



~ Preliminary ~

April 25, 2007

## Stinger Pro™ AVD™ Transmitter

*\*Audio-Video-Data*

### Operating Instructions

*Iftron reserves the right to make product changes and improvements without prior notice.*

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#### **Introduction**

The Iftron Stinger Pro is a highly versatile transmitter embodying advanced techniques and user configurable options. A few minutes spent understanding Stinger's capabilities will insure that you get the best possible performance.

**Caution!** Due to the high power of this transmitter operation without a properly rated antenna can damage or destroy the product. Always attach a 50 ohm antenna rated for 2.4GHz-2.5GHz before applying power!

**Caution!** Stinger Pro comes with a Universal Camera Power Supply that can be configured to power **5V** or **12V** cameras. Improper configuration can damage or destroy your camera!

Operate with the jumper **OFF** for **5V** cameras!

Operate with the jumper **ON** for **12V** cameras!

#### **Power Source:**

Stinger can be powered from any current-capable DC source from 5 to 15 VDC. Examples of acceptable power sources are:

- Wall transformers supplying from 5 to 15 VDC regulated
- 2 or 3 lithium ion or lithium poly cells
- 5 to 8 Nicad or NiMH cells

- 6V or 12V gel cells

### **Connections:**

- Connect a 2.4-2.5GHz antenna to the SMA connector.
- Connect a DC power source to the red (+) and black (-) twisted wire pair of the wiring harness.
- Connect an optional lectret microphone to the 2.5mm audio input jack tip and ground.
- Connect an optional line-level audio or data source to the 2.5mm audio input jack ring and ground.
- Connect a video camera to the UCPS (Universal Camera Power Supply) only after configuring the UCPS for the correct voltage.

Jumper **OFF** for **5V** cameras!

Jumper **ON** for **12V** cameras!

### **Mounting:**

The Stinger Pro is so small and light (0.5Oz.) that it may be mounted using Velcro or double sided foam tape. Attach Velcro or tape the back side (circuit side), **not** the label side of the transmitter and mount where desired. Alternately, the Stinger may be mounted by the SMA connector using a bracket of any sort. If using a metal "L" bracket, insure enough space between Stinger's circuitry and the bracket to preclude causing a short.

**Caution!** Unplug the harness by grasping the edges of the connector. Never pull on the wires or the harness may be damaged.

**Tip:** Use the hole next to the connector and a tie wrap to strain relieve the wiring harness.

**Environmental considerations:** Stinger is conformal coated to protect the circuitry but Stinger is not designed to be used where it may get wet. If necessary, protect from moisture and condensation with a plastic bag or other enclosure. Wrapping Stinger in thermally insulating materials is not recommended.

### **Selecting a transmitting frequency:**

Stinger can transmit on 1 of 4 selected frequencies. Move the slide switch from left to right to transmit on the desired frequency as shown below:

<b>Position</b>	<b>Frequency (GHz)</b>
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<b>1 (leftmost)</b>	<b>2.414</b>
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<b>2</b>	<b>2.432</b>
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<b>3</b>	<b>2.450</b>
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<b>4</b>	<b>2.468</b>
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