



**1stRadarDetectors**  
 PO Box 549  
 Niwot, CO, USA 80544

**TLP, Blinder, Bel, Escort, Valentine**  
 Tel 303-678-9101 Cel: 720-635-3931  
 Fax 303-678-9103 Cel: 720-298-0557  
 Email F.John.Turner@1stRadarDetectors.com  
 Web www.1stRadarDetectors.com

Best in Test  
 Radar, Laser & Photo  
 Countermeasures

## Valentine One Upgrade to V1 Remote, Instructions, April 2008

1. Your Valentine One Upgrade to V1 Remote parts are described below
  - a) Bottom Enclosure
  - b) Top Enclosure
  - c) Foam insert
  - d) Long Power Cord, 12 to 14 feet
  - e) Short Power Cords 6 Feet
  - f) Remote Display
  - g) Remote Audio Control
  - h) 6 self tapping screws (includes extra screws) + Installation Bar (as needed) + J Hooks



2. Your Enclosure is packaged as one piece in your order. Gently separate the top enclosure from the bottom enclosure, and set the bottom enclosure on a table top. Note the power cable installed in the enclosure can be removed, but do not remove it. Note how the cable is wrapped inside the enclosure to prevent the cable assembly from being pulled out of the enclosure, when fully assembled.



**Rated #1, 360° High Performance, PRS1-STiR-360™ Prowler Remote™ System**

PROWLER Remote, PRS1-STiR-360, PRS1-V-360, PRS2-V, PRS2-STiR, PRS3-V, PRS4-V, PRS4-STi, Got Performance are trademarks of 1stRadarDetectors. All rights reserved. Copyright 1999-2009.

**Got Performance™**



**1stRadarDetectors**  
 PO Box 549  
 Niwot, CO, USA 80544

**TLP, Blinder, Bel, Escort, Valentine**  
 Tel 303-678-9101 Cel: 720-635-3931  
 Fax 303-678-9103 Cel: 720-298-0557  
 Email F.John.Turner@1stRadarDetectors.com  
 Web www.1stRadarDetectors.com

Best in Test  
 Radar, Laser & Photo  
 Countermeasures

- Turn the power button of your Val 1 on (fully clockwise), and turn the rotary dial around the power button fully clockwise. If you forget this step, you will have to open the V1 Remote up later after you have assembled the V1.



- Insert your Valentine one in the bottom Enclosure by holding the Val 1 as shown right. Connect the RJ11 Tel plug at the left into the Val 1 RJ11 jack on left side, and gently set the Val 1 down in the bottom enclosure. There are position tabs to center the Val 1 in the correct center position of the lower enclosure.



- Once you have the Val 1 plugged in with the power button turned on, your V1 should look as shown right.



**Rated #1, 360° High Performance, PROWLER Remote System**  
 PROWLER Remote, PRS1-STIR-360, PRS1-V-360, PRS2-V, PRS2-STIR, PRS3-V, PRS4-V, PRS4-STI, Got Performance are trademarks of 1stRadarDetectors. All rights reserved. Copyright 1999-2009.  
**Got Performance™**



## 1stRadarDetectors

PO Box 549  
Niwot, CO, USA 80544

Best in Test  
Radar, Laser & Photo  
Countermeasures

## TLP, Blinder, Bel, Escort, Valentine

Tel 303-678-9101 Cel: 720-635-3931  
Fax 303-678-9103 Cel: 720-298-0557  
Email [F.John.Turner@1stRadarDetectors.com](mailto:F.John.Turner@1stRadarDetectors.com)  
Web [www.1stRadarDetectors.com](http://www.1stRadarDetectors.com)

6. Place the top Enclosure on the table and open the Silicon Tube provided by opening a small hole at the tip. DO NOT MAKE A LARGE OPENING, AS THIS WILL ALLOW TOO MUCH SILICON TO COME OUT WHEN SQUEEZED. Start at one corner and run a silicon bead into the female opening around the enclosure. Don't worry if the silicon runs a little to the outside, as you can wipe it off later. It is important to get the silicon in the female groove all the way around.



