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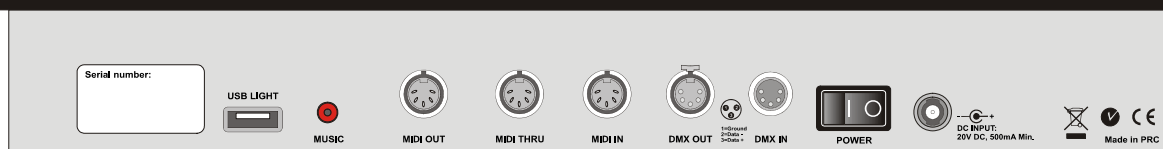
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CONTROL FIVE

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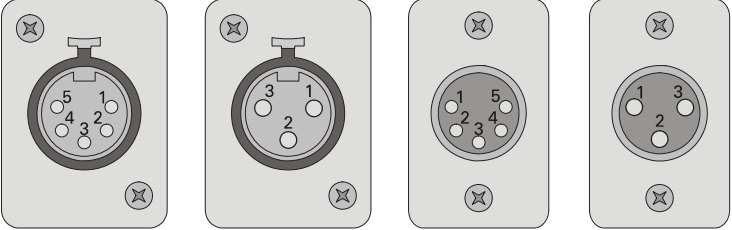


TECHNICAL FEATURES

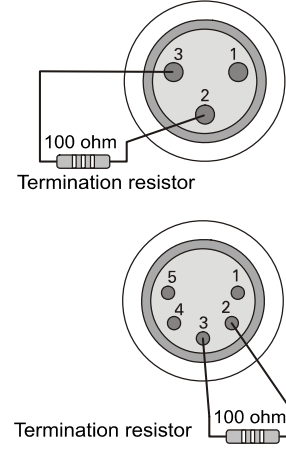
- Full 512 DMX Channels
- Store up to 4000 Scenes
- The scenes can be stored in 100 different programs
- Up to 40 fixtures can be controlled and five groups of fixtures are available
- 32 DMX channels for each fixture
- Each parameter has 8/16 bit resolution
- 16 faders for manual control
- The controller can be synchronized with an external device by MIDI IN, DMX IN or MUSIC IN
- An Incremental cloche is available for precision moving head positioning, with associated two buttons to invert each axis (x – inversion, y – inversion)
- Internal preset are available to create several automatic shapes in very short time
- Each internal preset can be edited and stored in user memory
- Direct access to main functions by individually buttons
- Advanced functions are available by three buttons with dynamical menus
- For every scene are available two timers(WAIT TIME and FADE TIME) to create the fades from a scene to the next one
- An immediate numeric keyboards is used to fast recall programs, steps or assign a numeric value to a parameter (Ex. If you have a 16 BIT parameter on a slider, you can assign a precision 16 BIT value by the numeric keyboard)
- Flash buttons can be used in a dimmer patch or to assign a specific function to the parameter
- Firmware upload via DMX line
- USB connector for DJ work light
- Power failure memory

- **Power input DC 12.24V, 500Ma MIN.**
- **Power supply included**
- **Rack mount – 4 Rack spaces**
- **Dimensions: 530x220x100 (WxDxH)**
- **Weight: 3.5 Kg**
- **120 and 230V operation available**

DMX signal connection

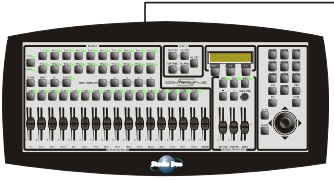


Spot



PIN	WIRE	SIGNAL
1	SHIELD	GROUND/RETURN/OV
2	INNER CONDUCTOR	DATA COMPLEMENT (-, INVERTED)
3	INNER CONDUCTOR	DATA TRUE (+, NON INVERTED)

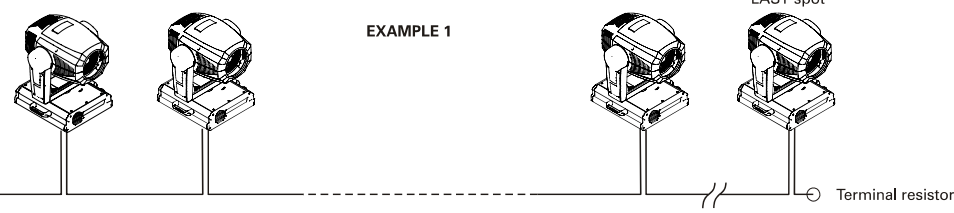
EXAMPLE of connection DMX controller-spot




5

CONTROL FIVE

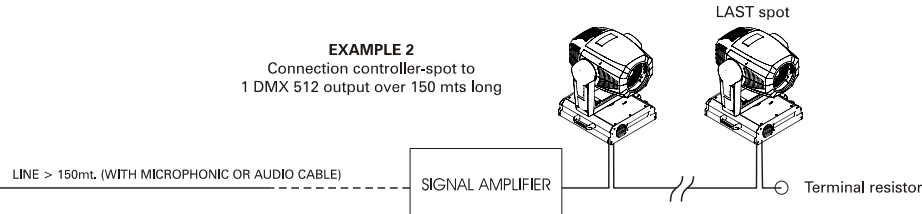
EXAMPLE 1





LINE > 150mt. (WITH MICROPHONIC OR AUDIO CABLE)

EXAMPLE 2
Connection controller-spot to
1 DMX 512 output over 150 mts long



SPOT

1:20	1/21	2/22	3/23	4/24	5/25	6/26	7/27	8/28	9/29	10/30
2:40	11/31	12/32	13/33	14/34	15/35	16/36	17/37	18/38	19/39	20/40

CH PAGE NONE SINGLE SPOT GROUPS

CONTROL FIVE

COPY STEP DEL STEP INS. STEP
 COPY PROG. DEL. PROG.

F1 F2 F3
 MENU/F1 MAN MUSIC

AUTO - + MUSIC LEVEL

EDIT

COPY STEP DEL STEP INS. STEP
 COPY PROG. DEL. PROG.

