

# ODIN C-497

## OWNER'S MANUAL

ROCKY MOUNTAIN

## INTRODUCTION

Thank you for purchasing the ODIN C-497 radar/laser developed by Rocky Mountain Radar. ODIN C-497 is the first and unique sophisticated radar and laser detector in the world which has very good performance.

We are pleased to have you as a valued customer and hope you will be delighted with your ODIN C-497. This manual provides all the information you need putting the ODIN C-497 to work for you.

**NOTE:** Always obey all local and federal laws when using this device.

FCC ID: QKK-ODN contains FCC ID: W75-BTM0

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

In addition, any changes or modifications to this product, which are not expressly approved by Rocky Mountain Radar in writing, could void the user's authority to operate this product.

# ODIN C-497

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### FEATURE

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1. X, K, Ka Band, Laser Detection
2. Display : 256x32 Pixel RED OLED
3. 4 Button : [MENU]-[DIM]-[MUTE]-[CITY]
4. Dim Mode : BRIGHT -> DIM -> DIMMER -> DARK
5. Mute On -> AutoMute -> Mute Off
6. City Mode : HIGHWAY <-> CITY
7. Voice On / Off
8. Voice Language : ENGLISH / SPANISH
9. Alarm Tone : HIGH / LOW
10. X Band On/Off
11. K Band On/Off
12. Ka Band On/Off
13. Laser On/Off
14. K Narrow/Wide
15. Ka Narrow/Wide
16. K Band Filter On/Off
17. TSF On/Off
18. Voltage Meter On/Off
19. Scrambler On/Off
20. Self Test On/Off
21. Factory Reset Mode
22. User Setting Memory
23. Factory Test Mode

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### Display

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1. RED OLED Display with 256x32 Pixel
2. Display on Stand by Mode
  - 2.1. HIGHWAY : "□□□□HIGHWAY□□□□"
  - 2.2. CITY : "□□□□□CITY□□□□□"
3. Display for Laser/Radar Alerts
  - 3.1. Laser  
"□□□□LASER□□□□□"
  - 3.2. X Band  
"□□□□X▶□□□□1□□□"  
"□□□□X▶▶□□□□2□□□"  
"□□□□X▶▶▶□□□□3□□□"  
"□□□□X▶▶▶▶□□□□4□□□"  
"□□□□X▶▶▶▶▶□□□□5□□□"
  - 3.3. K Band  
"□□□□K▶□□□□1□□□"

"□□□□K□▶▶□□□□2□□□"  
 "□□□□K□▶▶▶□□□□3□□□"  
 "□□□□K□▶▶▶▶□□□□4□□□"  
 "□□□□K□▶▶▶▶▶□□□□5□□□"

### 3.4. Ka Band

"□□□Ka□▶□□□□□1□□□"  
 "□□□Ka□▶▶□□□□2□□□"  
 "□□□Ka□▶▶▶□□□□3□□□"  
 "□□□Ka□▶▶▶▶□□□□4□□□"  
 "□□□Ka□▶▶▶▶▶□□□□5□□□"

### 3.5. RD ( K, Ka Band ) Alarm Levels : 1-5

## 4. Dim Mode

- 4.1. BRIGHT : OLED Display brightens.
- 4.2. DIM : OLED Display dims.
- 4.3. DIMMER : OLED Display gets dimmer.
- 4.4. DARK : OLED Display turns off, only a small dot is moving from left to right regardless of alarms..

## Preamble

1.If Self test mode is on , Self test will start in the order of the following after the start message «Rocky Mountain Radar»

- 1) Scrambler Test ( Only if Scrambler mode is on )
- 2) X Alarm (Signal Strength level 1-5)
- 3) K Alarm (Signal Strength level 1-5)
- 4) Ka Alarm (Signal Strength level 1-5)
- 5) Laser Alarm

User settings on Voice on/off, language, Alarm Sound Tone, Scrambler ON/Off will be applied as they are.

