CPR Real-time Feedback Solution

New Solution to CPR

Products Introduction

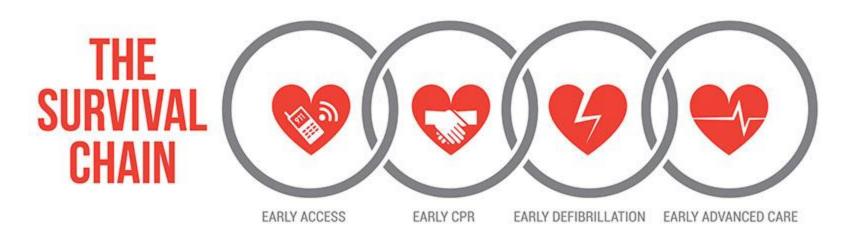




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What is CPR?

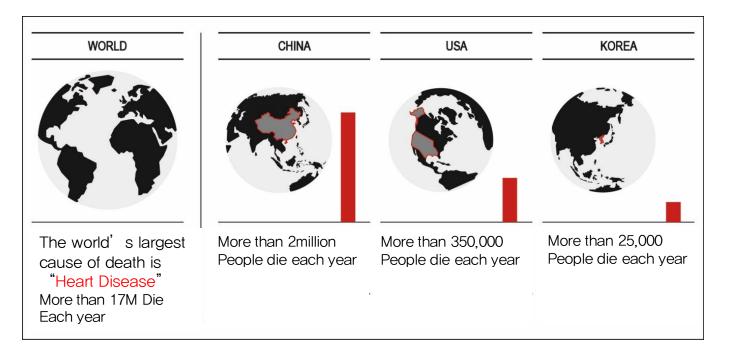
Cardio Pulmonary Resuscitation



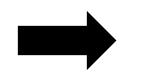
Compressing the chest of a heart attack patient 100 times per minute, 5~6cm

It is a principle to do until the patient is revived, but it is impossible to maintain accurate CPR due to the limitation of human physical stamina