7. The Val 1 is setting inside the bottom enclosure. Set the top enclosure down, and go to your bottom enclosure, and gently lift up the cable insert (where the RJ11 cable comes into the bottom enclosure) and lift it just above the opening as this image shows. To the right. Using your Silicon tube, squeeze silicon all around the connector. Squeeze silicon into the front and back of the connector, filling the connector inside; such that when you pus it back down in position, the silicon seals 360 degrees around the connector. Don't worry about how much silicon you squeeze into this area. Be generous as you are making the Valentine water tight.



**Rated #1, 360° High Performance, PRS1-STiR-360™ Prowler Remote™ System**

PROWLER Remote, PRS1-STiR-360, PRS1-V-360, PRS2-V, PRS2-STiR, PRS3-V, PRS4-V, PRS4-STi, Got Performance are trademarks of 1stRadarDetectors. All rights reserved. Copyright 1999-2009.

**Got Performance™**





## 1stRadarDetectors

PO Box 549  
Niwot, CO, USA 80544

Best in Test  
Radar, Laser & Photo  
Countermeasures

## TLP, Blinder, Bel, Escort, Valentine

Tel 303-678-9101 Cel: 720-635-3931  
Fax 303-678-9103 Cel: 720-298-0557  
Email [F.John.Turner@1stRadarDetectors.com](mailto:F.John.Turner@1stRadarDetectors.com)  
Web [www.1stRadarDetectors.com](http://www.1stRadarDetectors.com)

10. Hold the assembled units together and turn over and lay down on the table, holding your hand on top of the assembled enclosures. Place 6 screws down inside each screw hole and use a screw driver to gently push each screw down to the bottom of the hole. Using your screw driver, screw one corner down, go to each corner and screw down, then the middle two screws. When all 6 screws are tightened, go back and gently re-tighten each screw. Do not over tighten! If you have a torque wrench, start at your lowest setting and work upwards until you have screwed all 6 screws in with the same torque setting. **Allow the V1 Remote to dry overnight before going to the next step.**



11. Hook up the V1 Remote as shown below

**Rated #1, 360° High Performance, PRS1-STiR-360™ Prowler Remote™ System**

PROWLER Remote, PRS1-STiR-360, PRS1-V-360, PRS2-V, PRS2-STiR, PRS3-V, PRS4-V, PRS4-STi, Got Performance are trademarks of 1stRadarDetectors. All rights reserved. Copyright 1999-2009.