### 1.1. Display and Audio Alarms on Self Test Mode

- 1) "□SCRAMBLER□TEST□" ( Display & Scrambler Test Sound – only when Scrambler Mode is On)
- 2) "□□□□X□▶□□□□□1□□□" ~ "□□□□K□▶▶▶▶▶□□□□5□□□" ( K Display & Sound Alarm )
- 3) "□□□□K□▶□□□□□1□□□" ~ "□□□□K□▶▶▶▶▶□□□□5□□□" ( K Display & Sound Alarm )
- 4) "□□□Ka□▶□□□□□1□□□" ~ "□□□Ka□▶▶▶▶▶□□□□5□□□" ( Ka Display & Sound Alarm )
- 5) "□□□□□LASER□□□□□" ( Laser Display & Sound Alarm )

2. After Self test, display will show status of user settings in the order of the following.

- 1) Voice On/Off (only display, No beep)
- 2) English/Spanish (only display, No beep)
- 3) Tone High/Low (only display, No beep)
- 4) X Band On/Off (only display, No beep)
- 5) K Band On/Off (only display, No beep)
- 6) Ka Band On/Off (only display, No beep)
- 7) Laser On/Off (only display, No beep)
- 8) K Narrow/Wide (only display, No beep)

- 9) Ka Narrow/Wide (only display, No beep)
- 10) K Band Filter On/Off (only display, No beep)
- 11) TSF On/Off (only display, No beep)
- 12) Voltage Meter On/Off (only display, No beep)
- 13) Scrambler On/Off (only display, No beep)
- 14) Self Test On/Off (only display, No beep)
- 15) Dim Mode (only display, No beep)
- 16) Mute Mode (only display, No beep)

2.1. Display will show the following according to the settings.

- 1) Voice On/Off : "□□□□VOICE□ON□□□□" / "□□□□VOICE□OFF□□□□"
- 2) English/Spanish : "□□□□ENGLISH□□□□□□" / "□□□□SPANISH□□□□□□"
- 3) Tone High/Low : "□□□□TONE□HIGH□□□□" / "□□□□TONE□LOW□□□□□"
- 4) X Band On/Off : "□□□X□Band□On□□□□" / "□□□X□Band□Off□□□□"
- 5) K Band On/Off : "□□□K□Band□On□□□□" / "□□□K□Band□Off□□□□"
- 6) Ka Band On/Off : "□□Ka□Band□On□□□□" / "□□Ka□Band□Off□□□□"
- 7) Laser On/Off : "□□□□Laser□On□□□□" / "□□□□Laser□Off□□□□"
- 8) K Narrow/Wide : "□□□□K□Narrow□□□□" / "□□□□□K□Wide□□□□□"
- 9) Ka Narrow/Wide : "□□□Ka□Narrow□□□□" / "□□□□□Ka□Wide□□□□□"
- 10) K Band Filter On/Off : "□□K□FILTER□ON□□□□" / "□□K□FILTER□OFF□□□□"
- 11) TSF On/Off : "□□□□□TSF□On□□□□□□" / "□□□□□TSF□Off□□□□□"
- 12) Voltage Meter On/Off : "VoltageMeter□On□" / "VoltageMeter□Off"
- 13) Scrambler On/Off : "□□SCRAMBLER□ON□□" / "□□SCRAMBLER□OFF□"
- 14) Self Test On/Off : "□□SELF□TEST□ON□□" / "□□SELF□TEST□OFF□"
- 15) Dim Mode : "□□□□□BRIGHT□□□□□□" / "□□□□□□DIM□□□□□□□□"/  
"□□□□□DIMMER□□□□□□"/ "□□□□□□DARK□□□□□□□"/
- 16) Mute Mode : "□□□□MUTE□ON□□□□□□" / "□□□□MUTE□OFF□□□□□"/  
"□□□□AUTOMUTE□□□□□"/