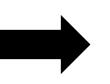
Necessity of CPR



Meat-based diet Lack of Exercise Population aging



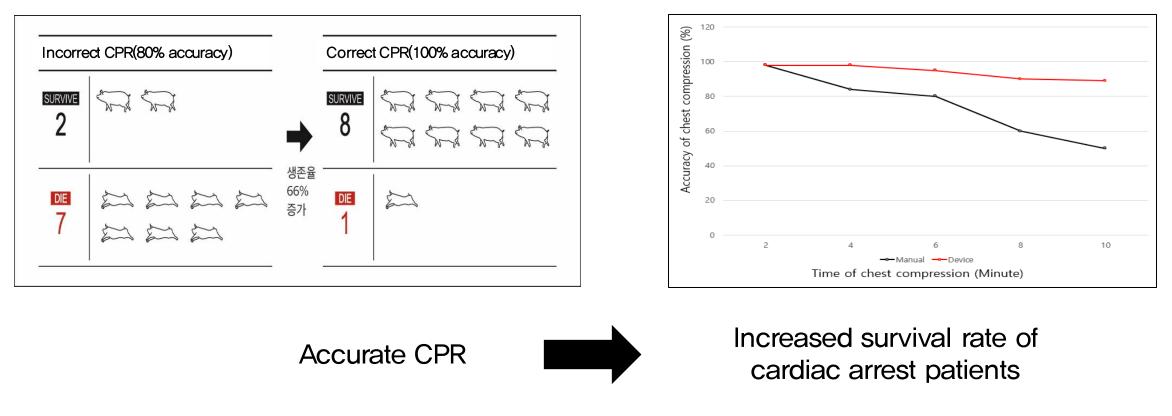
Increase of Cardiac arrest patients



Related market growth - CPR training

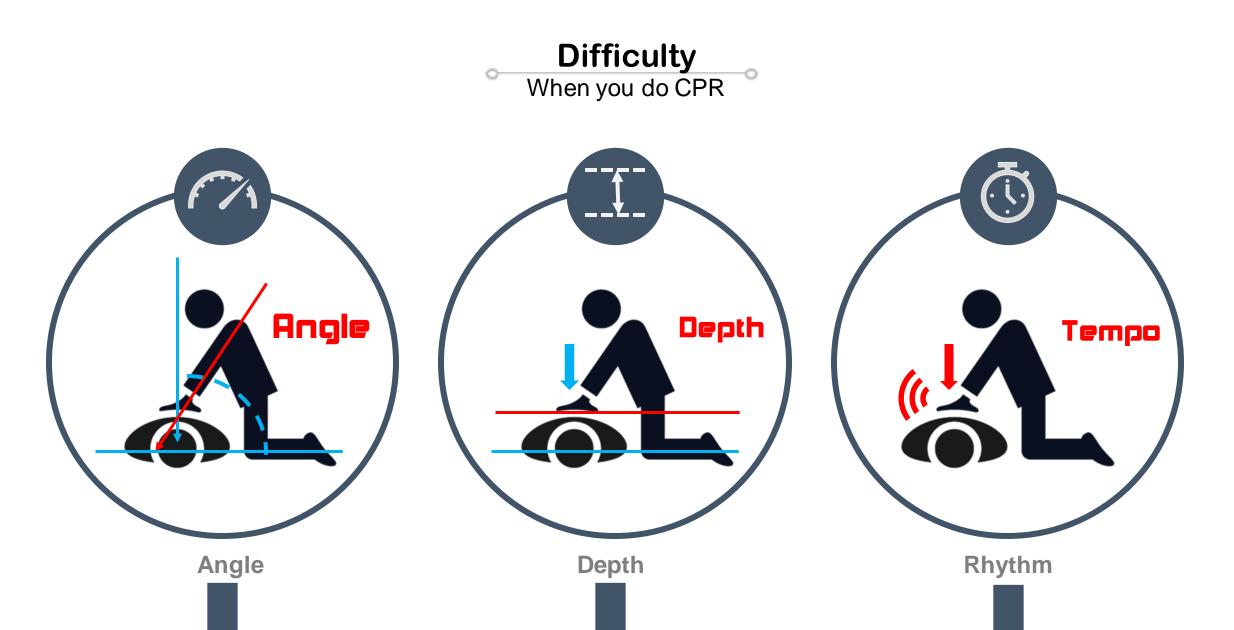
- Emergency Budget

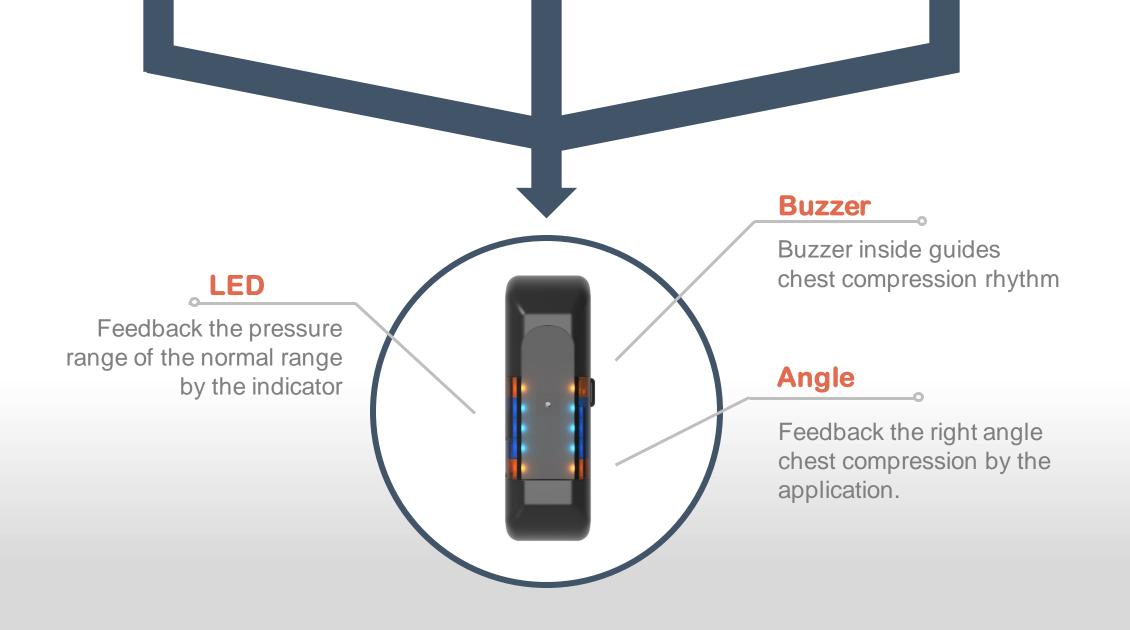
Importance of CPR & Needs of CPR Assistance Device



CPR Expert need CPR assistant device It is impossible for a person to sustain accurate CPR







What is **CPRBAND**?

