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RF Exposure Evaluation Report

APPLICANT	FIPLEX COMMUNICATIONS INC.
	2101 NW 79th Ave. MIAMI FL 33122 USA
FCC ID	P3TDH437-R
MODEL NUMBER	DH437-R-DU
PRODUCT DESCRIPTION	UHF DIGITAL REMOTE UNIT
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Franklin Rose

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.

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:

Franklin Rose, Engineering Project Manager

Date: 02/27/2018

RF Exposure Requirements

General information

Device type: UHF DIGITAL REMOTE UNIT

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	omni	0

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:

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

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.1310, Table 1.

Minimum Separation Distance for Mobile or Fixed Devices General Population/Uncontrolled Exposure						
Insert values in yellow highlighted boxes to determine Minimum Separation Distance						
Max Power	4.55	W	*equals*	Max Power	4550	mW
Duty Cycle	100	%	*equals*	Duty Factor	1	numeric
Antenna Gain	0	dBi	*equals*	Gain numeric	1	numeric
Coax Loss	0	dB		Gain - Coax Los	1	numeric
Power Density	0.3	mW/cm^2				
Enter power Density from the chart to the right				**Rule Part 1.1310, Table 1 (B)**		
Frequency	485	MHz		**Frequency rang**	**Power de**	**Enter this value**
				MHz	**mW/cm^2**	**mW/cm^2**
				0.3-1.34	100	**100**
				1.34-30	$180/f^2$	**0.0**
				30-300	0.2	**0.2**
				300-1,500	f/1500	**0.3**
				1,500-100,000	1	**1**
				f = frequency in MHz		
Minimum Separation Distance		34.74083	cm			
Minimum Separation Distance				**35 cm**		**0.35 m**