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## **BUTTON OPERATION**

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### 1. [MENU] Button

- 1.1. Press [MENU] Button to enter MENU Mode

### 2. [MUTE] Button

- 2.1. Press [MUTE] button to change Mute Mode (Mute Off -> Mute On -> AutoMute )
  - > Mute Off : "□□□□MUTE□OFF□□□□" with voice message (if voice on) or with 3beeps (if voice is off)
  - > Mute On : "□□□□MUTE□ON□□□□□" with voice message (if voice on) or with 1beep (if voice is off)
  - > AutoMute : "□□□□AUTOMUTE□□□□" with voice message (if voice on) or with 2beeps (if voice is off)

### 3. [CITY] Button

- 3.1. Press to change City Mode ( HIGHWAY <-> CITY )
  - > Highway : "□□□□□HIGHWAY□□□□" with voice message (if voice on) or with 2beeps (if voice is off)
  - > City : "□□□□□□CITY□□□□□□" with voice message (if voice on) or with 1beep (if voice is off)

3.2. Press and hold for 3sec. to change Scrambler Mode ( Scrambler On <-> Scrambler Off )

-> Scrambler On : “□□SCRAMBLER□ON□□” with 1beep

-> Scrambler Off : “□□SCRAMBLER□OFF□□” with 2beeps

#### [DIM] Button

1.1. Press [DIM] Button to change Dim Mode ( BRIGHT -> DIM -> DIMMER -> DARK)

-> BRIGHT : “□□□□□BRIGHT□□□□□” with voice message (if voice on), or with 4beeps (if voice is off)

-> DIM : “□□□□□□DIM□□□□□□□” with voice message (if voice on) or with 1beep (if voice is off)

-> DIMMER : “□□□□□DIMMER□□□□□” with voice message (if voice on) or with 2beeps (if voice is off)

-> DARK : “□□□□□□DARK□□□□□□□” with voice message (if voice on) or with 3beeps (if voice is off).

If setting is finished, you will see a small dot moving from left to right on display.

### Menu Mode

1. Press and hold [DIM/MENU] button for 3sec. to enter Menu Mode.

Display will show “□□□□=□MENU□=□□□□” with 1beep.

2. Menu List

Menu List	Options
Voice On/Off	Voice On <-> Voice Off
Voice Language Mode	English <-> Spanish
Alarm Sound Tone	High <-> Low
X Band On/Off	X Band On <-> X Band Off
K Band On/Off	K Band On <-> K Band Off
Ka Band On/Off	Ka Band On <-> Ka Band Off
Laser On/Off	Laser On <-> Laser Off
K Narrow/Wide	K Narrow <-> K Wide
Ka Narrow/Wide	Ka Narrow <-> Ka Wide
K Band Filter On/Off	K Band Filter On <-> K Band Filter Off
TSF On/Off	TSF On <-> TSF Off
BLE On/Off	BLE On <-> BLE Off
Voltage Meter On/Off	Voltage Meter On <-> Voltage Meter Off
Scrambler On/Off	Scrambler On <-> Scrambler Off
Self Test On/Off	Self Test On <-> Self Test Off

Factory Reset?	
MENU Exit	

### 3. Button Operation on Menu Mode

- 3.1. [DIM] Button : Scroll down on menu with one beep
- 3.2. [MENU] Button : Scroll up on menu with one beep
- 3.3. [MENU] or [CITY] button : Change or Select option on menu

### 4. You can choose one of the following in order to Exit Menu mode,

- 1) Select "Menu Exit" on menu list.
  - 2) Press and Hold [MENU] for 3sec. while on Menu Mode
  - 3) Do nothing for more than 10sec.
- Unit will flash "EXIT" twice with 2beeps and exit Menu Mode.

## Test Mode

### 1. Tutorial Mode

Test alarm will start in the following order.