New Solution to CPR

Products Introduction

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Product Group

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CPR Training Device

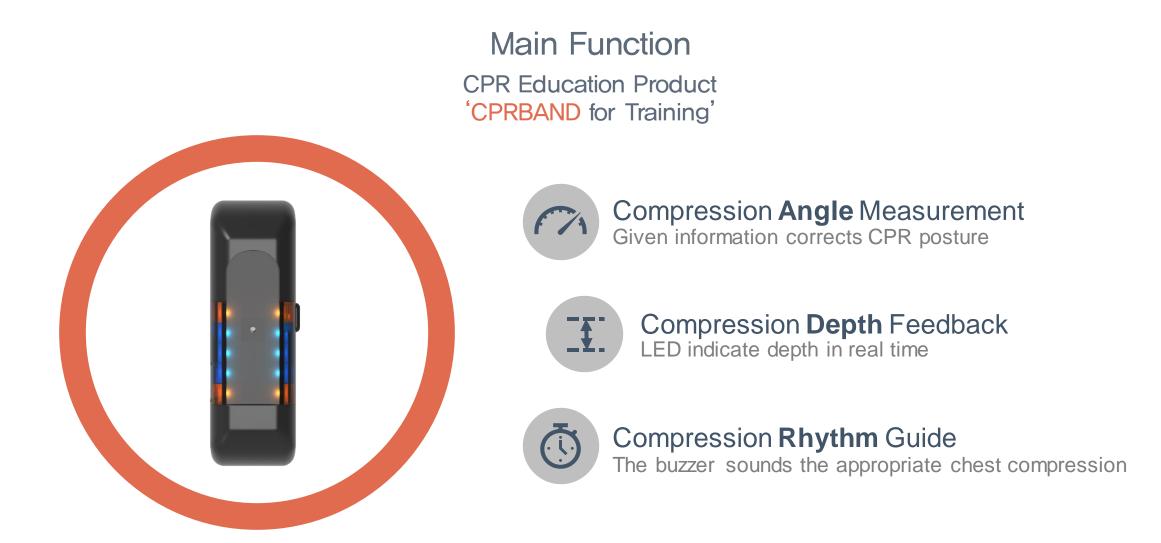
- For Manikin
- RF Certification(FCC)

CPR Assistant Device

- For Real Human
- Medical Certification(CE_MDR)

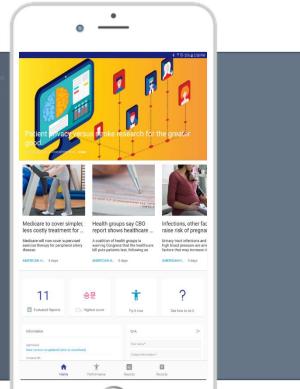
CPR Training Device

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Software







	CPR Assessment	Report		CHOOD TRAVELOW
CFI for 30 30 30 30 30 30 30 30 30 30	Device New	Interpretations of		w.1704
Effor String	Total Scare			
Difference of the second secon		\overline{A}		
	Date	Rights	Avragethra D	3 1.0
			,	
	EPR Count			
		26%	• Institutes	195
			Cares Officers	8
CR1/pool				
ER Typed 38				
38				
38			112. Ja	
38			17. Ig	
38 Julach is in the standard				
	CRI Speed			-14
Pressing Depth(Average) = 3.3 ps	s ERESpeed			-14
Preseng Beyti(Average) = 23 ye	CRI Spool			-24
	28 Speed			-2*

APPLICATION

CPR report

- CPR time
- Chest Compression depth
- Chest Compression rate
- Chest Compression axis
- Chest Compression graph
- Report transmission function



CPR Training Device

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Main Function Professional CPR Training Device 'CPRBAND for Training All in One'



