

LED CONTROLLER

ITEM No.: DMX512-192C

DMX512-192C controller



User manual

VER:2.0

PLEASE READ USER MANUAL

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192channel scanners or other equipment, chase program and manual control of scanners can be performed at the same time. the functions are compact and convenient and flexible operation made it handled very easily suitable for different ballroom, taproom and small show.

Technical specifications

Output signal	DMX512
DMX channels	1- 192
Maximum control channel amount a scanner	16
Control amount of scanners	12
Amount of chase	12
Maximum chase steps in a chase	100
Amount of scanner scene	100
Running scene directly	12
Manual operation of scanner	Yes
Music run	Yes
Blackout function	Yes
Time of running chase can be adjust	Yes
Cross of running chase can be adjust	Yes
Display mode	LED digit display
Port of DMX output	XLR-D3F
Power supply	AC90-240V,50/60Hz,4W
Size	53.5*18.5*10CM
Weight	2.5KG

Cautions of safety

- ◆ 192Ccontroller must be connected to the earthground to ensure the safety of user
- ◆ When 192controller are working don't plug in or plug out DMX 512 cable to avoid destroying the electronic components of the port in the controller.
- ◆ Don't splash any liquid to the controller to avoid destroying the electric components and the functions of the controller
- ◆ The scanner controller is precision electric equipment. please pay attention to moistureproof protection and dustproof. And please clean the controller panel termly.

Installation of controller

Contents in the package of 192scanner controller

- ◆ 192Cscanner controller: 1
- ◆ Power supply line :1
- ◆ User manual : 1

Installing structure of 192scanner controller follows the international standard "19" 3U.it can be

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embedded in operation board or directly installed in 19 shelf or cabinet.

The power of 192 scanner controller has steady voltage output in so wide range of power supply voltage that it is adopt to the power supply of all the world .before the power supply is connected ,please check whether the voltage is in normal range of 192

When the fuse needs to be replaced, please use the fuse with with the current capacity of 1A on the rear of the 192

Connecting to scanner

According to DMX512 protocol , DMX signal cable must be screened twist cable with impedance of 120Ω. In practical engineering installation, if the whole length of the cable is short, the cable may be replaced by high quality screened two core microphone cable.

User joins each end of the cable to a XLR plug. Foot 1 of the XLR plug is connected to the screen net of the cable. Twist lines (distinguished by different colors) are connected to foot 2 and 3. Foot 3 is signal + and foot 2 is signal - . Foot 2 and foot 3 of the plug cannot be confused.

To ensure correct DMX signal transmission, an 120Ω terminal matching resistance must be connected to the last equipment to absorb terminal signal reflection. The operation is as following: connect a 120Ω resistance to foot 2 and foot 3 of a plug then plug it to the output of the last scanner (or other equipment).

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Address distribution of DMX512

192 scanner controller utilizes channel 1 - 192 of DMX512 to transmit the control signals to various scanners. Each scanner is fixed with 16 control channels.

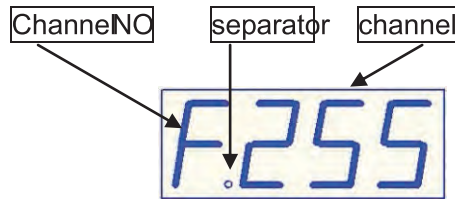
Scanner NO	First DMX address of scanner	
	Decimal code	Switch bit of scanner address
		123456789
1	1	100000000
2	17	100010000
3	33	100001000
4	49	100011000
5	65	100000100
6	81	100010100
7	97	100001100
8	113	100011100
9	129	100000010
10	145	100010010
11	161	100001010
12	177	100011010

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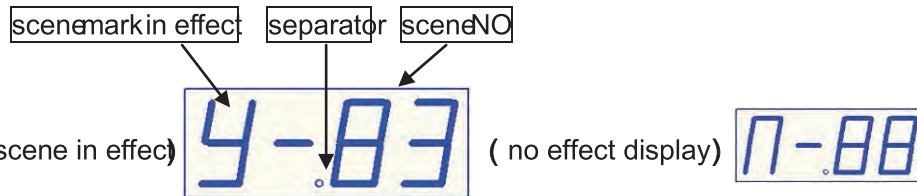
Digit display instruction