SEQUENCER

XY INV SHAPES

1 2 3 4 5 6 7 8 9 0
 PROG ESC STEP1 ENTER

CHANNELS

1/17	2/18	3/19	4/20	5/21	6/22	7/23	8/24	9/25	10/26	11/27	12/28	13/29	14/30	15/31	16/32	MASTER
------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	--------



1 - Description of commands

BUTTONS:

- 0 / 9** = Numerical buttons for values setting.
- PROG** = Select a program.
- STEP/.** = On the introduction of several numerical parameter, allow to insert the decimal dot.
- ESC** = To exit.
- ENTER** = To confirm.
- X/Y INV** = To invert axis x/y on the joystick referring to the selected spots.
- SHAPES** = to enable or disable the preset shapes on selected spots..
- MENU/F1, F2, F3** = keys for dynamic menus. Press button MENU/F1 from main screen, to enter in the configuration menus of the controller.
- AUTO** = to select the automatic scrolling of the scenes
- MAN** = to select the manual scrolling of the scenes.
- MUSIC** = to select the scrolling of the scenes on music time.
- , +** = to set the manual mode of the scene, to change the general parameters into the menus.
- COPY STEP** = to copy a scene..
- DEL STEP** = to delete a scene.
- COPY PROG** = to copy a program.
- DEL PROG** = to cancel a program.
- INS STEP** = to insert a scene in the program or to edit a scene..
- SPOT 1-20/21-40** = to select the spots from 1 to 20 or from 21 to 40..
- 1-20** = To enable the buttons SPOT from 1 to 20.
- 21-40** = To enable the buttons SPOT from 21 to 40.
- NONE** = to disable all spots.
- ALL** = to select all the spots.
- SINGLE** = To change the selection of the spots.
 - IN SINGLE OFF mode: buttons SPOT1-20/21-40 selects and deselects the corresponding spot at every pressing, so it is possible to select more items.
 - In SINGLE ON mode, the selection of one spot allows the deselection of the previous selected, so it is possible to select one item at time.
- SPOT GROUPS 1-5** = to recall five groups of spots
- CH PAGE** = to change alternatively the pages of DMX Channels (1–16 or 17–32)
- FLASH 1-16/17-32** = to set DMX channel at 100%, when the controller is in Dimmer mode, to enable the channel for introducing data by keypad.



2 - FAST OPERATION ON THE CONTROL 5

To operate the Control 5 immediately, follow the instructions indicated in the sections:

- Patch
- Basic Programming
- Play

To learn all the other functions of the Control 5 controller, it is necessary to read the whole manual carefully.

PATCH:

- In the controller there is a default patch, if the default patch satisfies the requirements of the operator it is possible to proceed to assign to each spot the right DMX address. If it is necessary modify the patch, go to the paragraph CONFIGURATION MENU, make a new Patch and come back to this point.:
- In order to assign the right DMX address to each spot, select the spot on the controller and read on the display the starting DMX value:

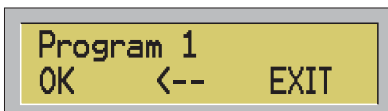
BASIC PROGRAMMING:

1) How to select a program:

- The first time you switch on the controller the display will show:

**Press SPOT or
PROGRAM to start**

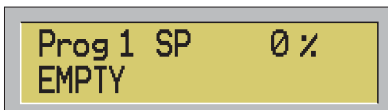
- Press PROG button to select one program.
- On the display, the following menu will be shown:



```
Program 1
OK  <--  EXIT
```

Digit the required program number and press OK (F1) or ENTER. To cancel the last digit number press F2. To decrease the value press – to increase press +. To leave the function press EXIT (F3) or ESC.

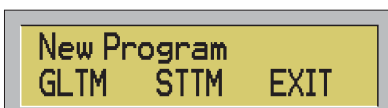
If you select the program number 1, the display will show:



```
Prog 1 SP  0%
EMPTY
```

2) How to make a new scene:

- Before start making a new scene, be sure to have selected the MANUAL function.
- To make a new scene, press INS STEP. Being the program empty, the following menu will be shown on the display



```
New Program
GLTM  STTM  EXIT
```

You can set up the new program on Global Time or Step Time. Press EXIT (F3) or ESC to go back to the options without any change.

a) In **Global Time** all scenes will have same life-time but a different time of fading can be assigned to each single scene.

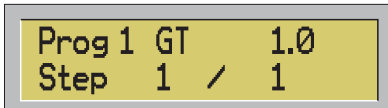
The fading time can be lower or equal than the global time of the scenes. In case it is lower, at the end the scene, the spots remain in stand-by until the end of the global time and the change of the new scene.

b) **Step Time**, every scene has its own fading time and its own stand-by time, freely arranged. At the end of fading (after the evolution of the parameters), the scene remains in stand-by for all the remaining time up to the change of the scene.

Both in Global Time or in Step Time, you can enter the values moving the two sliders WAIT TIME and FADE TIME.

- Once you have moved the slider, you can also set the right value through the buttons 0-9.

Once fixed the times of the scenes, you are ready to start programming, the display will show:



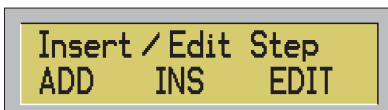
Prog 1 GT 1.0
Step 1 / 1

(in this case it has been selected a global time of 1 sec.)

3) How to start programming the spots functions:

- select through the spot buttons, the fixture/s you want to program.
- Every time you select a spot, and you start to move a slider, on the display will be shown the function pertinent to that slider and the DMX value.
- The DMX value can be assigned or through the slider or by the 0-9 buttons.
- Once you have programmed all the fixtures for the first scene press ENTER button to save the scene.
- Use the INS STEP button to input a new scene in the current program, or to edit again the current scene.

If the current program is no empty, digit this button and the controller will show the following menu:



Insert / Edit Step
ADD INS EDIT

At this point you can decide to add a new scene at the end of the current program (ADD), or to input the new scene at the same position of the current scene (INS), moving the others scenes forward, or to edit the current scene.

