

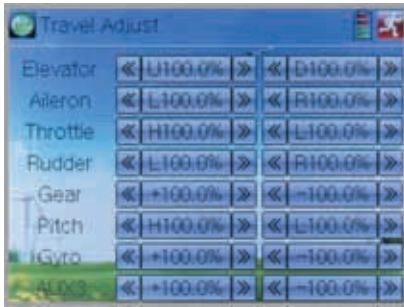


3.2 Travel Adjust

Touch the icon  to enter Function Menu and then click  to enter the travel adjust interface.



Touch the navigation mark of the desired item to increase or decrease the servo travel range. The trim range is from 0.0% to 150.0%. The factory default is 100.0%.

Click the icon  to exit.

3.3 Sub Trim

Sub Trim can parallel to move the neutral point of the servo. But we advise you to mechanically adjust the servo bell crank if offset is far away from the neutral point of servo, because excessive usage of the sub trim, out of its range, may damage the servo.

Setting method:

Touch the icon  to enter Function Menu and then click  to enter Sub Trim.



It is possible to change the servos' neutral point by touching the navigation mark of the desired item to amend the percentage. The default for each channel is 0.0%. The following chart shows the adjustment range of each channel:

Channel name	Adjustment range	Channel name	Adjustment range
Elevator	D62.5%—U62.5%	Gear	-62.5%— +62.5%
Aileron	R62.5%—L62.5%	Pitch	L62.5%—H62.5%
Throttle	L62.5%—H62.5%	Gyro	-62.5%— +62.5%
Rudder	R62.5%—L62.5%	AUX3	-62.5%— +62.5%

Touch  to exit.

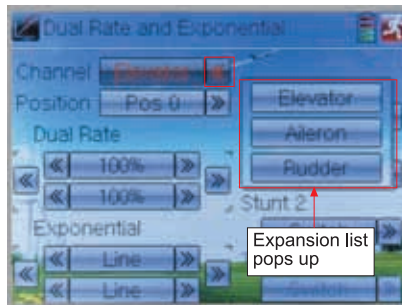
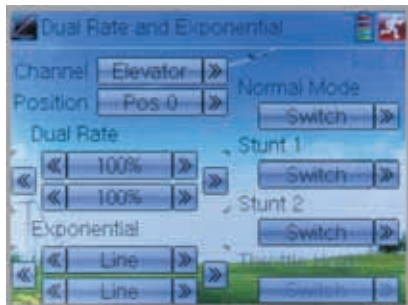
3.4 Dual Rate and Exponential

After this function is set up, it is possible for D/R switches to control the dual rates of elevator, aileron, and rudder, respectively. The setting range is covered from 0% to 125%. Under the help with exponential curve adjustment, it is possible to make both customized settings and automatic settings.

The switch between Dual Rate and Exponential can be performed via pushing or pulling the Flight Mode lever.

Setting method:

Touch the icon to enter Function Menu and then click to enter the interface dual rate and exponential interface.

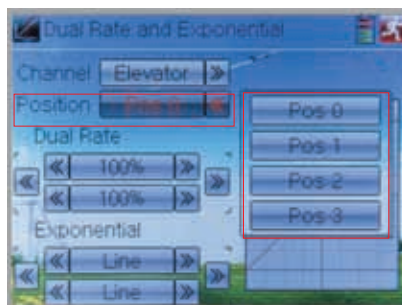


(1) Channel selection

Touch the navigation mark of Channel. An expansion list pops up, which contents Elevator, Aileron, and Rudder. Choose the desired channel for setting.

(2) Position selection

Touch the navigation mark of Position. An expansion list pops up, where there are four points for you choosing from Pos 0 through 3. Choose the position you want to set. The chosen point will be shown in the frame of the item Position.

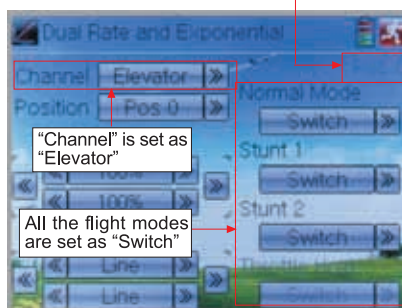


In manual mode, the function of Dual Rate and Exponential will be executed by the corresponding dual rate switch among Pos 0, Pos 1, and Pos 2.

Take the item Elevator at Channel as the example. All the flight modes, shown in the right column, are set as "Switch". Then if we move the lever of ELEV D/R, the switch will be taken place among Pos 0, Pos 1, and Pos 2. If moving the lever ELEV D/R (shown above), switch will happen among Pos 0, Pos 1, and Pos 2 (shown below).