1) Running scene and manual operation display:



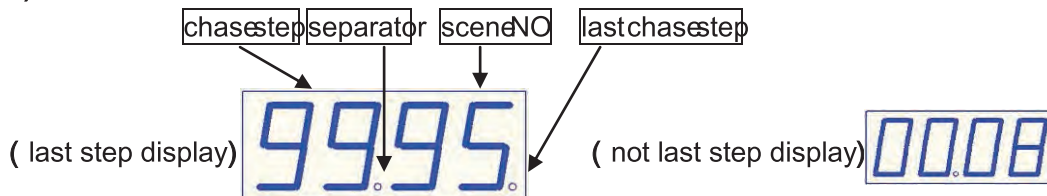
- 1) Channel NO—display the channel of current faded correspond 16 channel.
- 2) Channel—display the current input channel value (range: 000-255).
- 3) Separator—used in distincting different content

2) 點位湧口挽ne 潰e牡ti潮 摩擗I熱 :



- 1) Scene mark in effect—the content of choosing the scene (Y means 'Yes', N means 'NO').
- 2) scene NO—display the editing scene (range: 00-99)
- 3) Separator—used in distincting different content

3) 點位口施口晦湏湧口潺s 捨慳e口蠱牡ti潮 摩擗I熱 :



- 1) Chase step—the editing chase step N (range: 00-99).
- 2) Scene NO—the scene will save in the chase step (range: 00-99).
- 3) Last chase step—the step is the last chase step
- 4) Separator—used in distincting different content
- 5) no chase display—no content in the chase (as follows).



Description rules

- 1) xxx mean key, switch or channel fader for example: "Chase".
- 2) ◀Step, Step▶, ◀Scene和 Scen▶ keys in the following text, respectively, also referred to as A, B, C and D key,

Because the four buttons are regarded Composite function keys they can also correspond to a state of expression of the corresponding functions

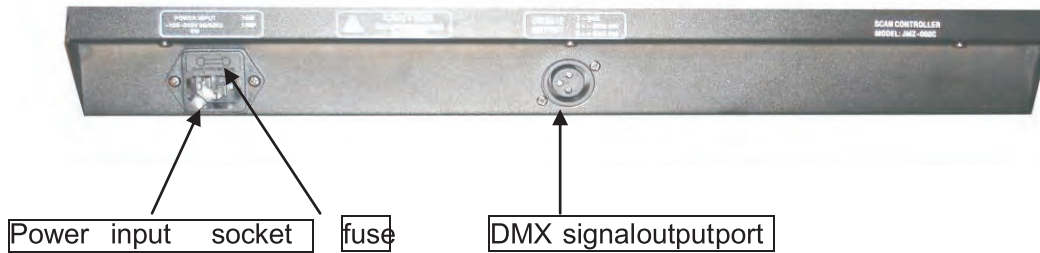
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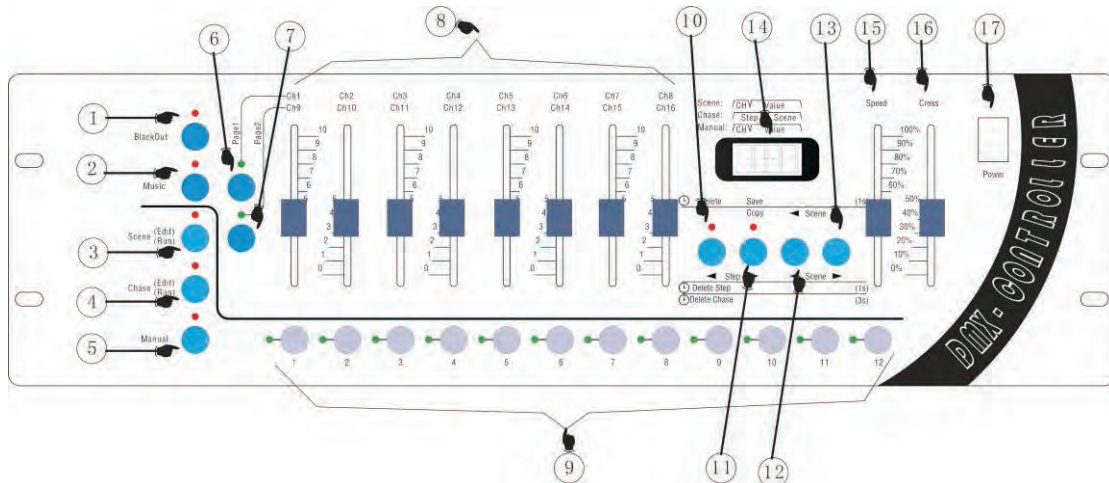
3) in the Schematic diagram of the operation Circle with the number of steps means a tone relationship in explaining the steps and the schematic diagram of the serial number of the serial number for