- Once you have finished to program all the scenes, you are ready, to run your program.

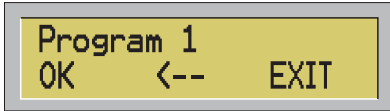
- Play

- Use the buttons AUTO, MAN and MUSIC to select the three different ways of scrolling the scenes (sequentially, manually or on music time)
- Operating on the SPEED slider you can increase or decrease (+ or – 400%) the speed already stored in each scenes.

3 – BASIC OPERATIONS

PROGRAMS:

- Press PROG button to select a program..
- The following menu will be shown:



- Using the 0-9 buttons, digit the required program number and press OK (F1) or ENTER. To cancel the last digit number press F2. To decrease the value press – to increase press +, to leave the function press EXIT (F3) or ESC.
- 100 programs are available, all numbered from 1 to 100. If 0 or a number bigger than 100 is settled the error message 'WARNING! OUT OF RANGE' will be shown, and if you forget to digit the number before pressing OK (F1) or ENTER the display shows the error message WARNING. MISSING VALUE.

SPOTS:

- Control Five can drive up to 40 spots, numbered from 1 to 40.
- There are different ways to select the spots:

1) **SINGLE** button

- When LED is off (function SINGLE disconnected) pressing SPOT 1-20/21-40 allows the selection and deselection of the corresponding spot. In this way it is possible to select more than one spot together.
- Pressing two buttons SPOT 1-20/21-40, at the same time, all the fixtures included between them will be selected. Ex: pressing SPOT 1 and SPOT 8 (at the same time) you can select fixtures 1,2,3,4,5,6,7,8 in one shot.
- When LED is on (function SINGLE working) pressing SPOT 1-20/21-40 allows the selection of the corresponding spot and the deselection of the previous one. In this way the spot can be only selected one-by-one.

The button SPOT 1-20/21-40 allows to select alternatively all the spots 1-20 and 21-40.

2) **ALL** button

- The ALL button will select all spots.

3) **NONE** button

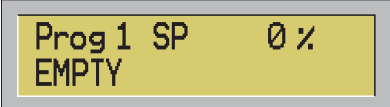
- The NONE button will deselect all spots

4) **SPOT GROUPS** buttons

- The SPOT GROUP buttons (1-5) will recall five groups of spots.
To memorize a group of spots, operate as following:
- Select the required spots through the SPOT 1-20/21-40 buttons and then press one of the 5 buttons SPOT GROUPS 1-5,
- press the above button for more than 1 second,
- When all the LEDs of the buttons SPOT start to flash, leave the button SPOT GROUPS.
- Now the group of spots is memorized on that button and, pressing it, the user will call those spots anytime.

4 - MAKING THE SCENES

When a program is empty, the display will show:



```
Prog 1 SP  0%  
EMPTY
```

To make a new scene, press INS STEP. Being the program empty the follow menu will be visualized:



```
New Program  
GLTM  STTM  EXIT
```

You can set up the new program on Global Time or Step Time. Press EXIT (F3) or ESC to back without any change.

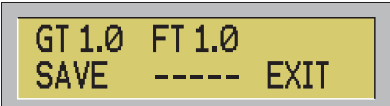
In **Global Time** all scenes have same life-time but a different time of fading can be assigned to the scene, in this time the parameters change up to the needed value.

The fading time can be lower or equal than the global time of the scenes. In case it is lower, at the end the scene remains in stand-by until the end of the global time up to the change of the scene..

In **Step Time**, every scene has its own fading time and its own stand-by time, freely arranged.

At the end of fading (after the evolution of the parameters), the scene remain in stand-by for all the wait time up to the change of the scene.

a) Pressing GLTM (F1) the menu will show:



```
GT 1.0 FT 1.0  
SAVE  -----  EXIT
```

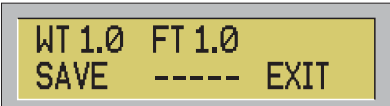
The program is settled in Global Time, default time is 1.0 sec for global time and fading time.

Global time can be settled from 0.1 to 120.0 sec through the slider WAIT TIME, meanwhile the fading can be settled from CUT (0), up to the same value of the Global time using the slider FADE TIME.

(Once moved one of the two slider you can enter the right time using the 0-9 buttons).

- Press SAVE (F1) to save the new scene, press EXIT (F3) or ESC to leave the function.

b) Pressing STTM (F2) the controller will show:



```
WT 1.0 FT 1.0  
SAVE  -----  EXIT
```

The program is settled in STEP TIME with time default of 1.0 sec for both waiting and fading time

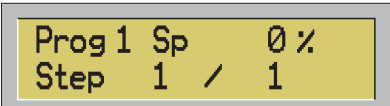
Both times can be settled from CUT (0) up to 120.0 sec. Waiting time can be settled through the slider WAIT TIME meanwhile fading through the slider FADE TIME.

Setting CUT both for waiting and fading time, the controller takes a minimum time of 0.1 sec

(Once moved one of the two slider you can enter the right time using the 0-9 buttons).

- Press SAVE (F1) to save the scene, press EXIT (F3) or ESC to leave the function.

After the first scene, the controller will show:



```
Prog 1 Sp  0%  
Step  1 /  1
```

If you desire to program the spots in the first step, please read carefully the paragraph n. 4.

If on another hand you prefer to add more steps in the program number 1, repeat the same operations reported in the current page.

At this point, for instance the display will show:

```
Prog 1 Sp   0 %  
Step  9 /  9
```

(it means that you will have made 9 scenes totally, and you are in the number 9 of the program number 1).

To change the current scene you can use -,+ buttons (in manual mode) or use STEP/.. button if you want to jump some steps.

- Pressing the STEP/. Key and then the 4 button, the display will show for instance:

```
Step:  4  
OK    <--  EXIT
```

- To confirm press OK (F1), to leave the function press EXIT (F3) or ESC.

