

849 NW STATE ROAD 45 NEWBERRY, FL 32669 USA

PH: 888.472.2424 OR

352.472.5500 FAX: 352.472.2030

EMAIL: lnfo@timcoengr.com
http://www.timcoengr.com

RF Exposure Evaluation Report

APPLICANT	UNIDEN AMERICA CORPORATION	
	3001 GATEWAY DRIVE	
	SUITE 130	
	IRVING TEXAS 75063 USA	
FCC ID	AMWUT416	
IC	513C-UT416	
MODEL NUMBER	BEAR TRACKER 885	
PRODUCT DESCRIPTION	CB RADIO WITH SCANNING RECEIVER	
STANDARD APPLIED	CFR 47 Part 2.1091	
PREPARED BY	Cory Leverett	

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and meets the requirements.

The attached report shall not be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.



GENERAL REMARKS

Attestations

This equipment has been evaluated in accordance with the standards identified in this report. To the best of my knowledge and belief, these evaluations were performed using the procedures described in this report.

I attest that the necessary evaluations were made, under my supervision, at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669



Authorized Signatory Name:

Cory Leverett

Engineering Project Manager

Date: April 17, 2017

Applicant: UNIDEN AMERICA CORPORATION

FCC ID: AMWUT416 IC: 513C-UT416

Report: 422AUT17RF Exp MPE Rpt



RF Exposure Requirements

General information

Device type: CB RADIO WITH SCANNING RECEIVER

Antenna

The manufacturer does not specify an antenna, but a typical antenna has a gain of 0 dBi.

Configuration	Antenna p/n	Type	Max. Gain (dBi)
Fixed mounted	Any	Whip	3 dBi

Operating configuration and exposure conditions:

The conducted output power is shown in the table below. Typical use qualifies for a maximum duty cycle factor of 100%.

MPE Calculation:

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power density: $P_d(mW/cm^2) = \frac{E^2}{3770}$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1.

Applicant: UNIDEN AMERICA CORPORATION

FCC ID: AMWUT416 IC: 513C-UT416

Report: 422AUT17RF Exp MPE Rpt



Minimum Separation Distance for Mobile or Fixed Devices General Population/Uncontrolled Exposure

Insert values in yellow highlighted boxes to determine Minimum Separation Distance 4 W 4000 mW Max Power equals Max Power **100** % **Duty Cycle** equals **Duty Factor** 1 numeric 3 dBi 1.995262 numeric Antenna Gain equals Gain numeric 0 dB Coax Loss Gain - Coax Los 1.995262 numeric 0.2 mW/cm² \leftarrow **Power Density** Enter power Density from the chart to the right Rule Part 1.1310, Table 1 (B) 27 MHz Frequency rang Power der Enter this value Frequency mW/cm² mW/cm² MHz 0.3-1.34 100 100 $180/f^{2}$ 1.34-30 0.2 30-300 0.2 0.2 300-1,500 f/1500 0.0 1,500-100,000

f = frequency in MHz

Minimum Separation Distance	56 cm	0.56 m
-----------------------------	-------	--------

Minimum Seperation in Inches 22.16891 Inches

Applicant: UNIDEN AMERICA CORPORATION

FCC ID: AMWUT416 IC: 513C-UT416

Report: 422AUT17RF Exp MPE Rpt