Example : “①” or “1) ” ; in “①” and “1) ” are Consistent both mean first step or No. 1

Rear instruction



Panel instruction



- 1) **BlackOut** Output black keys, pressing the button make light off. when the control output value of Platform, all channels to 0, resulting in black scenes
- 2) **Music** Voice-activated key , pressing the button make light on , Running the program is triggered by the built-in microphone to run
- 3) **Scene Edit / Run** Scene Editor / run key, if pressing time is more than 1 seconds, the indicator light flashes into the scene editor state; then if pressing for 1 second again will withdrawn from editing the state to the running state, Bright light is always on
- 4) **Chase Edit / Run** walking light program editor / run key, if pressing time is more than 1 seconds, the indicator light flashes into the scene editor state; then if pressing for 1 second again will withdrawn from editing the state to the running state, Bright light is always on
- 5) **Manual** Manual control key
- 6) **Page 1** Access keys page 1
- 7) **Page 2** Access keys page 2
- 8) **Ch1/Ch9 Ch8/Ch16** Channel fade (page one -8 / page two -16)
- 9) **1-12** The number keys-12 (Used to select the No. field, and follow procedures and signal lights to choose)
- 10) **Step** key is called as a key (run) Operation to remove lantern; (edit scenes) deleted scenes;

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- 1-2 runtime for the process step-by-step shows the current output, the first 4 bit digital control for step-by-step procedures to preserve the scene in the show its
- ③ Manual control with digital display that's just the first for a digital control channel number CH fader shows that the first 4 fader bit digital control input values to show
 - ④ Delay icon button operations said that the function of the corresponding output press and hold, through a period of time after the delay generated by
 - ⑤ Button to operate the time delay value there is 1 second and 3 seconds

A, B, C, D four key scenes in the editing and editing, respectively,

under the procedure menu

button function		A key	B key	C key	D key
		Edit scene	No delay	--	Copy Scene copy
Delay 1S	Delete delete scene		Save scene preservation	--	
Edit program	No delay	◀ Step Step forward the election process	Step ▶ Backward step-by-step selection procedure	◀ Scene No. scenes to move the election	Edit program
	Delay 1S	Delete Step Delete the current step-by-step procedures	--	--	
	Delay 3S	Delete Chase Delete the current procedures	--	--	
Manual lantern	No delay	to clear the state of lantern	--	--	Manual lantern

A, B, C, D four key scenes in the editing process and editing of the

functional state of operation

- I) Scenes in the editing function of the state of operation
- A) Scene copy function (Note: pressing time of less than 1 second)
- 1) Use **C, D** key to Select the scene to be copied (No. bit digital tube will display the number of the scenes)
 - 2) Press **B** key make the light bright;
 - 3) use **C, D** key to choose to paste No. scenes, the scenes will be changed (No. bit digital

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- tube will display the number of the scenes)
- 4) press **B** key To make light out on the scene to complete replication process, the latter scenario will be chosen before the contents of a scene instead of
 - B) Save the scene features (Note: pressing time is greater than 1 second):
Press the B button for more than 1 second, the indicator light on the **editorial** content is saved to the scene of the **Time** controlled memory.
 - C) to remove scenes feature (Note: pressing time is greater than 1 second):
Press the B button for more than 1 second, the indicator light on the current content has been edited **to** remove scenes.