If you input the number 0 or a number greater than the number of the scenes in memory the controller will show: 'WARNING Out of Range'.

Pressing OK or ENTER without input the number of the scene the error message 'WARNING Missing Value' will be shown.

- Pressing the INS STEP button you can input a new scene in the current program, or you can edit the current scene, the display will show:

```
Insert / Edit Step  
ADD   INS   EDIT
```

At this point you can decide to add a new scene at the end of the current program, or input the new scene at the same position of the current scene, moving the others scenes forward, or to edit the current scene.

1) Pressing **ADD** (F1) the new step will be added at the end of existing steps and the controller will show one of these menus:

if current program is in Global Time:

```
GT g.g FT f.f  
SAVE  -----  EXIT
```

If current program is in Step Time:

```
WT w.w FT f.f  
SAVE  -----  EXIT
```

In Global Time the field g.g holds the global time value of the current program, the fields w.w and f.f hold the stand-by time and the fading time respectively, and without any change these ones will be copied in the new scene.

To add the new scene to the program press SAVE (F1), to leave the function press EXIT (F3) or ESC.

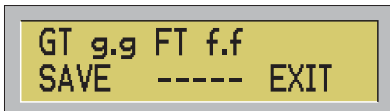
2) Pressing **INS** (F2) from menu Insert/Edit Step the function is similar, except that the new scene will be inserted in the actual position shifting all the remaining steps of one position.

3) If you wish to modify one of the existing step, from the menu insert/Edit Step press EDIT (F3) and the controller will show:

```
Edit Step  
GLTM  STTM  NEXT
```

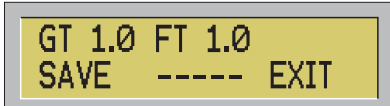
You can choose to re-set the current program in Global Time, or Step Time or you can edit time using the current mode. To leave the function press ESC.

a) Pressing GLTM (F1) the controller will show:
In Global Time:



```
GT g.g FT f.f
SAVE ----- EXIT
```

In step time:

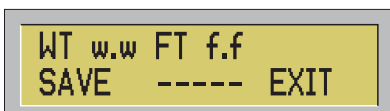


```
GT 1.0 FT 1.0
SAVE ----- EXIT
```

In the first situation you can see the current value of global time and fading time, meanwhile in the second situation you can see the default time of 1.0 sec.

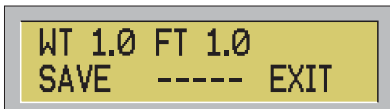
To save the scene press SAVE (F1), to leave the function press EXIT (F3) or ESC.

b) Pressing From menu Edit Step STTM (F2) you will see one of these menus:
In Step Time:



```
WT w.w FT f.f
SAVE ----- EXIT
```

If the current program is in Global time you have to re-set it in Step Time:



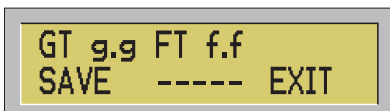
```
WT 1.0 FT 1.0
SAVE ----- EXIT
```

In the first situation you will see the current values of waiting and fading time, in the second situation you will see the default time of 1.0 sec.

To save the scene press SAVE (F1) to leave the function press EXIT (F3) or ESC.

From menu Edit Step press NEXT (F3) the controller will show:

In Global Time:



```
GT g.g FT f.f
SAVE ----- EXIT
```

In Step Time:



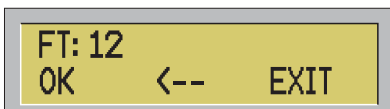
```
WT w.w FT f.f
SAVE ----- EXIT
```

In Global Time the field hold the value of global time in the current program, and the fields w.w and f.f hold waiting and fading time of the current scene respectively.

To save the scene press SAVE (F1) to leave the function press EXIT (F3) or ESC.

All the time global stand-by and fading can be settled by slider WAIT TIME and FADE TIME or using the keypad. The function is the same of the one for the input of the value of channels.

For ex. You can modify the fading time of one scene using the slider FADE TIME, then you can digit a numeric value and the controller will show:



```
FT: 12
OK <-- EXIT
```

The value you have input is 12, at the end of the input press OK (F1) or ENTER.

To cancel the last number press ← (F2). To leave the function press EXIT (F3) or ESC.

Use key STEP/. button to input decimal point.

Press ENTER to save the current scene. The message Step Saved will confirm the rescue.

5 - Programming the fixtures into the scenes:

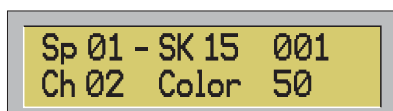
The controller can drive a maximum of 40 fixtures, each one up to 32 DMX channels.

HOW TO CHANGE DMX VALUE TO EACH PARAMETERS:

Once you have selected a spot/spots or group of spots (as reported page 7), proceed in the following way:

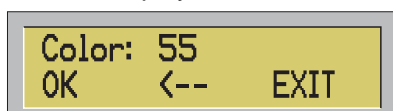
- To modify the numeric value of each DMX channels use the sliders CHANNELS 1..16/17..32.
- Use the button CH PAGE to select the page of the channels that you want to attend.
- Pressing this key the sliders will attend alternatively on channel 1..16 and 17..32, in order to know in which page you are, the channel 1 or 17 will be shown on the display.
- The value of each channel can be changed operating on the slider or inserting a new value using the 0-9 buttons..

After modifying the value of the channel using the relative slider, the display of the controller will show for instance:



```
Sp 01 - SK 15 001
Ch 02 Color 50
```

- In this example you are programming the spot 1 (that is a Shark 159, with DMX address 001) and you have moved the Color channel for which you have assigned a value of 50.
- When moving the slider of one parameter, you can also set the right value through the 0-9 buttons, in this case the display will show:



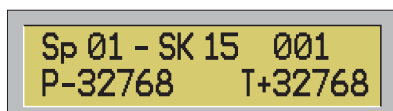
```
Color: 55
OK <-- EXIT
```

- Press OK (F1) or ENTER.
- To cancel the last number press ← (F2). To esc press EXIT (F3) or ESC.. In case you digit a number higher than 255 the error message WARNING OUT OF RANGE will be shown, and if you forget to put the value of the channel before pressing OK (F1) or ENTER the error message WARNING. MISSING VALUE will be shown.
- To modify the PAN/TILT position you can use the joystick or the sliders CHANNEL 1..16/17..32 referred to the pan and tilt parameters.