**Got Performance™**



# 1stRadarDetectors

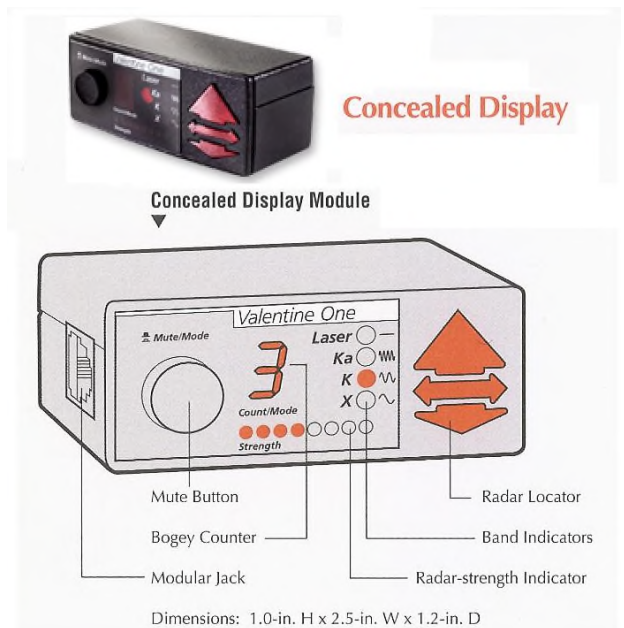
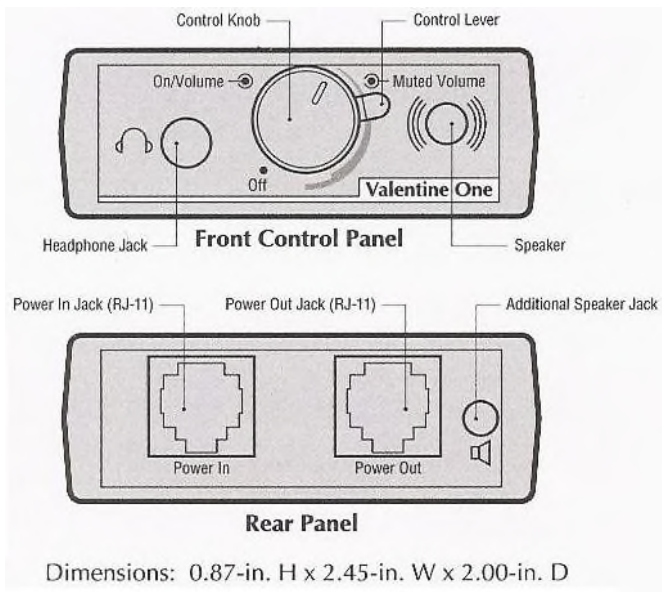
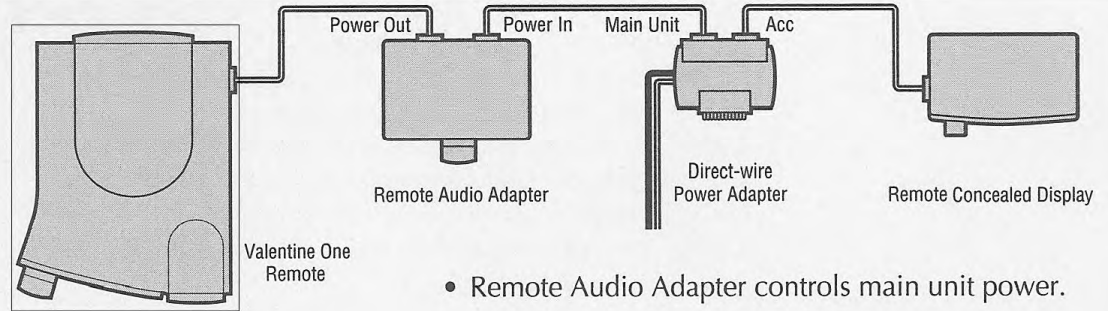
PO Box 549  
Niwot, CO, USA 80544

Best in Test  
Radar, Laser & Photo  
Countermeasures

# TLP, Blinder, Bel, Escort, Valentine

Tel 303-678-9101 Cel: 720-635-3931  
Fax 303-678-9103 Cel: 720-298-0557  
Email F.John.Turner@1stRadarDetectors.com  
Web www.1stRadarDetectors.com

Install according to the following diagram:



- Connect to Vehicle 12 volts, turn power on the remote audio unit and ensure the V1 boots up correctly. If the display does not turn on, you have wired the V1 Remote modules incorrectly. Check each connection and find what has been mis-wired. When wired correctly, the display will light up and go thru a self test; and the volum control on the audio using will control volume and On/Off. When you are sure you are operating correctly, go

## Rated #1, 360° High Performance, PRS1-STiR-360™ Prowler Remote™ System

PROWLER Remote, PRS1-STiR-360, PRS1-V-360, PRS2-V, PRS2-STiR, PRS3-V, PRS4-V, PRS4-STi, Got Performance are trademarks of 1stRadarDetectors. All rights reserved. Copyright 1999-2009.

