NEA Spec

Ultrasound Detector
**WIFI, GPS, GPS Tracking,
Laser Pointing Function**

ANDROID

UD-10 *Ver. 2*

"The world first **android** based ultrasonic detection device"

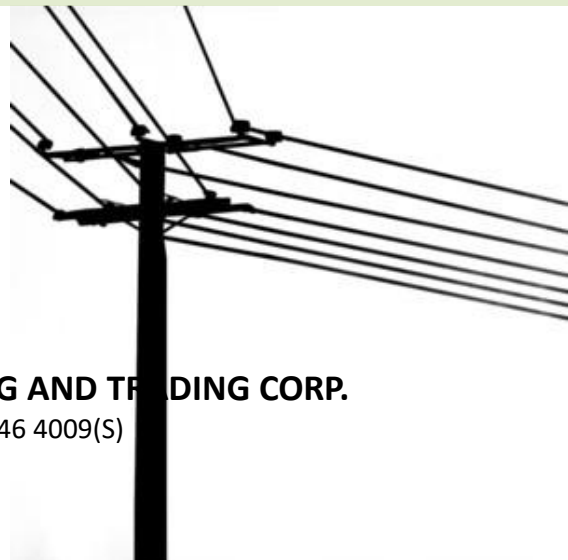Manufactured by **UDS**
WE DETECT ULTRASONIC

GEMT

EASY

UD-10 is the world first android based device in the ultrasonic detection area featuring the most popular & friendly user interface system

GPS tracking is available with coordinates and map

Capacitive touch screen makes the UD-10 easy to use

Less noise by upgraded receiver

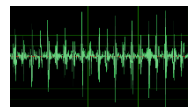**Powerful Portability** through lightweight

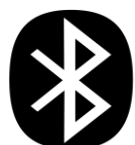**Auto report** creation with basic information

Wi-Fi connection is available

Long lasting battery by efficient operation

Sound Analysis Software

Wireless Recording Wireless connection between main body and receiver

Camera and Video in main body

Upgrade of UD – 10 *Ver. 2*

Add Laser Pointer Strong laser pointer can make precise detecting operation

Stronger, Lighter Body stronger body with side bumper and ultralight weight

Over X60 Zoom Digital Camera will be provided for Pole top shooting. 16Megapixel, Video Recording

Actual detection cases by Ultrasonic Detector

Pin Insulator Crack

COS Crack

Broken Pin

Suspension Insulator

Defective L.A

Flashover

Loose Connection

Loose Connection

Product Package

Main body / Wave form, GPS, temperature, humidity analysis	1 EA
Receiver / Ultrasound detection	1 EA
Tester / Receiver reception testing	1 EA
Adapter / Connects receiver to main body and extra battery pack	1 EA
Charger / One each for main body(1) & receiver/tester/extra battery pack(1)	2 EA
Hard case / Protects equipment	1 EA
Extra battery pack	1 EA
Temperature & Humidity Sensor	1 EA

Product Specification

OS	Android 4.2.2, Linux 3.4
CPU / GPU	Cortex A53 1.5G Hz X4 Quad core 64bit
RAM / System ROM	3G LPDDRII
Micro-SD Card	Micro SD card (T-FLASH card), max 64GB
USB	USB Type-c 24pin support OTG USB Type-c 24pin support RS232 X2
Wi-Fi	Dual-band (2.4GHz/5Ghz) single stream 802.11 a/b/g/n MAC/BB/RF
Display	7' inch IPS/AFFS; 720*1280 1000 cd/m2
Sensor	Open-type ultrasound sensor
	Reception : Max -55dB(40KHz)
	Frequency range : 20~100KHz
Detection Range	0~50DB (error±1DB) Up to 30m 1000 V or higher (no upper voltage limit)
Ultrasound Conversion	Heterodyne
Output	Stereo 16 Ω Earphone, 8 Ω Internal speaker
GPS	GPS; support A-GPS/EPO (5-10M)
Range of Main Measurements	Frequency 20~100KHz (unit: 1KHz)
	Sensitivity : 0~100dB (unit: 1dB)
	Volume 0~99%(unit: 1)
Dimensions(mm)	200*132*21mm
Weight	Main Body : 640g
	Detector: less than 0.4Kg
Functioning Temperature	In use : -10℃ ~ 55℃
	Storage : -25℃ ~ 70℃
Power Supply	Main Body : Built-in battery : Li-polymer(9.8 Ah ±0.2)
	Receiver : Built-in battery : Li-ion(0.9 Ah ±0.1)

Device development history

UDS
WE DETECT ULTRASONIC

Model / Function	U**	D***	UD-10	UD-10 Ver-2
Sound Detect	✓	✓	✓	✓
GPS	x	✓	✓	✓
GPS Tracking	x	x	✓	✓
WIFI	x	x	✓	✓
Android Based operation	x	x	✓	✓
Make Report w/o PC Transfer Data	x	x	✓	✓
Detecting w/o main body	x	x	✓	✓
Lasor Pointing Light Main Body	x	x	x	✓
Philippine Market Lunching	1st Generation (Year 2014)	2nd Generation (Year 2015~6)	3rd Generation (Year 2017)	From Oct. 2018

Comparison between Thermal Scanner and Ultrasound Detector for Overhead Line

Item	Thermal Scanner	Ultrasound Detector
Hot Weather	X	✓
Hot-spot Detection (Loose Connection)	✓	✓
Broken Insulator Cracked Insulator	X	✓
Moving Inspection	X	✓
Leakage	X	✓
Cost	✓	△
Cost Effectiveness	X	✓✓✓

We Supplied Ultrasound Detector (Nov. 2018)

CLIENT	ITEM	Remark
NEA	Ultrasound Detector	GPS
CEBECO I	Ultrasound Detector	
CEBECO II	Ultrasound Detector	
PELCO I	Ultrasound Detector	
ANTECO	Ultrasound Detector	
BENECO	Ultrasound Detector	
PALECO	Ultrasound Detector	
ZAMECO II	Ultrasound Detector	
BATELC II	Ultrasound Detector	
DASURECO	Ultrasound Detector	
CENECO	Ultrasound Detector	WIFI, GPS, GPS Tracking (UD-10)
PANELCO III	Ultrasound Detector	
CANORECO	Ultrasound Detector	
NEECO I	Ultrasound Detector	
ORMECO	Ultrasound Detector	
BATELEC I (4 Units)	Ultrasound Detector	
INEC	Ultrasound Detector	
FLECO	Ultrasound Detector	
CAPELCO	Ultrasound Detector	
ILECO III	Ultrasound Detector	
CASURECO III	Ultrasound Detector	
CENPELCO (2 Units)	Ultrasound Detector	
SOCOTECO I (3 Units)	Ultrasound Detector	
BATELEC II (3 Units)	Ultrasound Detector	**UD-10, Ver 2**