AXIS INVERSION:

You can change the movements of the two axis of the joystick with the X INVERTION and Y INVERTION buttons...

- Pressing this button all the four available combinations for X and Y will be selected sequentially. For instance, if you select the spot number 1 and it is a Shark 150W assigned at DMX 001 channel. and Pan and tilt are both at middle coarse, with a DMX value of 32768 (for spots with resolution at 16 bit), the display will show:



```
Sp 01 - SK 15 001
P-32768 T+32768
```

In this case, the pan parameter is inverted meanwhile the tilt is direct, showed by mark – after P and by mark + after T .

The possible settings are:

- 1) **P+32768 ---T+32768**
- 2) **P-32768 ---T+32768**
- 3) **P+32768 ---T-32768**
- 4) **P-32768 ---T-32768**

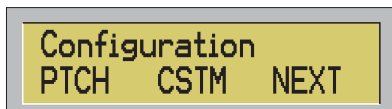
These settings are valid for all the selected items (spot7spots or group of spots), if no items are selected the message WARNING no active spots will appears.

6 - SHAPES

The controller allows to assign to Pan and Tilt parameter 4 moving shapes already stored in the Control 5. It is also possible to fix a different Shape starting point for each single fixture. (only one starting point can be memorize for each fixture and it will be the same for any scenes)

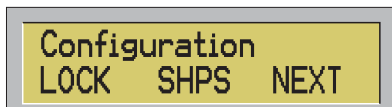
How to memorize the starting point:

When the display is on the Menu window, press F2 (CNFG), on the display will appear:



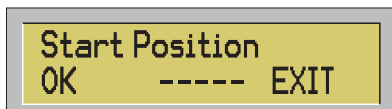
```
Configuration
PTCH  CSTM  NEXT
```

Press F3 (NEXT), on the display will appear:



```
Configuration
LOCK  SHPS  NEXT
```

Press F2 (SHPS), on the display will appear:

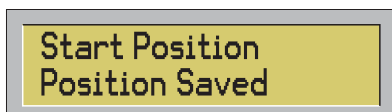


```
Start Position
OK      -----  EXIT
```

Select the desired spot/spots and fix the Pan/Tilt position using the Joystick.

Repeat the same operation for the remaining spot/spots. (for each spot can be assigned a different Shape start position, but only one)

When all the positions are programmed press F1 (OK), on the display, for 1 second, will appear:

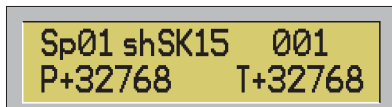


```
Start Position
Position Saved
```

The Shape starting position are now saved and can be recalled in each scene.

- How to assign to a spot, one of the 4 prestored Shapes, meanwhile you are programming a scene:
 - 1) Using the 1-20/21/40 buttons, select the spot/spots on which you want to apply the on board Shapes.
 - 2) Press the key SHAPES to apply the shapes on the selected items. To unale them, press again SHAPES.

For ex. When you apply a shapes on item n° 1, the display will show:



```
Sp01 shSK15  001
P+32768      T+32768
```

(sh after Sp01 means that a shape has been selected for that fixture in that step)

Using the slider Channels 1..16/17..32 referred to Pan and Tilt parameter (in this case for the Shark 150, 5 – 6 – 7 – 8) you will be able to change the Shape functions as follow:

- **Pan Coarse – (channel number 5 in our case) > Shape**
This parameter, is divided into 4 equal parts 0-63, 64-127, 128-191, 192-255, allows to select one of the 4 on board shapes.
- **Pan Fine – (channel number 6 in our case) > Shape Speed**
This parameter modifies the speed performance of the selected shape.
- **Tilt Coarse – (channel number 7 in our case) > X-Size**
This parameter modifies the amplitude of the excursion referred to the Pan movement.
- **Tilt Fine – (channel number 8 in our case) > Y-Size**
This parameter modifies the amplitude of the excursion referred to the Tilt movement.

If you wish to add the Shapes to other spots, select other spot/spots and repeat the same operations.

In case you deal the key SHAPES when no items are selected the message WARNING NO ACTIVE SPOTS will appears, and if the spots can not work with the shapes, having not the parameter pan and tilt 16BIT, the display points out the message WARNING. NO SHAPE MODE.
All shape data and scene parameters are saved on memory.

7 – ADDITIONAL PROGRAMMING FUNCTIONS

DEL STEP function:

Press DEL STEP to cancel the current scene moving all the next scenes down.
The controller will show the request:

```
Are you sure?  
YES  ----- NO
```

Press YES (F1) or ENTER to cancel the scene, press NO (F3) or ESC to leave the function without canceling the scene.

COPY STEP function:

To copy a scene press COPY STEP.
The following menu will appear:

```
Copy Step  
FROM TO   FRSH
```

You have 3 options:

- a) You can decide to copy from another scene in the current one
- b) You can decide to copy the current scene in another one.
- c) You can decide to copy the Shapes starting position

a) Pressing FROM (F1), the following menu will appear:

```
From Prog: 1  
OK  <--  EXIT
```

The controller requests to digit the number of the original program from which you want to copy the scene.
Digit the number and press OK(F1) or ENTER.

At this point the following menu will appear:

```
From Step: 1  
OK  <--  EXIT
```

The controller requests the number of the original scene that you want to copy.
Digit the number of the scene and press OK (F1) or ENTER.

NOTE: if the original program hold only one scene the menu From Step can not be visualized and the controller will pass directly to the next operation.

