Inteligent Proximity Alert System

Based on UltraWidebandTechnology





























 $\ensuremath{\text{\#}}$ IPAS can be installed on any moving vehicles and machinaries.











▶ Mining Sites

▶ Ports





IPAS Product

Vehicle Tag(VT)

When PT enters Caution/Danger area of VT, Indicator sounds "Watch out" or "Danger" repeatedly.





Magnet Pad (Detachable)

Indicator (Distance Setting/Voice Alarm Device)

Installation	VT : Exterior / IND : Interior	
Interaction	PT, ZT, VT	
Range	1 ~ 30m(Caution/Danger Area Proximity Settable)	
Caution Range	Repeating "Watch Out" (Indicator)	
Danger Range	Repeating "Danger" (Indicator)	

Crossway ZT

When multiple vehicles are entering into intersection area simultaneously, this product detects vehicles tags and makes voice alert and a spot beam to give a danger alarm to drivers. (LED Spot : Red or Blue)



Installation		Attached on the ceiling of the intersection	
Interaction		VT	
	No Vehicle Approaching	○ Marked	
Alarm	1 Vehicle Approaching	✓ Marked, LED Spot (Flashing),"A vehicle is approaching. Watch Out"	
3	+2 Vehicles Approaching	× Marked, LED Spot (Flashing), "Another vehicle is approaching. Watch Out"	

Pedestrian Tag (PT)

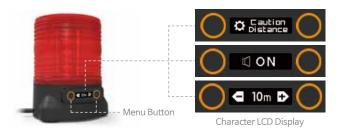
When PT enters Caution/Danger area, PT makes vibration and beep alarm. The pedestrian tag is configurable and rechargeable.



Installation Interaction		Attached on a helmet or an arm band	
		VT	
>	Caution Range	"Beep-Beep-" sound, Vibration	
Alarm	Danger Range	"Weeyo Weeyo", Vibration	
_	Low Battery	"Beebeep Beebeep" 5 times every 10 minutes.	

Flashlight ZT

Being installed in the blind area, this product signals sound alarm for anti-collision between adjacent vehicles and pedestrians.



Installation		On the wall	
Interaction		VT	
Range		1 ~ 30m	
Ala	Default	"Beeeep—", Flash	
larm	Option Speaker	Repeating "Watch Out"	



IPAS Toolkit (Setting Program)

IPAS Toolkit is a PC Program which allows setting and firmware update of IPAS products.



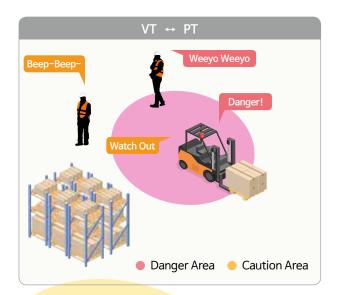


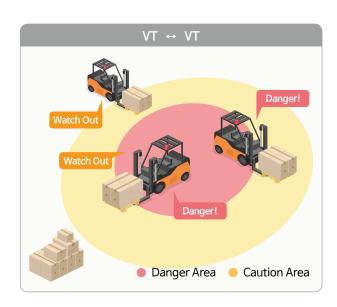


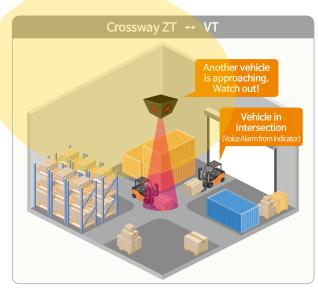
Available Product for Setting	Vehicle Tag, Indicator, Pedestrian Tag, Crossway Zone Tag, Flashlight Zone Tag, External Output Device
Available Product for Firmware Update	Vehicle Tag, Indicator, Pedestrian Tag, Crossway Zone Tag, Remote Control, Flashlight Zone Tag, Dummy Light, External Output Device, Amp