II) in the editorial functions of the state of operation:

A) the selection process **step**-step with the scene number (Note: pressing time of less than 1 second):

1) A, B button for forward and backward step selection **process**, when the final **step**-by-step process occurs, then B button you can add a new procedure after the **step**-by-step.

2) C, D keys used to select the step number to preserve the scene.

B) Remove Programs Step (Note: press time more than 1 seconds **same** 3 seconds):

Press the A button for more than 1 second, the indicator light shows the current process **step**-by-step from the procedure was removed.

C) to remove the current procedure (Note: more than 3 seconds press time):
Press the A button for more **than** 3 seconds, indicator light will change the course of two shows that the current process is removed, this **4** **bit** digital tube displays "00", the first **bit** digital tube display **3** **"--"**.

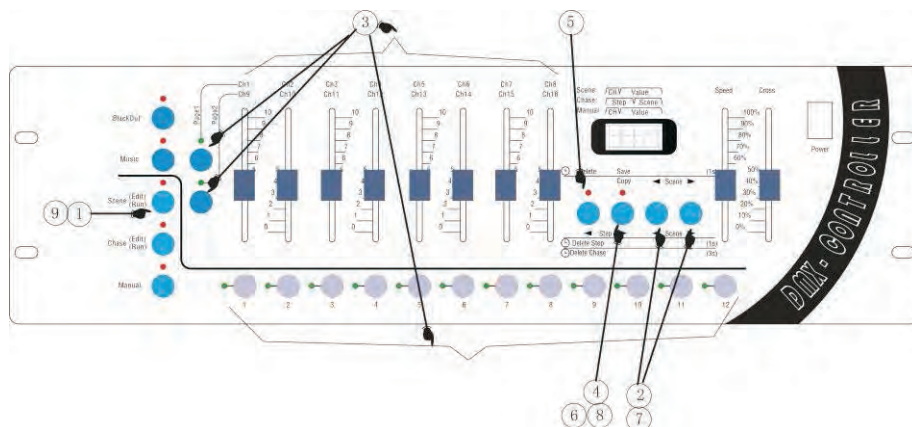
III) the functions of the state of manual **steps**:

A) Clear lantern status:

Running mode, press the A button used to clear the current output lantern.

Edit scene

1) the schematic diagram of the edit scene **panel** :



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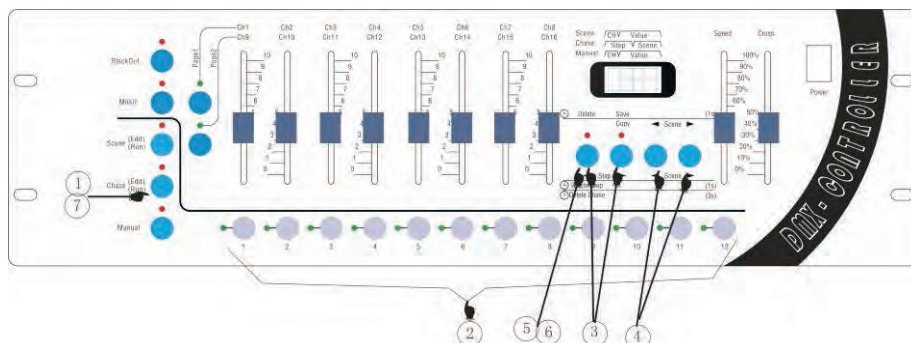
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The definition of the process steps of the edit SCEN:

- ① Press SCENE button in excess of second the indicator light glittering, enter the edit scene state.
- ② Use the ◀Scene & Scene▶ button to choose the scene serial number;
 - If want to edit the current scene, then run the step 3;
 - If want to delete the current scene, then run the step 5;
 - If want to copy the current scene, then run the step 7.
- ③ Edit the current scene: use the number buttons to choose the light number, then with the cooperation of the Page1 & Page2 button, use the handspike Ch1/Ch9-Ch8/Ch16 to set the value of each channel;
- ④ Save the editing scene: press the SAVE button in excess of second when the panel indicator light and the screen glitter on the current editing scene is saved;
 - If want to continue to edit other scene, run the step 2, choose another scene to edit; or run the step 9 to exit the editing scene state.
- ⑤ Delete the current scene: press the DELETE button in excess of second when the lighting of the indicator light implies that the current scene is deleted.
 - If want to continue to edit other scene, run the step 2, choose another scene to edit; or run the step 9 to exit the editing scene state.
- ⑥ Copy the current scene: press the COPY button, until the indicator lighting, enter the copy state, the contents of the current scene as the source of the scene content
- ⑦ Use the ◀Scene & Scene▶ button to choose the scene serial number which is used to store the contents of the scene to copy, the serial number is the target serial number.
- ⑧ Press the COPY button again, the indicator goes out, complete the copy process, then the contents of the source scene to cover the contents of the target scene.
 - If want to continue to edit other scene, run the step 2, choose another scene to edit; or run the step 9 to exit the editing scene state.
- ⑨ Exit the editing scene: press the SCENE button in excess of second the indicator light from glittering to lighting, system switch from editing scene state

Edit chase

1) the schematic diagram of the edit chase panel:



2) 逆ro滅捻i潮 潦敷iti湧 捨慳e:

- ① press Chase over 1 second and the indicator light will flash, meaning that the chase is in editing state (digit will display "CHA", prompting to select Chase number);

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② selecting the number that you want use Num Lock 1-12 to select the chasenumber (if the program is empty ,digit displays"00.--" . if step zero and the number of the saved scene in this step will be displayed ,such as"00,08")

If you want to delete the current chasexecutethe ⑤ step

③ select program step: channels ◀Step and ▶Step keys used to select the step that Program that you want to edit

If you want to delete the current chas please execute the ⑥ step

④ selecting the scene number using ◀Scene and ▶Scene ,to select a scene number and the scene will be saved in the chasestep selected in the ③ step.

If you want to editing other steps of the current chasexecutethe ③ repeatedly,

⑤ deleting current program press Delete key over 3 seconds and the indicator light will flash 2 times, then the current chasewill be deleted (digit will display"00.--")

If you want to editing other steps of the current chasexecutethe ③ repeatedly,

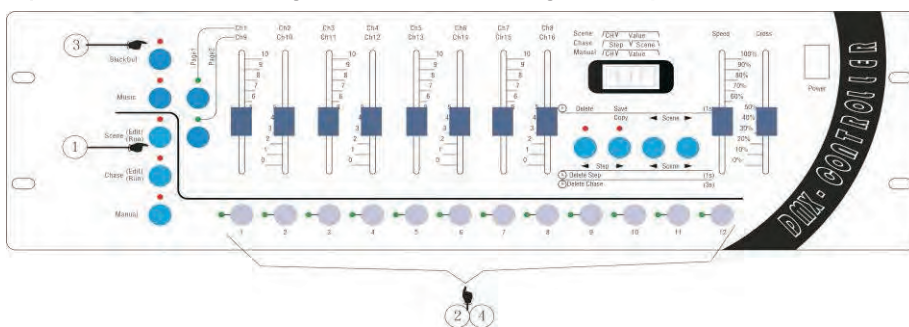
⑥ deleting the current step of the chas: press Delete key over 1 second and the pilot lamp will flash 1 time, then the current step will be deleted

If you want to editing other steps of the current chasexecutethe ③ repeatedly,

⑦ exiting the editing state of the chas of linear light :press Chase key over 1 second ,and the pilot will light constantly after flashing ,then the state will be switched to state of running of the linear light

Running scene

1) the schematic diagram of the running scenepanel :



2) introduction of running scenes step

① press Scene key , and the lights are always on, meaning having entering the state of running scene

② selecting the scene number :use Num Lock 1-12 to choose the number you want

③ if you want to output blackscene ,press blackout and if the indicator light is on ,the effect of black scene is being out ,or the effect is exited