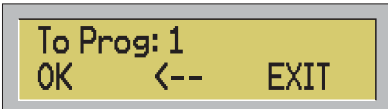
If the program is empty the original scene will be the only scene of the program and the function will end, otherwise the controller will show the following menu:

```
From Step: 1  
ADD  INS  COPY
```

- Press ADD to add the original scene at the end of the program.
- Press INS to input the original scene to the place of the current scene moving forward the others scene.
- Press COPY to replace the current scene with the original one.

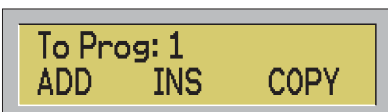
Press ESC to leave the function.

b) Press TO (F2) from menu Copy Step to open the following menu:



The controller requests the number of the destination program in which you want to copy the current scene. Digit the number and press Ok (F1) or ENTER.

NOTE: if the program is empty the message 'WARNING! Empty Program' will appears and the menu To prog can not be visualized. At this point if the desired program is empty the current scene will replace the only scene of the program and the function will end. Otherwise the controller will show the following menu:



- Press ADD (F1) to add the current scene at the end of the desired program.
- Press INS (F2) to input the scene before the scene you have previously digit, moving the next scenes.
- Press COPY (F3) to replace the scene previously chosen with the current one.

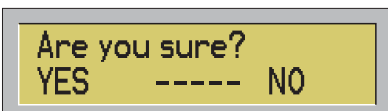
Press ESC to leave the function.

d) Press FRSH (F3) to copy the Shapes starting position in the current step.

DEL STEP function:

To cancel all the scenes of the current program press DEL PROG.

The controller will request a confirmation:

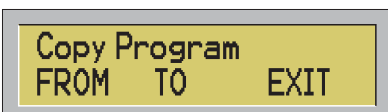


Press YES (F1) or Enter to cancel all the steps of the current program, press NO (F3) or ESC to leave the function without canceling the program.

COPY PROG function

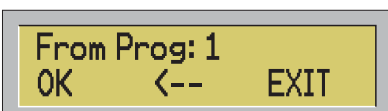
To copy a program press COPY PROG

The following menu will be shown:



You can to decide to copy from another program in the current one or to copy the current program in another one. Press EXIT (F3) or ESC to leave the function.

a) Pressing FROM (F1) the following menu will be shown:



The controller requests the number of the original program from which you want to copy all the scenes. Digit the number of the program and press OK (F1) or ENTER.

NOTE: it is no possible for a program to copy itself so if you digit the number of the current program the message 'WARNING! Same Program' will be shown.

At this point, if the current program is empty, the original program will be copied in the current program and the function will end, otherwise the following menu will appear:

```
From Prog: 1
JOIN  INS  COPY
```

- Press JOIN (F1) to add the original program at the end of the current program.
- Press INS (F2) to input the new program in the position of the current scene, moving forward all the others scene.
- Press COPY (F3) to replace the current program with the original one.
- Press ESC to leave the function.

b) Pressing TO (F2) form the menu COPY PROGRAM the following menu will be shown:

```
To Prog: 1
OK    <--  EXIT
```

The controller requests the number of the destination program in which you want to copy all the scenes of the current program.

Digit the number of the program and press OK (F1) or ENTER.

NOTE: in case the program is empty the error message 'WARNING! Empty Program' will be shown

NOTE: it is no possible for a program to copy itself so if you digit the number of the current program the message 'WARNING! Same Program' will be shown.

At this point, if the destination program is empty, the current program will be copied in the destination one and the function will end. Otherwise the following menu will appear:

```
To Prog: 1
JOIN  INS  COPY
```

- Press JOIN (F1) to add the current program at the end of the destination program.
- Press INS (F2) to input it in the position of the scene previously chosen, moving forward all the others scenes.
- Press COPY (F3) to replace the desired program with the current one. Press ESC to leave the function.

If the destination program holds more than one scenes, pressing INS (F2) the following menu will be shown:

```
Before St: 1
OK    <--  EXIT
```

You have to digit the number of the scene of the destination program before which you have to input the current program.

After every operation on scenes and programs Control Five shows the number of the available scenes. Switching on the controller you can visualize this information.

8 - RUNNING THE PROGRAMS

Use the keys AUTO, MAN and MUSIC to select the three different ways to run a program (sequentially, manual and musical).

- Using the AUTO mode (sequential model), each scene can have an individual time or a global time (the same for all the scenes in the program) according to the program made.
- Using the MAN mode, you can change the scenes manually.

- Using the MUSIC mode, the scenes can work in auto mode following a musical signal presents on the jack input in the rear of the controller.
 When in the music mode, pressing the +/- buttons you can modify the electrical level of the music signal.

MANUAL/AUTO Function:

While the controller works in auto or musical mode, it is possible to modify manually the parameters of one or more fixtures.

- To use this function select the spots you want mode manually.
- You can now change manually all the parameters to the choosen spots.
- During this operation the spots no selected will continue to run in auto mode.
- To leave the function deselect all the spots with the NONE button.

NOTE: the controller memorize two different pages of the selected spots, depending to the manual or automatic functioning.

Pressing AUTO or MUSIC the spots selected, the ones of the first page, will be deselected and they can be selected again pressing MAN. In this way you can avoid that passing in automatic mode the selected spots will no consider the manual commands and will no follow the sequence of the scenes of the program.. During the automatic function the spots selected by manual mode will found the second page, and backing to the manual mode, these spots will be substituted with the spots of the first page.

BLACK-OUT Function:

Meanwhile running a program in AUTO, MANUAL or MUSIC mode, it is possible to insert the black out function on all the fixtures just pressing the F3 key, located below the display; all the leds will start to blink untill you press again the F3 key and leave the black out function.

9 – CONFIGURURATION MENU

Press the ESC button to enter in the configuration of the CONTROL FIVE, the display will show the following menu:



- Press MODE (F3) to input the Dimmer function to the sliders CHANNELS 1..16/17..32.



a) In Editor mode the sliders will work in increasing way, so that if you raise one slider the value of the parameter will increase, meanwhile turning down it will decrease.

