slider.

Master Slider

Master Slider control provides proportion level control over all channels and scenes with the exception of the Flash Buttons. For example:


Whenever the Master slider control is at minimum all stage outputs will be at zero except for any resulting from a Flash Button or FULL ON Button.

If the Master is at 50%, all outputs will be at only 50% of the setting of current channel or scenes except for any resulting from a Flash Button or FULL ON Button.


If the Master is at full all outputs will follow the unit setting.

Master A always controls outputs of channels. Master B controls program or a scene except in Double Press Mode.

Single Mode

1. All programs will run in sequential order starting in the order of program number.
2. The 3 digit LCD display will read the running program number.
3. All programs will be controlled by the same Speed Slider.
4. Press the MODE SEL. Button and select "CHASE  SCENES".
5. Press the PARK Button to select SINGLE CHASE MODE. A red LED will indicate this selection.

Mix Mode

1. Will run all programs synchronously.
2. All programs can be controlled by the same SLIDER SPEED, or each programs speed may be controlled individually. (See Speed Setting).
3. Press the MODE SEL. Button and select "CHASE  SCENES".
4. Press the PARK Button to select MIX CHASE MODE. A yellow LED will indicate this selection.

Dimmer Display

1. The 3-Digit LCD display is used to display intensity percentage or absolute DMX value.
2. To change between percentage and absolute value: Press and hold the Shift Button. While holding down the Shift button press the 5 or 0-255 Button to switch between percentage and absolute values.
3. If the Segment Display reads, for example, "076", it means a percentage value 76%. If the Segment Display reads "076", it means the DMX value 76.


Blind and Home

1. Blind function takes channels temporarily out from a chase, when the chase is running, and gives you manual control over the channel.
2. Press and hold the Blind Button and tap the relative Flash Button you want to temporarily take out of the chase.
3. To return to normal chase again press and hold the Home Button and push the Flash Button you want to return to normal chase.

TECHNICAL SPECIFICATIONS

- Power Input DC 12~18V 500mA Min.
- DMX Out3 pin male XLR socket x 1
- MIDI In/Out/Thru.....5 pin multiple socket
- Dimensions 710x266x90mm
- Weight6.3 Kgs

Documents / Resources

	FOS technologies Fader Desk 48 Console [pdf] User Manual Fader Desk 48, Fader Desk 48 Console, Console
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