**Got Performance™**



## 1stRadarDetectors

PO Box 549  
Niwot, CO, USA 80544

## TLP, Blinder, Bel, Escort, Valentine

Tel 303-678-9101 Cel: 720-635-3931  
Fax 303-678-9103 Cel: 720-298-0557  
Email F.John.Turner@1stRadarDetectors.com  
Web www.1stRadarDetectors.com

Best in Test  
Radar, Laser & Photo  
Countermeasures

to step 13.

13. Use J Hooks hardware to install Remote Kit behind grille of vehicle, or on top of Ski Rack, or just under the bumper. The higher the position, the better the performance. A bracket is provided.
14. If your vehicle is an SUV or pickup truck or larger, you can install under the bumper. If the install location is good (typically just under the height of the bumper and approximately 18" back), the V1 will detect radar to the front with excellent sensitivity and to the rear with reasonable sensitivity. Do not install too low due to potential road damage to the V1 Remote, when parking or going over parking lot bumps.
15. The cable protruding from the Remote Kit is the rear of the kit facing the engine compartment.
16. If installed behind the grille, rear radar detection will be significantly reduced. Ensure no metal is in front of the V1 Remote, and ensure V1 Remote is kept away from radiator to prevent heat damage. If installed inside a front, foam core bumper, ensure no metal is in front of the V1 Remote.
17. Run the 14 foot cable into the cockpit and hook up according to electrical layout highlighted above. **If the cabling is ran differently than shown above, there will be no display on the Remote Concealed Display.**
18. Call TLP on any questions you have or to order remote electronic display, audio control and cabling.

### How To Change V1 Remote and Valentine One Programming. Call us at 303-678-9101 if you want help in changing your V1 modes of operation. Change Modes at your own risk!

#### I. How to enter the Programming Mode.

- Starting with the Control Knob in the "off" position, Press and hold-in Knob and at the same time turn the Knob "on;" continue holding in the Knob until all front-panel lights are on (takes about 5 seconds).
- Release the Control Knob.

#### II. How to determine your software version.

- Press and immediately release the Control Knob (shown at right) to display software version. The software-version number is four digits that display one digit at a time in the Bogey Counter-example: 2.869.
- Note your software number, then see the tables on the following pages on features programmable in your unit.
- Press and immediately release the Control Knob to exit software-version display and go to Step 1 programming.



#### III. How to program your desired features.

- The feature character is indicated in the "Bogey Counter" (1, 2, 3, 4, 5, 6, 7, 8, A, b, C, d, E, F, G, H, J, or u).
- To select the next Feature Character in the sequence, press and immediately release the Control Knob.
- The Feature State is indicated by direction arrows on the Radar Locator. The Feature State is changed by pressing and holding the Control Knob until the arrow switches to the opposite direction (takes about 3 seconds). NOTE: If you need to return to an earlier Character in the sequence above, we recommend you switch off the power momentarily, then restart at step I above. **The numerical program modes of interest are as follows:**

**Rated #1, 360° High Performance, PRS1-STiR-360™ Prowler Remote™ System**

PROWLER Remote, PRS1-STiR-360, PRS1-V-360, PRS2-V, PRS2-STiR, PRS3-V, PRS4-V, PRS4-STi, Got Performance are trademarks of 1stRadarDetectors. All rights reserved. Copyright 1999-2009.

**Got Performance™**



# 1stRadarDetectors

PO Box 549  
Niwot, CO, USA 80544

# TLP, Blinder, Bel, Escort, Valentine

Tel 303-678-9101 Cel: 720-635-3931  
Fax 303-678-9103 Cel: 720-298-0557  
Email F.John.Turner@1stRadarDetectors.com  
Web www.1stRadarDetectors.com

Best in Test  
Radar, Laser & Photo  
Countermeasures

- **US/Canadian/HK** Frequency: #1 (X band **ON** = **OFF** = Don't change any other mode on US/Canada!
- **EUROPE / AU** Frequency #1 (X band **OFF** = )
- **EUROPE / AU** Frequency #2 (K = 24.125GHz : **ON** = )
- **EUROPE / AU** Frequency #3 (Ka band **ON** = )
- **EUROPE / AU** Band #4 (Laser **ON** = )
- **EUROPE / AU** Frequency #4 #H (Ku **ON** = )
- **EUROPE / AU** Frequency #J (POP3 **ON** = )
- **EUROPE / AU** Frequency #U (Euro Ka = 34.2GHz, Narrowband Ka **ON** = )