The position of the slider and the value of the corresponding parameter can be equal or not:

- when not equal, the red led is on.
- When they are equal the green led is on.

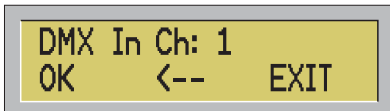
b) In Dimmer mode the sliders assign the value of the corresponding parameters. This function can be used only when the controller is a dimmer box, in fact you can not edit a scene in dimmer mode without loosing the original value of the parameters, taking the ones of the sliders. In dimmer mode the slider MASTER modifies the intensity of the channels and the FLASH 1..16/17..32 button set the corresponding parameter at 100%.

UTILITY functions:

Pressing the UTIL (F1) button allows to enter the utility menus:



a) Pressing DMXI (F1) is possible to assign a starting DMX IN channel to be used to drive the controller from another DMX-512 console, the following menu will appear:



Digit the number of the channel you desire and press OK (F1) or ENTER.

The controller can be driven through four DMX channels:

- 1 – mode
- 2 – program
- 3 – scene (high part)
- 4 – scene (low part)

- Channel 1 (MODE), from 0 to 127 set the controller in manual mode, as per MAN button. From 128 to 255 set the controller in automatic mode, as per AUTO button.
- Channel 2 to change the program, as per PROG button.
- Channel 3 and 4 to change the scene, as per STEP/.. button.

Example 1:

- 1 – mode =0
- 2 – program =10
- 3 – scene (high part) =1
- 4 – scene (low part) =12

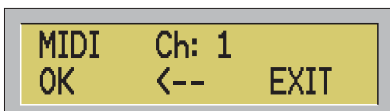
The user intends to call the scene 268 (1*256+12) for program 10.

Example 2:

- 1 – mode =255
- 2 – program =1
- 3 – scene (high part) =0
- 4 – scene (low part) =0

The user intend to call the program 1 in automatic mode.

b) Press MIDI button (F2) to enter the channel midi to be used to drive the Control 5 from any midi device, the display will show:



Digit the number of the Midi channel and press OK (F1) or ENTER. To cancel the last digit number press ← (F2). To increase the value press + to decrease press -. To leave function press EXIT (F3) or ESC.

In case you digit 0 or a number bigger than 16 the error message 'WARNING! Out of Range! Will appear. Pressing OK (F1) or ENTER without input the number of the channel the message 'WARNING! Missing Value' will appear.

This function allows to synchronize two or more controllers so to increase the number of the DMX channels, and also it allows to control the controller by a sequencer midi or a PC program:

How to select a program on the Midi device

<PROGRAM CHANGE>
<program number>: program (0..99)

To select a scene:

<NOTE ON>
<key> : scene (high part)
<velocity> : scene (low part)

c) Pressing the NEXT (F3) button allows to pass to the second menu, the display will show:

```
Utility
LGHT  BEEP  NEXT
```

a) Press LGHT (F1) button to set the brightness of the lamp connected to USB socket.

```
Light: 255
OK    <--  EXIT
```

Digit the value of brightness and press OK (F1) or ENTER.

The setting-out is saved on no volatile memory.

b) Press BEEP (F2) button to able or disable the buzzer inside the controller.

The display will shown:

```
Beep  ON
OFF   ON  EXIT
```

- To disable the buzzer press OFF (F1).
- To enable the buzzer press ON (F2).

To leave the function press EXIT (F3) or ESC.

HOW TO MAKE A PATCH:

When on the following main menu:

```
C5 Menu EDITOR
UTIL  CNFG  MODE
```

Press the CNFG (F2) button to enter the configuration menus:

```
Configuration
PTCH  CSTM  NEXT
```

a) Pressing PTCH (F1) to set the patch, the display will show:

```
Sp 01  Shark150
OK    ----- EXIT
```

Press EXIT (F3) or ESC to leave the function.

To set a new patch read the following the instructions:

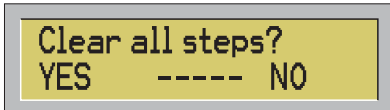
- 1) Using the SPOT keys, select the spot/spots or a group of spots to assign to a model
- 2) Select the model by +/- buttons (a library of spot models is available)
- 3) Repeat the same operation for other spots to assign to a different model
- 4) Press OK (F1) or ENTER

Setting a new patch implies the formatting of the memory, so the controller will show the following request:

```
Are you sure?
YES  ----- NO
```

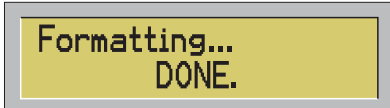
Press YES (F1) button or ENTER to confirm the setting of the patch and the formatting of the memory, press NO (F3) or ESC button to leave the function without any change.

If you press YES (F1) button the controller will show the following request:



Clear all steps?
YES ----- NO

Pressing YES (F1) button you delete all the memory and the controller will show:



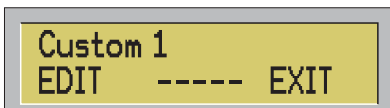
Formatting...
DONE.

Pressing NO (F3) button you will create a new patch without clean you work (programs and steps so far made) and the controller will show the main menu page

In case the number of the DMX channels of the new patch is bigger than 512 the error message 'WARNING! No DMX512 Space!

b) The CSTM (F2) button from Configuration menu allows to create 8 custom models. This function is useful in case you don't find the desired model in the memory of the controller

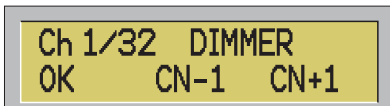
The following menu can be visualized:



Custom 1
EDIT ----- EXIT

- To increase the number of the custom model to edit press + , to decrease press -.
- When decided the number of the custom you want to edit, Press EDIT (F1) or ENTER , to leave the function press EXIT (F3) or ESC.