Compression Angle Measurement Given information corrects CPR posture



Compression Depth Feedback LED indicate depth in real time



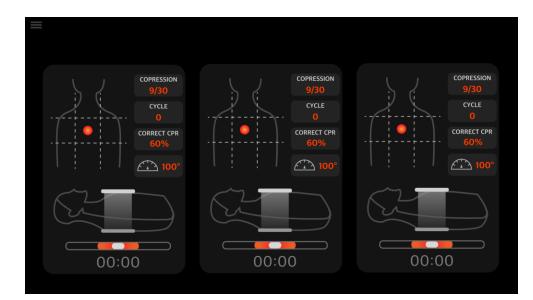
Compression Rhythm Guide

The buzzer sounds the appropriate chest compression

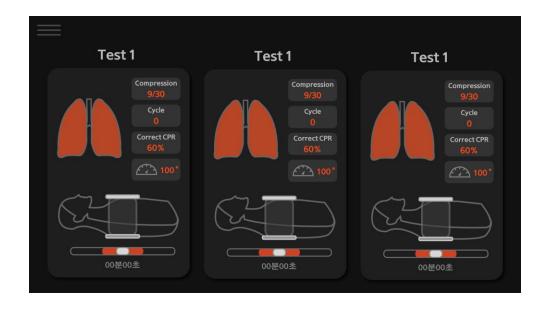
Software

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CPR Training Device – CBT AIO



		Location
Chest Compression	-	Depth
	-	Angle
	-	Rhythm Release
	-	Release
	-	Hand-off Time
	[–	Time



Respiration

- Insufficient Volume
- Correct Volume
- Over Volume



Software

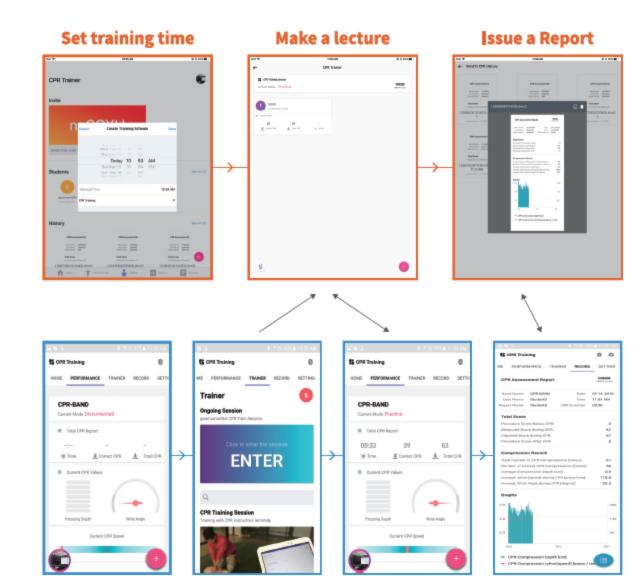
Distance Education

OTrainer Application

- Instructor-specific code issuance
- Set lecture time
- Open a remote lecture
- Concurrent access to more than 20 students
- Practice and evaluation
- Online Feedback(Voice, Text)
- Collect and publish student report
- Simultaneous training anywhere in the World

C Trainee Application

- Increased stability with1 by 1 connection
- Educational Alarms with Instructor follow
- CPR Feedback through reports



CPR Band Connect and lecture Enter

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Specification

Module

- Dimension: 45x19x8 mm
- Weight: 11.0g
- Battery: 100mAh
- Operating condition
- Temperature: 0~40°C
- Humidity: 0~95%
- Atmospheric pressure: 1,014~617 mbar

Band

- Dimension: 247x15x9 mm
- Weight: 20.4g



세부 사항

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Specification

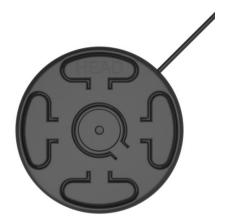
AIO Module

- Dimension : 68x66x52 mm
- Weight: 67.7g
- Battery: AAA x 4EA
 Operating Condition
- Temperature: -18~55°C
- Humidity: 0~95%
- Atmosphere Pressure: 1,014~617 mbar

AIO Pad

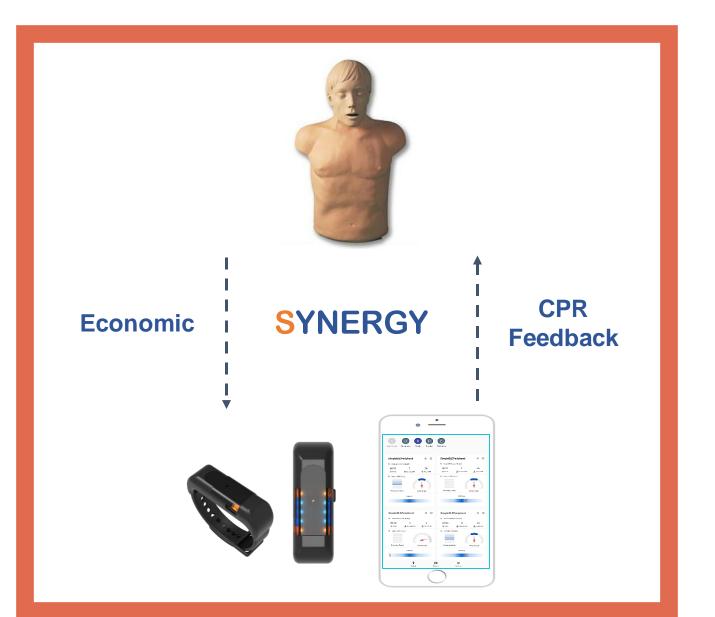
- Dimension: 110x110x9.2 mm
- Weight: 42g





Merit1





Compatibility

CPRBAND can improve the quality of education in any mannequin.

This means that you do not have to replace your existing CPR mannequin.

Any compressible object other than mannequin can be used.

The advantage of wearing on the wrist.





Chest Compression Axis

It is the only product that accurately measures the chest pressure angle.

It can now make more accurate CPR training.

It can check the flexion of the elbow as well as the compression axis.

It can see the overall accuracy of CPR postures.





Remote Education

Free support for distance education and training systems with video conferencing

There is no longer any need to train trainees in one place

You can receive real-time training and feedback from experts wherever CREDO's equipment is installed

Product Composition



- 1 CPRBAND for Training
- 1 Charging Cable
- 1 Manual

Premium set



- 6 CPRBAND for Training
- 1 Charging Bag
- 1 Manual

Comparison of similar training device

Comparison Table

F	Product Picture				
F	Product Name	QCPR Resusci Anne	Brayden Pro	HeartiSense	CPRBAND for Training
	Manufacture	Laerdal	Innosonian	I.M.LAB	CREDO
Usir	ng Existed Manikin	Х	Х	0	0
	Display Compression Level	Х	0	Х	0
Function	Rhythm Alarm	0	0	0	0
	Axis Checking	Х	Х	Х	0
Difference	CPR Report	0	0	0	0
	Connecting Quantity	1~6	1~6	1~6	1~50
	Ventilation Check	0	0	0	х
	S/W Accessibility	Separate Purchase	Free	Partial paid	Free
	사용 센서	Infrared, Compression	Infrared, Compression	Compression	Acceleration, Gyro
	가격	5,500 USD	900 USD	300 USD	200 USD

CPR Assistant Device

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CPR Assistant Device - CPRBAND



Compression Depth Feedback LED provide depth accuracy in real time



Compression Rhythm Guide Buzzer provide correct tempo guide

LED

Compression Axis Check Provide quantitative posture Information by Blue-tooth

Feedback the pressure range by the LED indicator

Buzzer

Buzzer inside guides chest compression rhythm

Angle

Feedback the right angle chest compression by the application.

AII IN ONE! CPRBAND

#CREDO

CPR Assistant Device - CPRBAND



APPLICATION

CPR report

- CPR time
- Chest Compression depth
- Chest Compression rate
- Chest Compression axis
- Chest Compression graph
- Report transmission function

Other Function

- Time
- Pedometer
- Calorie burned check
- Movement distance measurement
- Check the drug injection time



Specification

Module

- Dimension: 45x19x8 mm
- Weight: 11.0g
- Battery: 100mAh
- Operating condition
- Temperature: 0~40°C
- Humidity: 0~95%
- Atmospheric pressure: 1,014~617 mbar

Band

- Dimension: 247x15x9 mm
- Weight: 20.4g



Produ	ct Picture		Ĩ	
Model Name		CPRmeter2	CPR-1100	CPRBAND
Manufacturer		Laerdal(Norway)	Nihon Kohden(Japan)	CREDO(Republic of Korea)
Medical Device(For Human)		0	0	0
Functional Difference	Compression Depth	0	Х	0
	Rhythm Guide	0	х	0
	Compression Axis	Х	Х	0
	CPR Data Save	O (SD card)	O (Use with Defibrillator)	0
	Reusable Battery	Х	Х	0
	Independent Indicator	0	0	0
	Wireless Communication	0	Х	0
S	Sensor	Acceleration, Compression	Acceleration, Compression	Acceleration, Gyro
How to Use		Put it on the patient's chest and press it		Worn on the wrist and use it
Consumer Price		695 USD	660 USD	650 USD