Feature Character (see factory manual) Arrow Direction	Description	Software Version										Factory Setting	
		2.680 - 2.885	2.845	2.865	2.875 - 2.989	3.015 - 3.092	3.015 - 3.015	3.018 - 2.817	3.015 - 3.015	3.017 and higher			
This section allows you to turn off coverage of each radar band and laser.													
1	X band on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	X band off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	K band on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	K band off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	Ka band on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ka band off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	Laser on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Laser off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to adjust the response of the signal-strength meter for Ka band only. V1's radar and laser sensitivity will not be changed.													
5	Normal.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	More Responsive.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to switch off the False-Alarm Guard or Ka band.													
6	Guard on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Guard off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to switch on a feature that automatically mutes K-band alerts under certain circumstances. Feature Characters b, C, d, E, F, and G set the specifications of those circumstances. This automatic muting will happen in L and L modes only. Enable this feature only when planning long-term operation in an area with frequent K-band false alarms.													
7	Features b thru G inactive.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Features b thru G enabled.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to suppress the warning sound completely when you press to mute.													
8	Muted vol. set by Control Lever	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Muted volume set to zero.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to change volume of any Bogey Lock Tones that occur after you press Mute.													
A	Volume is set by Control Knob.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Volume is set by Control Lever.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Do not change any other mode!**

#### IV. How to exit the Programming Mode.

- Switch power off, or unplug. The changes you programmed will be retained in memory.

#### V. How to tell if V1 has been changed from factory settings.

- If the unit has been changed, P will appear briefly in the Bogey Counter soon after V1 is switched on (after the lamps-on test, but before the Mode indicator appears.)
- On V1s with serial numbers ending in 0600 or higher, a flashing red LED just to the right of the Bogey Counter during the sequence above indicates that Ku coverage has been activated.

#### S1-STiR-360™ Prowler Remote™ System

-STi, Got Performance are trademarks of 1stRadarDetectors. All rights reserved. Copyright 1999-2009.

Got Performance™



# 1stRadarDetectors

PO Box 549  
Niwot, CO, USA 80544

Best in Test  
Radar, Laser & Photo  
Countermeasures

# TLP, Blinder, Bel, Escort, Valentine

Tel 303-678-9101 Cel: 720-635-3931  
Fax 303-678-9103 Cel: 720-298-0557  
Email F.John.Turner@1stRadarDetectors.com  
Web www.1stRadarDetectors.com

Feature Characteristic	b	c	d	Software Version Feature Availability											
				2.889 - 2.895	2.899	2.899	2.879 - 2.899	3.019 - 3.002	3.012 - 3.013	3.016 - 3.017	3.018 - 3.019	3.021 and higher			
This section allows you to establish a time period of automatic muting at the onset of K-band alerts, in seconds. It may be helpful to think of b, C, and d as dip switches. The direction of the arrows in b, C, and d taken together, select the seconds of muting. <i>Example:</i> If you have Software Version 2.869 and want 3 seconds of muting at the onset of a K-band alert, set the arrows downward in b, C, and d.															
Remember, features in this section are <i>not</i> enabled as factory settings															
	b	C	d		Seconds										K-band Initial Mute Period (seconds)
	▲	▲	▲	Factory default	n/a	3	10	10	10	10	10	10	10	10	
	▼	▲	▲		n/a	4	9	30	30	30	30	30	30	30	
	▲	▼	▲		n/a	5	8	20	20	20	20	20	20	20	
	▼	▼	▲		n/a	6	7	15	15	15	15	15	15	15	
	▲	▲	▼		n/a	7	6	7	7	7	7	7	7	7	
	▼	▲	▼		n/a	8	5	5	5	5	5	5	5	5	
	▲	▼	▼		n/a	9	4	4	4	4	4	4	4	4	
	▼	▼	▼		n/a	10	3	3	3	3	3	3	3	3	