- 1) Scrambler Test
- 2) K Alarm (Signal Strength 1-5 level)
- 3) Ka Alarm (Signal Strength 1-5 level)
- 4) Laser Alarm

User settings on Voice On/Off mode, Voice Language mode, Alarm Sound Tone will be applied as they are during Test Mode.

### 2. Display and sound during Test Mode

- 1) "SCRAMBLER TEST" ( Display & Scrambler Test Sound )
- 2) "K1" ~ "K5" ( K Display & Sound Alarm )
- 3) "Ka1" ~ "Ka5" ( Ka Display & Sound Alarm )
- 4) "LASER" ( Laser Display & Sound Alarm )

3. Display will show "TEST END" with 1beep when test alarm is finished.

4. Press any button ( [DIM/MENU], [MUTE], [CITY], [TEST] ) to stop test alarm during Test Mode.

## Factory Reset

- 1. When "Factory Reset?" is selected on menu, all settings will be reset to factory default.  
Display will flash "RESET COMPLETED" twice with 3 beeps.



## 2. Factory Default

Mode	Options	Factory Default
Dim Mode	BRIGHT → DIM → DIMMER → DARK	BRIGHT
Mute Mode	Mute On → AutoMute → Mute Off	Mute Off
City Mode	HIGHWAY ↔ CITY	HIGHWAY
Voice On/Off	Voice On ↔ Voice Off	Voice On
Voice Language Mode	English ↔ Spanish	English
Alarm Sound Tone	High ↔ Low	High
X Band On/Off	X Band On ↔ X Band Off	X Band On
K Band On/Off	K Band On ↔ K Band Off	K Band On
Ka Band On/Off	Ka Band On ↔ Ka Band Off	Ka Band On
Laser On/Off	Laser On ↔ Laser Off	Laser On
K Narrow/Wide	K Narrow ↔ K Wide	K Wide
Ka Narrow/Wide	Ka Narrow ↔ Ka Wide	Ka Wide
K Band Filter On/Off	K Band Filter On ↔ K Band Filter Off	K Band Filter On
TSF On/Off	TSF On ↔ TSF Off	TSF Off
BLE On/Off	BLE On ↔ BLE Off	BLE On
Voltage Meter On/Off	Voltage Meter On/Off	Voltage Meter On
Scrambler On/Off	Scrambler On ↔ Scrambler Off	Scrambler On
Self Test On/Off	Self Test On ↔ Self Test Off	Self Test On

3. After factory reset is done, Unit will show current settings in the following order and return to the first line of menu (Voice On/Off).

- 1) HIGHWAY ( Voice )
- 2) Mute Off ( Voice )
- 3) Voice On ( Voice )
- 4) ENGLISH ( Voice )
- 5) TONE HI( 3 Beep )
- 6) X Band On ( 1 Beep )
- 7) K Band On ( 1 Beep )
- 8) Ka Band On ( 1 Beep )
- 9) Laser On ( 1 Beep )
- 10) K Wide ( 1 Beep )
- 11) Ka Wide ( 1 Beep )

- 12) K Band Filter On ( 1 Beep )
- 13) TSF Off ( 2 Beep )
- 14) BLE On ( 1 Beep )
- 15) Voltage Meter On ( 1Beep )
- 16) Scrambler On ( 1 Beep )
- 17) SelfTest On ( 1 Beep )