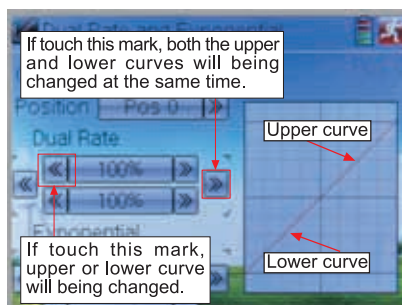


The current Switch position is shown here



(3) Dual Rate adjustment

It is possible to modify the dual rate value by touching the navigation mark of Dual Rate. If touching the navigation mark for just one item to amend the dual rate value, the dual rate of the corresponding servo will be changed in one direction, while the curve will be changed in one direction at the right graph.



(4) Exponential adjustment

It is possible to adjust the exponential output value of the servo at that point, which is set up in step “(2) Position selection”, by touching the navigation mark of Exponential.

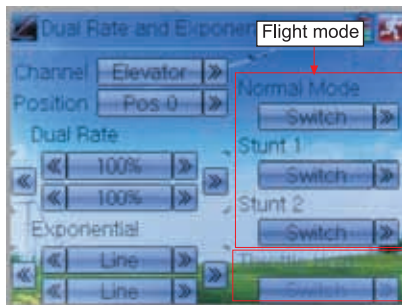
(5) Automatic setting

Under working with Flight Mode, it is possible to switch the dual rate and exponential, which are set in above “(3) Dual Rate adjustment” and “(4) Exponential adjustment”, respectively.

The settings for Normal Mode, Stunt 1, Stunt 2, and Throttle Hold in Function Menu should be set as “Active” (Refer to “3.5 Throttle Hold” below).

Touch the flight mode that you want to set as automatic operation, and an expansion list will be shown. Click the desired position. If Switch is selected, it is only controlled by the corresponding dual rate lever.



Click the icon  to exit.



3.5 Throttle Hold

If this function is set, the switch will be executed by RUDD D/R switch. The setting value of throttle hold is ranged from -20.0% to 50.0%.

Setting method:

Touch the shortcut icon  to enter Function Menu, and then click  to enter the throttle hold interface.



Touch the navigation mark of Hold Status, and an expansion list will be shown as Inhibit and Active. Click Active, there appeared Switch, Hold Position in the following interface.

(1) Setting for Switch

This item is impossible to be set. The default setting is RUDD D/R.

(2) Setting for Hold Position

Touch the left or right navigation mark of the item Hold Position to decrease or increase, respectively, the position amount, whose range is covered from -20.0% to +50.0%.

Under Throttle Hold turned on (pull the Throttle Hold lever forward), when moving the throttle stick to the point set by Cut Position from high to low, the throttle enters the locked status. That means the throttle is locked at the point set by Hold Position. If pushing Throttle Hold lever, the throttle locked status is released.

Click the icon to exit after all the settings are finished.

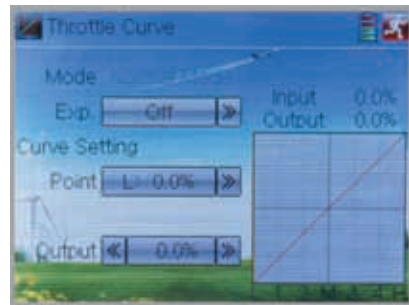
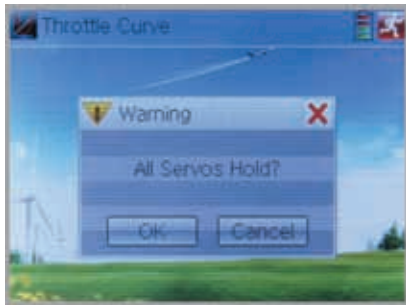


3.6 Throttle Curve

Throttle curves are adjusted through seven points, which of all the flight modes can be respectively set. The flight mode includes Normal Flight, Stunt 1, Stunt 2.

Setting method:

Touch the shortcut icon to enter Function Menu, and then click the icon to enter the interface of Throttle Curve while an enquiry dropdown is shown "All Servos Hold?" If click OK, all the servos will be locked at the current status; if click Cancel, all the servos will be unlocked at the current status. Enter the following interface after clicking OK or Cancel.



(1) Adjustment for Exponential

Touch the navigation mark of Exponential and expand an option dropdown: Off and On. The throttle curve will be changed smoothly if touching On, or in fold line if clicking Off.

(2) Curve Setting

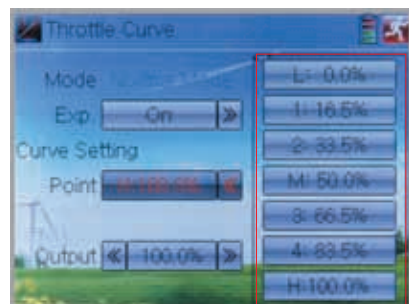
It includes two items: Point, and Output.

(2.1) Adjustment for Point

Touch the navigation mark of Point and an expansion list including seven points is shown. Click the point which you want to adjust.

(2.2) Output adjustment

Touch the left or right navigation mark of Output to decrease or increase, respectively, the output amount of the selected point with a minimum of 0.0% and a maximum of 100.0%.



(3) Flight mode



There are total three flight modes: Normal Flight, Stunt 1, Stunt 2, the curve of which can be respectively set in their corresponding flight mode. The setting method is same with “(2) Curve Setting” above.

Click the icon  to exit.

3.7 Mix to Throttle

This function can keep the main rotor blades running at the certain revolution caused by the changed load when operating the aileron servo, elevator servo, and rudder servo. Generally, it is not advised to use this function.

Setting method:

Touch the shortcut icon  to enter Function Menu, and then click the icon  to enter the MIX to throttle interface.



If the item of Channel is shown as “Elevator”, there are Channel, Switch, Up, and Down in the interface. If the item of Channel is Aileron or Rudder, the contents in the said interface will be changed into Channel, Switch, Left, and Right. Take the example of Channel set as Elevator to illustrate the setting method.

(1) Channel setting

Touch the navigation item of Channel and expand three options: Elevator, Aileron, and Rudder. Choose Elevator as the channel you want to mix.

(2) Switch selection

Touch the navigation mark of Switch and pop up a dropdown menu with Always on, Normal Mode, Stunt 1, Stunt 2, and GEAR SW. Touch the item which will be set as switch. After setting finished, the corresponding status of On or Off will be shown on the upper right corner when pushing the Lever, which the selected item is corresponding to. Then touch the navigation mark of Switch to return to the previous interface.



(3) Up setting

Touch the left or right navigation mark of Up to decrease or increase the mix amount when moving the throttle stick upwards. The bigger the amount is, the bigger the mix to throttle will be. Click the left mark and change the amount from “+” to “-” for the throttle mix direction reverting. The adjustable range is $\pm 125\%$.

(4) Down setting

Touch the left or right navigation mark of Down to decrease or increase, respectively, the mix amount when moving the throttle stick downwards. The bigger the amount is, the bigger the mix to throttle will become. Click the left mark and change the amount from “+” to “-” for reverting the throttle mix direction. The adjustable range is $\pm 125\%$.

(5) The setting method is same as above when Channel is shown as Aileron or Rudder.

Touch the icon  to exit after finished.

Note:

- (1) Confirm before flight: whether or not the mix amount set above reaches the desired flight effect, and whether or not all the actions are right in various flight modes.
- (2) It is unnecessary to use this function when Governor is taken to control the revolution.

3.8 Gyro Sensor

This function offers the gain adjustment for gyro sensor, which can be manually set through D/R switches or Flight mode switch, and also is possible to be automatically switched among various gains through flight mode switch.

Setting method:

Touch the icon to enter Function Menu, and then touch the icon to enter the gyro sensor interface.



(1) Manual setting

(1.1) Mode selection

Touch the navigation mark of Mode and expand into two options: Manual and Automatic. Select Manual.

(1.2) Switch selection

Touch the navigation mark of Switch and expand into six articles: FMOD SW, MIX SW, ELEV D/R, AILE D/R, RUDD D/R and GEAR SW.

(1.3) Channel setting

The default setting is AUX 2. It is possible to alter into other channels by choosing in the item of Device Output (refer to “2.9 Device Output”).

(1.4) Gain adjustment

There are total three options for respective setting: Pos 0, Pos 1, and Pos 2.

(1.4.1) Pos 0

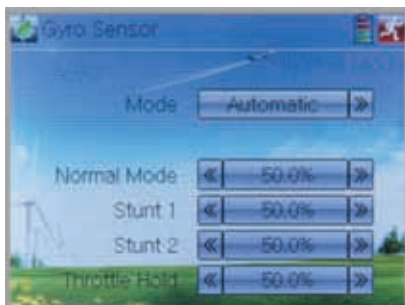
Touch the left or right navigation mark of Pos 0 to decrease or increase the amount, respectively. If the gyro you use owns two modes of NOR or AVCS, AVCS will be activated when the amount is above 50.0%. The bigger the amount is, the bigger the gyro sensor gain becomes. The default setting is 50.0%.

(1.4.2) Pos 1

Refer to the step of “(1.4.1) Pos 0”.

(1.4.3) Pos 2

Refer to the step of “(1.4.1) Pos 0”.



(2) Automatic setting

(2.1) Mode selection

Touch the navigation of Mode and expand into two options: Manual and Automatic. Select Automatic.


(2.2) Channel output

The default setting is AUX 2. It is possible to alter into other channels in the interface of Device Output (Refer to “2.9 Device Output”).

(3) Flight mode selection

All the flight modes are shown in the right interface which includes Normal Flight, Stunt 1, Stunt 2, and Throttle Hold. Throttle Hold Switch should be activated in Device Select (Refer to “2.8 Device Select”).

Click the left or right navigation mark of the flight mode, which you want to automatically adjust, to decrease or increase the amount of gyro gains, respectively. If the gyro you use has two modes of NOR or AVCS, when the amount is less than 50.0%, NOR mode is activated. The lesser the amount is, the bigger the gyro gain becomes. The default setting is 50.0%.

Click the icon  to exit after finished.

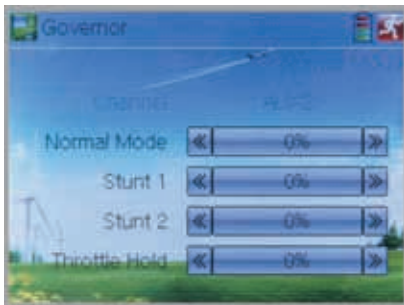
3.9 Governor

Governor should be set at Device Output (Refer to “2.9 Device Output”).

The control proportion of governor can be separately set in various flight modes. For the absolute revolution amount, please set in external governor. The amount shown in DEVO-8S’s governor is just a percentage for reference. The actual revolution should be read in the external governor.

Setting method:

Touch the icon  to enter Function Menu, and then click the icon  to enter the governor interface.



The output channel, current statuses of flight modes and usable flight modes are shown in the interface. According to the requirement, touch the corresponding flight mode to set the amount. Click the left or right navigation mark to separately decrease or increase the amount. The adjustable range is $\pm 125\%$. The usable flight modes include Normal Mode, Stunt 1, Stunt 2, and Throttle Hold.

Click the icon  to exit after finished.

3.10 Swash Mix

This function, which can be executed through flight mode, is used for amending the variation caused by swashplate movement. The amount of servos mix and Exponential will be shown in the right if two or more servos have been selected in Swash Type. (Refer to “2.10Swash Type”).

Setting method:

Touch the icon  to enter Function Menu and then touch the icon  to enter Swash Mix.



(1) Aileron Mix

Touch the left or right navigation mark of the aileron to decrease or increase, respectively, the mix amount. The mix direction can be reverted through altering the plus or minus sign before amount. The adjustable range is $\pm 125\%$.

(2) Elevator Mix

This function is base on “Swash Type” who chose 3 servos or above(Refer to “2.10 Swash Type”). Method is same as above.

(3) Mix setting for multi servos

This function is used for two or more servos selected (Refer to “2.10 Swash Type”). Method is same as above.

(4) Exponential setting

This function can execute the exponential changes, which are set at Dual Rate and Exponential in Function Menu. If Off is selected, the exponential curve will be changed in the form of fold line.

Setting method:

Touch the navigation mark of Exponential to expand two options: Off and On. the default setting is Off. On is recommended.All the data should be set as 0% if this function is not to be used.

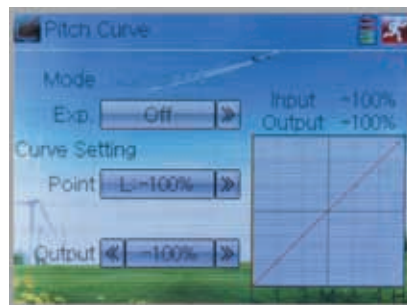
Then click to exit.

3.11 Pitch Curve

Seven-point adjustment method is allowed to set up all the pitch curves, respectively, in each flight mode, which includes Normal Mode, Stunt 1, Stunt 2, and Throttle Hold.

Setting method:

Touch the icon to enter Function Menu, and then click to enter Pitch Curve. A dropdown pops up “All Servos Hold?”. Click OK for all the servos will be locked at the current status; click Cancel for unlocked.Enter the next interface after clicking OK or Cancel.



(1) Exponential setting

Touch the navigation mark of Exponential to expand into two options Off and On. The pitch curve will be smoothly changed if clicking On. Or the pitch curve will be changed in the form of fold line if clicking Off.

(2) Curve setting

It includes four sub-items: Point, Status, Output, and Hovering.

(2.1) Point selection

Touch the navigation mark of Point and expand into seven points for selection. Touch the point that you want to amend.

(2.2) Status setting

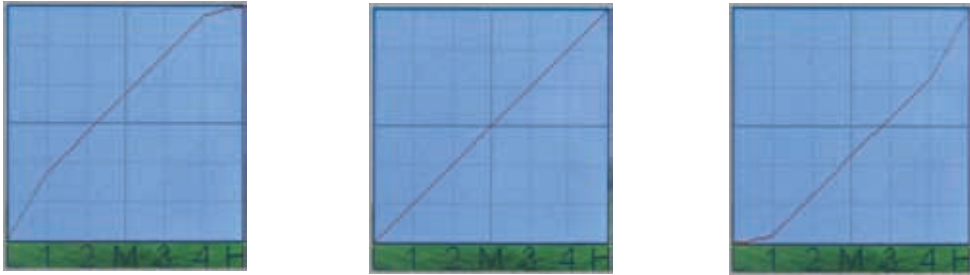
Touch the navigation mark of Status and expand into two options: **Inhibit** and **Active**. Click **Inhibit** for keeping the current amount of the selected point (the factory default setting is **Inhibit**); Click **Active** for changing its current amount with a dropdown of Output popped up.

(2.3) Output setting

Touch the left or right navigation mark of Output to decrease or increase, respectively, the output amount with a range from -100% to +100%.

(2.4) Hovering setting

After all the said steps finished, the item **Hovering** should be set as **On** as well as all the points in the pitch curve should be activated if it will be necessary for **PIT Trim** to be used in flight. The points of 1-2, M, 3-4 will be being paralleled to move the pitches up or down while adjusting **PIT Trim**.

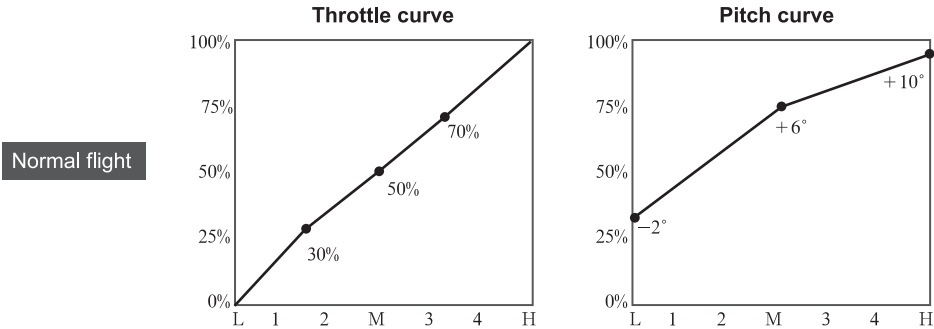


(3) Flight mode setting

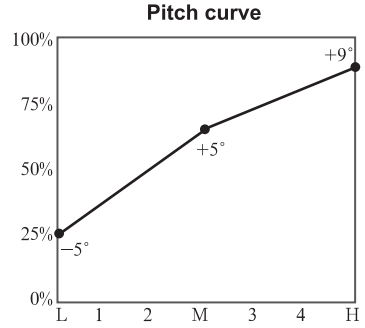
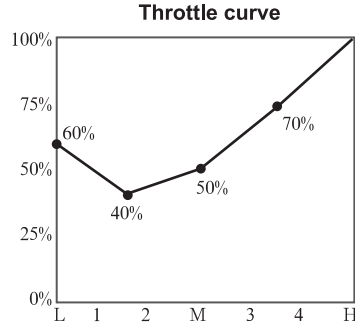
Flight Mode includes six sub-items: **Normal Mode**, **Stunt 1**, **Stunt 2**, and **Throttle Hold**. Their pitch curves can be separately set in their own flight modes. The setting method is same as above.

Click the icon  to exit after finished.

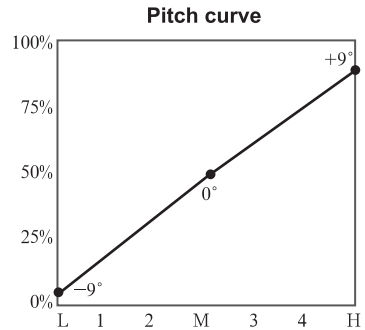
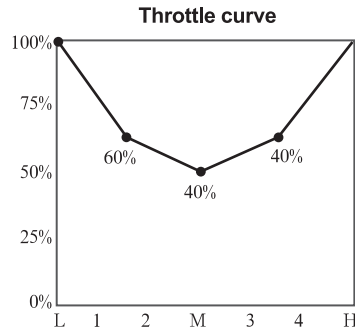
Below are shown several basic examples of **Throttle curves** and **Pitch Curves** for reference. Adjustment to the real flights is a must.



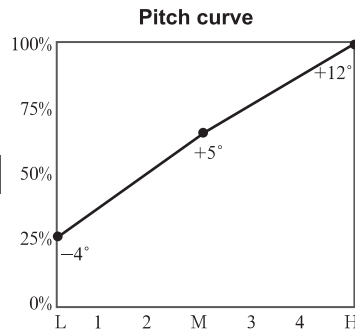
Flight mode 1



Flight mode 2



Autorotation landing



3.12 Program Mix

There are total eight sets of Program Mix. It is possible to freely set the channels and their amounts which you want to select and amend, respectively.

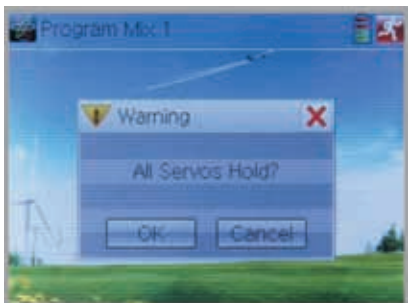
Setting method:

Touch the icon to enter Function Menu, and then click to enter the program mix interface. Eight Program Mix names and their current statuses are shown (the factory default setting is Inhibit). Take Program Mix 1 as an example to show how to use.



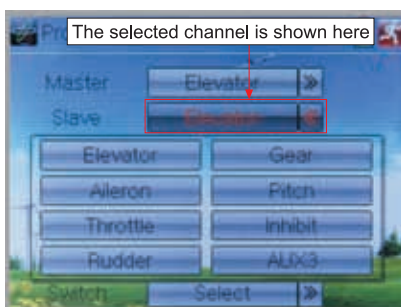
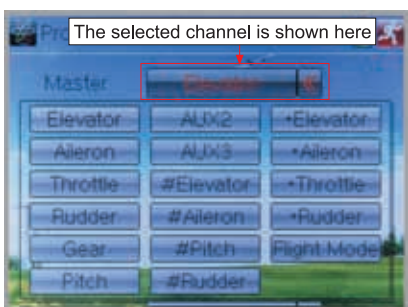
(1) Setting method for Normal in Program Mix 1

Touch the item Normal in Program Mix 1 and expands an enquiry "All Servos Hold?" Click OK for all the servos will be locked at the current statuses; click Cancel for unlocked. Enter the next interface after clicking.



(1.1) Master channel setting

Touch the navigation mark of Master and expands a selectable dropdown menu. After clicking the desired channel, the channel name will be shown in Master.



(1.2) Slave channel setting

Touch the navigation mark of Slave and expands a selectable dropdown menu. Click the desired channel which will be shown in Slave.

(1.3) Gain setting

Take Elevator at Master channel as an example.

(1.3.1) Mix amount setting when elevator stick moved upward

Touch left or right navigation mark of Up to decrease or increase, separately, the mix amount. It is possible to reverse mix direction through changing the plus or minus sign before amount. The adjustable range is $\pm 125\%$.

(1.3.2) Mix amount setting when elevator stick moved downward

Touch left or right navigation mark of Down to decrease or increase, separately, the mix amount. It is possible to reverse mix direction through changing the plus or minus sign before amount. The adjustable range is $\pm 125\%$.



(1.3.3) Offset setting

This function can make Slave begin to mix through the corresponding Lever switch from a certain point as the starting point.

Touch the left or right navigation mark of Offset to decrease or increase, respectively, the mix amount. It is possible to reverse the offset direction through changing the plus or minus sign before amount. The adjustable range is $\pm 125\%$.

(1.4) Switch selection

Touch the right navigation mark of Switch and pop up a dropdown menu which contains the adjustable items. Click the desired switch. Then touch the right navigation mark to return the previous interface.

Click the icon  to return to the interface of Program Mix for other setting, or click the icon  once again to exit.