Feature Characteristic (See Bogey Counter)	Arrow Direction	Description	Software Version										Factory Setting	
			2.889 - 2.895	2.899	2.899	2.879 - 2.899	3.019 - 3.002	3.012 - 3.013	3.016 - 3.017	3.018 - 3.019	3.021 - 3.023	3.024 and higher		
This section allows you to set an automatic override of the muting time you set in b, C, and d; if K-band strength exceeds four LEDs on the Signal Strength Meter at the onset of the encounter, there will be no muting.														
E	▲	Unmute at four lights.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Stay muted at four lights.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to set an automatic override of the muting time you set in b,C and d; if K-band strength slowly rises to six LED's on the Signal Strength Meter, sound will unmute.														
F	▲	Unmute at six lights.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Stay muted at six lights.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to automatically mute all K-band alerts when they are behind you.														
G	▲	Don't mute rear K-band.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Mute rear K-band.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to turn on coverage of Ku band. <a href="#">For more on Ku band, click here</a>														
H	▲	Ku off.	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Ku on.	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to turn factory test on and off.														
I	▲	Factory test off.	n/a	n/a	n/a	n/a	✓	n/a	n/a	n/a	n/a	n/a	n/a	✓
	▼	Factory test on.	n/a	n/a	n/a	n/a	✓	n/a	n/a	n/a	n/a	n/a	n/a	✓
This section allows you to turn PDP on and off.														
J	▲	PDP on.	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓	✓
	▼	PDP off.	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓	✓
This section allows you to turn European Mode on and off. <a href="#">For more on European Mode, click here</a>														
U	▲	Euro off.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓
	▼	Euro on.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓
This section allows you to turn European X band on and off.														
ū	▲	Euro X band off.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓	✓
	▼	Euro X band on.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓	✓

Euro K band is at 24.125GHz. Wideband Ka is turned off when Euro Ka is turned on. Ku is used in UK, Netherlands, Northern France, Taiwan, Belgium, but not in the USA as of Jan07.

The Euro Mode and Ku band are separate features and require separate activation. Euro Mode is a narrowband Ka used in Europe and Australia on photo speed traps.

When Euro Mode has been activated, upon power up you will see the sequence "E," "u," "r" appear in the Bogey Counter. When the power-up sequence is



## **1stRadarDetectors**

**PO Box 549  
Niwot, CO, USA 80544**

## **TLP, Blinder, Bel, Escort, Valentine**

**Tel 303-678-9101 Cel: 720-635-3931  
Fax 303-678-9103 Cel: 720-298-0557  
Email F.John.Turner@1stRadarDetectors.com  
Web www.1stRadarDetectors.com**

**Best in Test  
Radar, Laser & Photo  
Countermeasures**

complete, the Bogey Counter will show either "U" or "u." Pressing the Control Knob will toggle between them.

Select "U" to enable both K and narrowband Ka (Photo) bands. Select "u" to enable only narrow Ka band.

### **Euro Ka (Big U) mode detects:**

**Ka POPIII 33.8GHz**

**KA Narrowband 33.97GHz to 34.65GHz after July 2006 (Rev 3.8.5.1 and later**

**KA Narrowband 34.2GHz to 34.45GHz before July 2006**

**K 24.125GHz and K POPIII radar**

**X turned off**

**Euro X: little u turned on**

### **Euro Ka (little u) mode detects:**

**Ka POP 33.8GHz**

**KA Narrowband 33.97GHz to 34.65GHz after July 2006 (Rev 3.8.5.1 and later**

**KA Narrowband 34.2GHz to 34.45GHz before July 2006**

**All K turned off**

**All X turned off**

**Euro Ku: 13.45 GHz**