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Intellectual Property

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IP

Patent

- KOR: Registration(2건) Application(4건)
- USA: Application
- EUR: Application
- CHN: Application
- JPN: To be applied

Trademark(CPRBAND)

- KOR: Registration
- USA: Registration
- EUR: Application
- CHN: Registration
- JPN: Registration

Certification

CPRBAND for Training **O**

- KOR: KC complete
- USA: FCC complete
- EUR: CE complete
- CAN: IC complete
- JPN: JPMIC complete





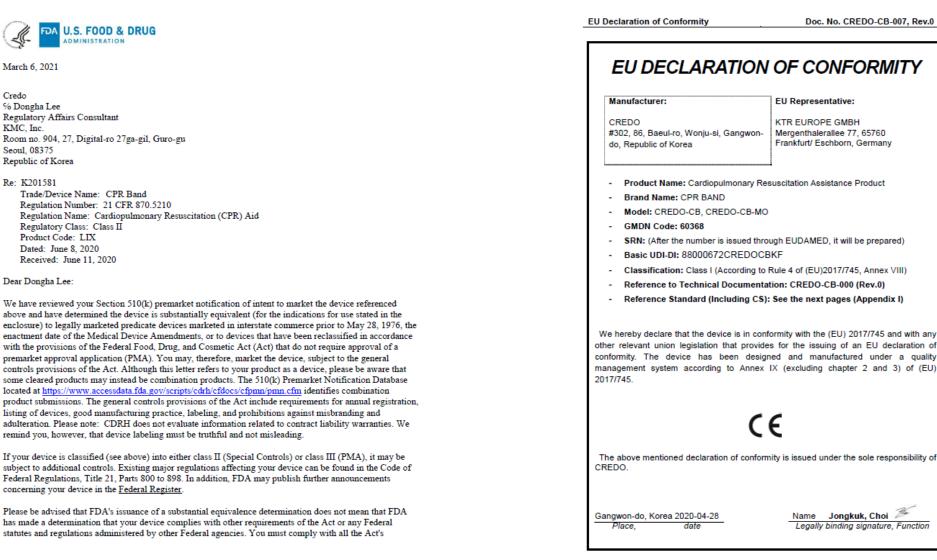
- KOR: MFDS(Class 2)
- USA: FDA 510k(Class II)
- EUR: CE MDR(Class I)
- Quality: GMP, ISO 13485
- Environment: RoHS
- Safety: IEC 60601





Certification

Credo



U.S. Food & Drug Administration 10903 New Hampshire Avenue Silver Spring, MD 20993 www.fda.gov

FDA 510(k)

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CE MDR DOC

CPR Market

New Solution to CPR

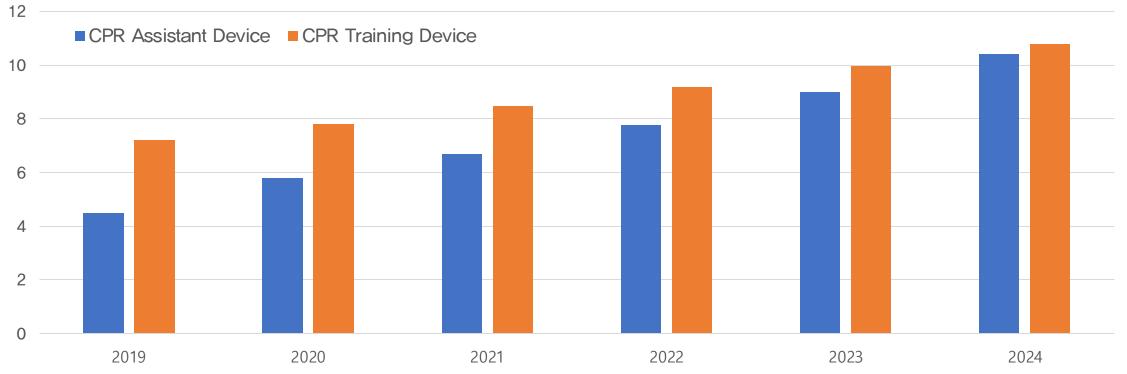
Product Introduction

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World wide CPR Market Size

Unit: Billion USD



Automatic Electronic Defibrillator Market(CPR Assistant Device) 4.47 Billion USD Now, KOR 35k, USA 2.4m Supply 15.8% annual growth until 2025 Reference: Transparency Research Market