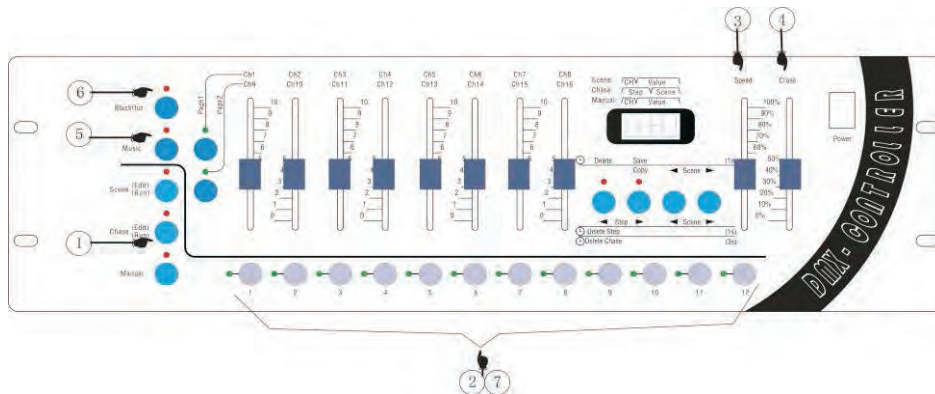
④ close the scene output :use the NumLock to select the number of the scene that you want to close.

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Running chase

1) the schematic diagram of the running chase panel :



2) introduction of running the chase

① press **Chase** to light the indicator light

② select the chase number you want: use Num Lock 1-2 to select the number

③ adjusting the settling time :adjust the clipper **Speed** to adjust the settling time of the chase steps .The top means the shortest time and the bottom the longest

④ adjusting the shading time :adjust the clipper **Cross** to adjust the shading time of the chase step, and .The top means no shading and the more declined the longer shading

⑤ running by sound activated: if you need to activate chase in the way of sound activated ,press **Music** to make the lamp on, meaning having entered the state sound activated, and if the lamp is off ,it means the sound activated state is exited

⑥ Outputting black scene: if you need to output black scene ,press **BlackOut** key so that you can choose to whether output black scene or not

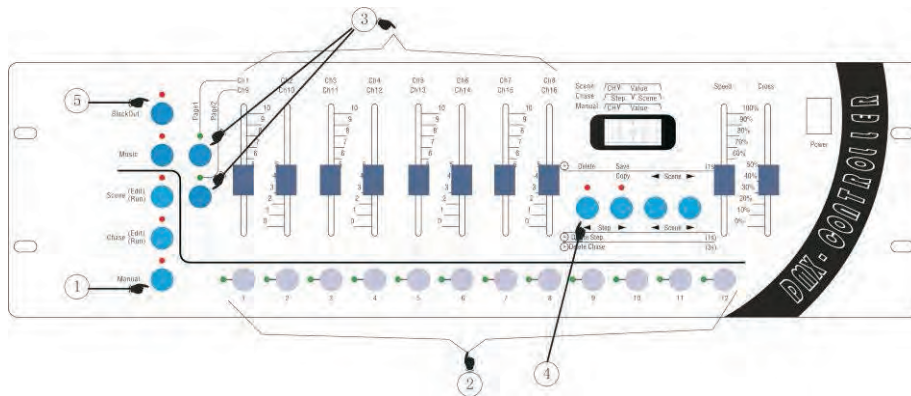
⑦ exiting the running chase use NumLock 1-2 to select the running chase number and the chase will be closed

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manual operation

1) the schematic diagram of the manual operation panel :



2) The definition of the process steps of the manual operation :

- ① Entering the manual state: press **MANUAL** button, make the indicator light constantly shining, enter manual operation state.
- ② Choosing the manual lights: use the number buttons to choose the number of lights.
- ③ Modify the value of the channel of the lights: with the cooperation of **Page1** & **Page2** button and the channel handspike realize the purpose of manual control of the lights. Press **Page1** button, the indicator light on, and spike correspond **Ch1-Ch8**; press **Page2** button, the indicator light on, handspike correspond **Ch9-Ch16**, realize the switch operation of the 16 channels.
- ④ Cleanout the manual state: press **DELETE** button, cleanout the output state which is set on the manual state.
- ⑤ If need the effects of blackout, press **BLACKOUT** button, switch the output