The display will show:

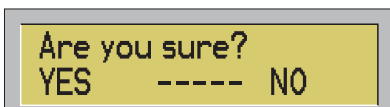


Ch 1/32 DIMMER
OK CN-1 CN+1

In this default case, the model has 32 parameters and the first one is the Dimmer

- To modify the total number of the parameters press CN-1 (F2) or CN+1 (F3).
- To change the function to the Ch01 use the -/+ buttons
- To edit the second channel press the FLASH button2 and use the -/+ buttons to assign the desired function.
- Repeat the same operation for each one of the total channels.
- When finished, press OK (F1) or ENTER to confirm the operation, press ESC to leave the function.

After pressing OK or ENTER the controller may ask you a confirmation:



Are you sure?
YES ----- NO

Press YES (F1) to confirm the settled of the custom model, press NO (F3) or ESC to leave the function without any change.

At this point the controller check if there are some parameters repeated or if the PAN/TILT Coarse-Fine are in the right position. If there are some errors the following message will appears:

- 'WARNING! REPEATED PARAMS' (with parameters repeated)
- 'WARNING! No FN after CR' (pan/tilt coarse is not followed by pan/tilt fine)
- 'WARNING! No CR before FN' (pan/tilt fine is not anticipate by pan/tilt coarse)

NOTE: It is no possible to edit a custom model already settled in the patch, because any change will cause malfunction with the programs already memorized , when the user press EDIT (F1) or ENTER a check will be done to verify if the selected model is already settled in the patch. If yes, the error message 'WARNING! Model On Patch' will be shown

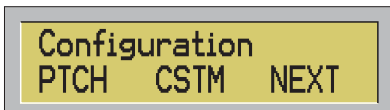
Without errors the custom model is settled and the function ends.

LOCK function:

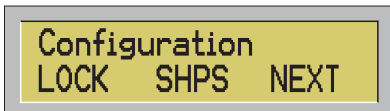
When on the following main menu:



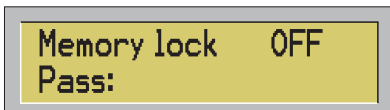
Press CNFG and the display will show:



Press NEXT (F3) and the following menu will appear:



Pressing the LOCK (F1) button it will enable and disable the protection of the memory. The controller has a protection in order to avoid any kind of input by no-authorized users. The following message will be shown:

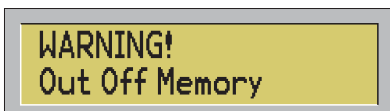


To modify the protection digit the code number **2-6-4-5**
Pressing ESC to leave the function.

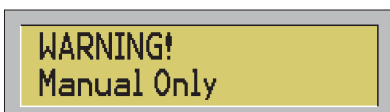
10 – ERROR MESSAGES

The controller shows an error message when the user press a wrong button, after an incorrect operation or after a functional defect.

List of Error Messages:



The controller is out of memory, there is no space to save other scenes.



The function can be activated in manual mode only. For example: STEP/ button.

WARNING!
Locked Memory

When the user try to change scenes or programs with locked memory.

WARNING!
Empty Program

The function can not be activated because the current program is empty. For example: COPY PROG-TO button.

WARNING!
No Programs

The function can not be activated because the programs are empty: for example: COPY PROG button.

WARNING!
Same Program

When the user try to copy a program on itself.

WARNING!
Out Of Range

A value out of range. For example: Program 101

WARNING!
Missing Value

The user digit OK (F1) or ENTER without input a value

WARNING!
No Shape Mode

Pressing SHAPES button no spots can work with the selected shape.

WARNING!
No Active Spot

The function can not be activated because the spots have not been selected. For example: X/Y INV button.

WARNING!
No DMX512 Space

When the user try to select a patch in which the total of the parameters of the spots is bigger that 512.

WARNING!
Bad NVRAM Data

The controller has found inconsistency on data of memory, caused by problems of power supply.

WARNING!
Model on Patch

When the user try to edit a custom model that is already settled in the patch. This operation is not allowed because every changes will cause problems at the programs already created.

WARNING!
Repeated Parameters

The user is trying to realize a custom model in which the parameter is repeated several times.

WARNING!
No FN After CR

When the user try to realize a custom model in which the parameter Pan/Tilt Coarse is not followed by Pan/Tilt fine.

WARNING!
No CR Before FN

When the user try to realize a custom model in which the parameter Pan/Tilt Fine is not came first Pan/Tilt coarse.

11 - TEST FUNCTIONS

Control Five has some functions that are no available during the utilization. These functions, needed for the test of the system, can be recalled starting when switch on the controller pressing one button or a couple of button between the ones listed here below:

0+F3 general starting

Input this function when the controller starts for the first time, with the no-volatile memory still empty. The following operations will be done:

- 1) memory test
- 2) memory formatting
- 3) A/D converters test
- 4) Keypad test

When the controller starts for the first time a check on the memory no-volatile has be done, so it is no necessary to press 0+F3 buttons.

If the memory is not formatted the following message is shown:

System Init?
YES ----- NO

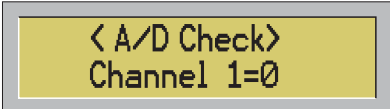
Press YES (F1) or ENTER to enter the operation above-mentioned, press No (F3) or ESC to start the controller without the formatting of the memory.

In this last case the user could find errors on the functioning.

0+F1 formatting memory

Cancel all the scenes

1: converters A/D test



To decrease the channel press - to increase press +. Moving the referring parameters the value will change from 0 up to 255. Press ESC to exit from the procedure.

2: keypad test.

Press any buttons to visualize the corresponding hexadecimal code. Press ESC to exit form the procedure.

3: memory test.

To test the no-volatile memory. At the end, without any errors, the procedure ends automatically, otherwise the message ERROR will be shown, after the visualization of the memory address that has created the error.

4: To see the numbers of the ignitions.

Press any button to exit from the procedure.

5: To see the initial, the version and the date of the last service.

Press any button to exit from the procedure.

6 To see the content of the no-volatile memory.

To decrease the address press -, to increase press +.

Pressing 1,2,3 e 4 the buttons +/- can be changed (to increase or decrease) as follow:

1:8

2:128

3:2048

4:32768

Press ESC to exit form the procedure

NOTE:

