

XAircraft Pilot Lamp 声光指示附件

XAircraft Pilot Lamp 声光指示附件用于指示飞行的状态，如飞行模式、GPS 状态、以及告警等。您只需要将声光指示附件连接到 FC1212-S 的 Output12 即可使用。

设计原则

XAircraft 在设计声光指示附件时，遵循下面的原则。这些原则可以让您更好的辨别飞行器的状态。

- 蜂鸣器叫得越快，飞行器状态越紧急。
- 灯闪得越快，您需要越注意飞行操作。
- 红灯亮起时，立即停止飞行。

符号

符号	蜂鸣器	灯
.	短鸣	快闪
-	慢鸣	慢闪
x	间隔	间隔
()	重复	重复
~	常鸣	常亮

示例 (蜂鸣器) : (.x) 表示蜂鸣器持续短鸣, (-.x) 表示蜂鸣器长短重复地鸣叫。

状态指示

蜂鸣器	绿灯	蓝灯	红灯	指示意义
.				功能切换提示音。当您切换飞行模式、Carefree 等所有开关功能时，蜂鸣器会叫一声表示已经收到您的指令。
(..x)				遥控信号丢失。
	(..x)			常规 (航线) 模式。
		(..x)		姿态 (悬停) 模式；GPS 未接入。
		(-x)		GPS 接入，但未找到足够的可用卫星。
		~		GPS 就绪，可进行松杆悬停和自动返航。
(.....)			(.....)	AHRS 断开。
(.....)	(.....)	(.....)	(.....)	这是一个特殊信号，您可以通过遥控器来开启“Show Lamp!”功能。该信号可以辅助您在草丛中飞丢时寻找飞行器。

视频演示地址：<http://goo.gl/Vp0jH>

或访问原始链接：http://v.youku.com/v_show/id_XMjk3MDE5Mjgw.html

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XAircraft Pilot Lamp is used for indicating the status of copter, showing flight mode, function status and warning. You only need to plug the Pilot Lamp to output12 on FC1212-S to start to use it. And it requires v1.33 or higher FC firmware.

Design Rules

There's several rules when designing the indications that will make users understand the beeps and light flashes more easily.

- The faster the buzzer beeps, the more emergent is.
- The faster the flight flashes, the more careful user should be.
- The RED light only light up when serious problem occurred.

Symbols

Symbol	Buzzer Indication	Light Indication
.	short beep	short flash
-	long beep	long flash
x	interval (the interval between two indications)	interval
()	repeat	repeat
~	yowl (beeping always)	always on

For example(buzzer): (.x) means the buzzer will short beep again and again, (-.x) means the buzzer will has a long beep then a short beep, and repeats long beep short beep.

Indications

Buzzer	Green Light	Blue Light	Red Light	Indication
.				Function Changed. When you switch the function status (change Flight Mode, turn on/off carefree, turn on/off heading hold, etc.), then buzzer will beep once to tell you the FC has reacts your operation.
(..x)				RC Signal lost, that means the receiver is disconnected with the radio. But not support all the receivers.
	(..x)			Flight Mode is NORMAL(CRUISE MODE).
		(..x)		Flight Mode is ATTITUDE(HOVER MODE), and GPS is not plugged-in.
		(-x)		GPS is plugged-in, but not available.
		~		GPS is ready. Position Hold and Return to Home are available.
(.....)			(.....)	AHRS is disconnected.
(.....)	(.....)	(.....)	(.....)	This is a special signal that can be turn on by your radio. When 'Show Lamp!' is on, the buzzer and lights will shows this signal. It can help you to find the copter when you lost it in the grass.

Video Tutorial: <http://vimeo.com/28593248>