## Memory

1. Unit will save user settings on the following modes, apply accordingly when unit is turned back on.

Mode	Options	Factory Default
Dim Mode	BRIGHT -> DIM -> DIMMER -> DARK	BRIGHT
Mute Mode	Mute On -> AutoMute -> Mute Off	Mute Off
City Mode	HIGHWAY <-> CITY	HIGHWAY
Voice On/Off	Voice On <-> Voice Off	Voice On
Voice Language Mode	English <-> Spanish	English
Alarm Sound Tone	High <-> Low	High
X Band On/Off	X Band On <-> X Band Off	X Band On
K Band On/Off	K Band On <-> K Band Off	K Band On
Ka Band On/Off	Ka Band On <-> Ka Band Off	Ka Band On
Laser On/Off	Laser On <-> Laser Off	Laser On
K Narrow/Wide	K Narrow <-> K Wide	K Wide
Ka Narrow/Wide	Ka Narrow <-> Ka Wide	Ka Wide
K Band Filter On/Off	K Band Filter On <-> K Band Filter Off	K Band Filter On
TSF On/Off	TSF On <-> TSF Off	TSF Off
BLE On/Off	BLE On <-> BLE Off	BLE On
Voltage Meter On/Off	Voltage Meter On/Off	Voltage Meter On
Scrambler On/Off	Scrambler On <-> Scrambler Off	Scrambler On
Self Test On/Off	Self Test On <-> Self Test Off	Self Test On

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## **Alert Priority**

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1. Laser Signal
2. K, Ka Band Signal

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## **Auto Mute Mode**

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1. Voice Off Mode
  - 1.1. When alarm starts, unit will alert with 4beeps and mute audio for 2minutes, and again alert with 4beeps and keep muted for 2minutes, it will go on this way until 2 minutes after the signal is gone.
  - 1.2. If another band is detected during AutoMute on first band signal, unit will restart alert with 4beeps and keep muted for 2 minutes , and go on this way until 2 minutes after the signal is gone.

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## **Laser / RD Alarm**

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### 1. Display for Laser/Radar Alarm

#### 1.1. Laser

"□□□□LASER□□□□"

#### 1.2. X Band

"□□□X□▶□□□□1□□"

"□□□X□▶▶□□□2□□"

"□□□X□▶▶▶□□3□□"

"□□□X□▶▶▶▶□□4□□"

"□□□X□▶▶▶▶▶□□5□□"

#### 1.3. K Band

"□□□K□▶□□□□1□□"

"□□□K□▶▶□□□2□□"

"□□□K□▶▶▶□□3□□"

"□□□K□▶▶▶▶□□4□□"

"□□□K□▶▶▶▶▶□□5□□"

#### 1.4. Ka Band

"□□□Ka□▶□□□□1□□"

"□□□Ka□▶▶□□□2□□"

"□□□Ka□▶▶▶□□3□□"

"□□□Ka□▶▶▶▶□□4□□"

"□□□Ka□▶▶▶▶▶□□5□□"

- 1.5. RD ( X,K, Ka Band ) has 5 levels to show its signal strength.

## 2. Beep Sound Alarm

- 2.1. Beep sound has 4 levels for K and Ka Band based on its signal strength.
- 2.2. For laser alarm, unit always make the highest level (4 level ) beep sound.

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### ***Operation with Smart phone via Bluetooth***

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ODIN has a Bluetooth module in it so you can connect ODIN via Bluetooth to a smart phone and operate it with the smart phone such as menu setting and alert display, etc.

## LIMITED WARRANTY

The manufacturer warrants your ODIN C-497 against all defects in materials and workmanship for a period of one(1) year from the date of the original purchase, subject to the following terms and conditions: The sole responsibility of the manufacturer under this Warranty is limited to either repair or, at the option of the manufacturer, replacement of the ODIN C-497. There are no expressed or implied warranties, including those of fitness for a particular purpose of merchantability, which extend beyond the face hereof. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

## SPECIFICATIONS

- Radar Receiver Type: Dual conversion superheterodyne
- Antenna Type: Linear polarized self-contained Antenna
- Device Type: Frequency discriminator
- Frequency of Operation
  - ☐ 10.525 GHz(X band)
  - ☐ 24.150 GHz(K band)
  - ☐ 33.400 – 36.000GHz(Ka super wide band)
- Laser Receiver Type: Pulsed laser signal receiver

- Operation Temperature: -20C --- +70C
- Storage Temperature: -30c --- +100C
- Power Requirement : 5V, 500mA negative ground

- END -