CPR Training Market Size 7.2 Billion USD 8.43% annual growth until 2022 Reference: TechNavio

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Business Model

CPR Training Device



Fire Department



School, University

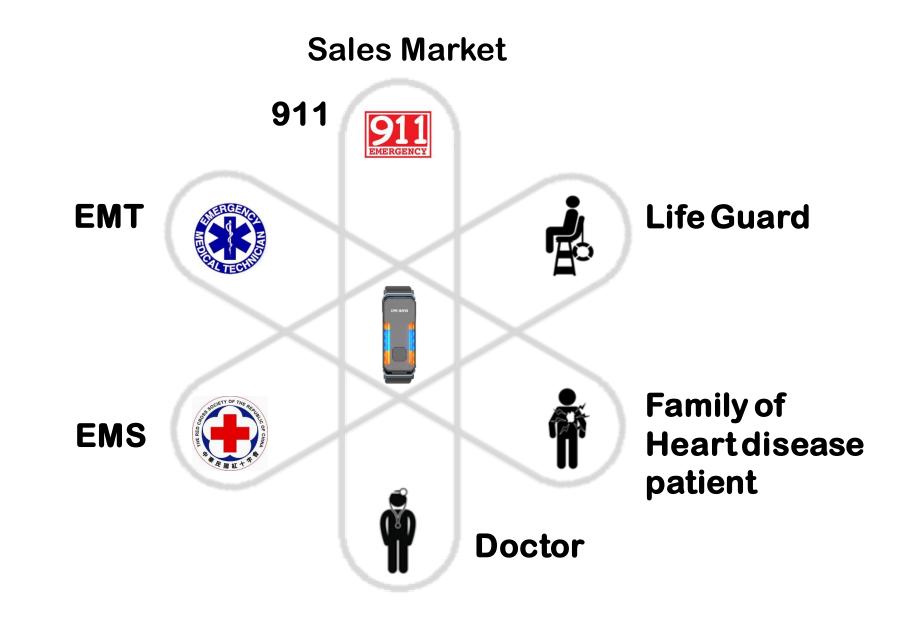


Overseas Distributor

- US, Australia, Italy, Ireland, Indonesia, Singapore, Germany, Thailand

User of CPR Assistant Device





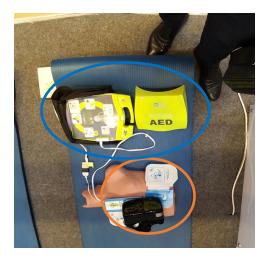
Market Trend

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CPR Trend of Emergency Academy(ICEM 2019)



Philips



Zoll





CPR Feedback DeviceAED or Defibrillator

Nihon Kohden

- Chest Compression is more important than Ventilation
- Non-expert do not ventilation Only Chest Compression
- CPR feedback device is mandatory at adult CPR education at 2019(AHA).

CPRBAND is the most focused product On Chest Compression

Next Item

New Solution to CPR

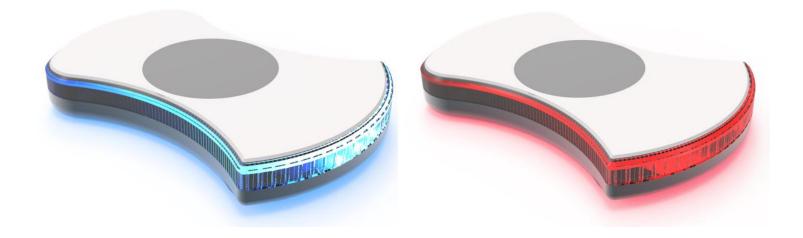
Product Introduction

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CPR Feedback Device – CPRPAD

- CREDO have technology of Small and accurate CPR Feedback device
- Can provide various methods(Ex. OEM)
- Can make various product(Reusable, Disposable)
- Can make various function(for Training, for Assistance)
- Can provide various communication(Wire, Wireless)



Sometimes, We have to be 'HERO' for our loved ones. CPRBAND will help you.

SCREDO

#302, PelexGold, 86, Baeul-ro, Wonju-si, Gangwon-do, Republic of Korea, 26465 Call. +82-33-766-8901 Fax. +82-33-766-8902 Mail. credo@credo-ltd.com H.P. www.credo-ltd.com