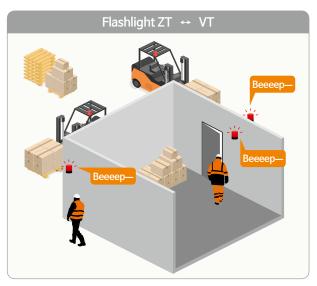


Alarm Type









Application Case



► Forklift Roof / VT



► Helmet / PT



▶ Inside Cabin / Indicator



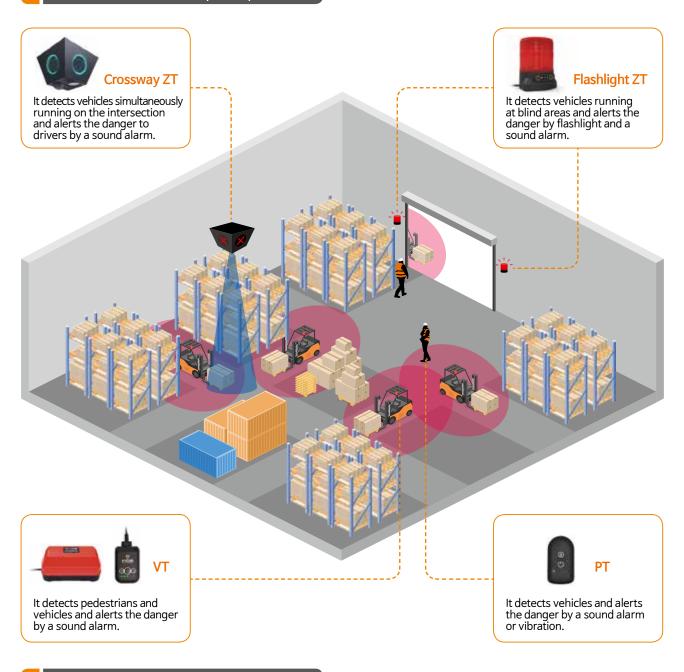
▶ Inside & Outside Office at Factory / Flashlight ZT



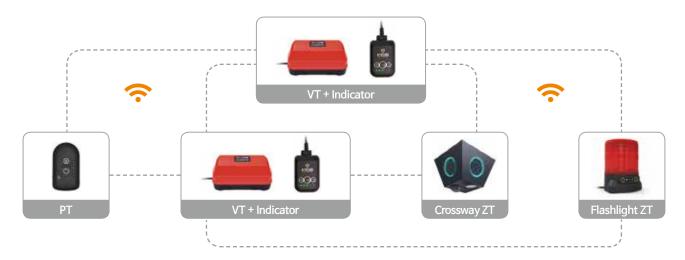
► Factory Indoor / Crossway ZT



Installation & Concept Map



Key Map for Operation and Sensing

















































Product Name	Vehigle Tag(VT)	Indicator	Pedestrian Tag (PT)	Crossway Zone Tag(ZT)	Flashlight Zone Tag (ZT)
Power	12/24VDC Input (9/32Vdc)	12/24VDC Input (9/32Vdc)	-	110/220VAC (90~264Vac)	110/220VAC (90~264Vac)
Current Consumption	300mA	500mA	-	-	500mA
Interface	CAN Bus 2.0	CAN Bus 2.0	-	-	CAN Bus 2.0
Sound Level / @	-	92dB / 0.1m	87dB / 0.1m	-	88dB / 1m
Battery	-	-	Li-Polymer 950mA	-	-
Operation Voltage	-	-	3.7V	-	-
Charge Inerface	-	-	Micro USB Type-B (5V/1A)	-	-
Charging Time	-	-	About 1h 30m	-	-
Charging Current	-	-	0.85mA	-	-
Operatoin Hour	-	-	6 days(8 hours/day)	-	-
Dimension	177.8×84.1×86mm	93×130.5×47.5mm	40×72×19.5mm	380×380×281.5mm	122.7×140.6×111.5mm
Weight	444g	207g	58.5g	5,500g	483.5g
Color	Red / Amber	-	Red / Amber	Red LED Spot / Blue LED Spot	Red / Amber
Mount Type	Magnet Mount Type, Cable Tie Connect Link	Screw Fix (or Adhesive Tape)	Helmet Clip(In-Box Item)	Fixture Bracket or Wire	Magnet Mount Type or Bracket Type
Proximity Measure Cycle	0.5sec	-	0.5sec	0.5sec	0.5sec
Operation Temp	-30 ~ 85°C	-30 ~ 85°C	-20 ~ 55°C	-30 ~ 85°C	-30 ~ 85°C
Storage Temp	-40 ~ 85°C	-40 ~ 85°C	-20 ~ 55°C	-40 ~ 85°C	-40 ~ 85°C
Enclosure	IP65	IP65	Waterproof	-	IP65

