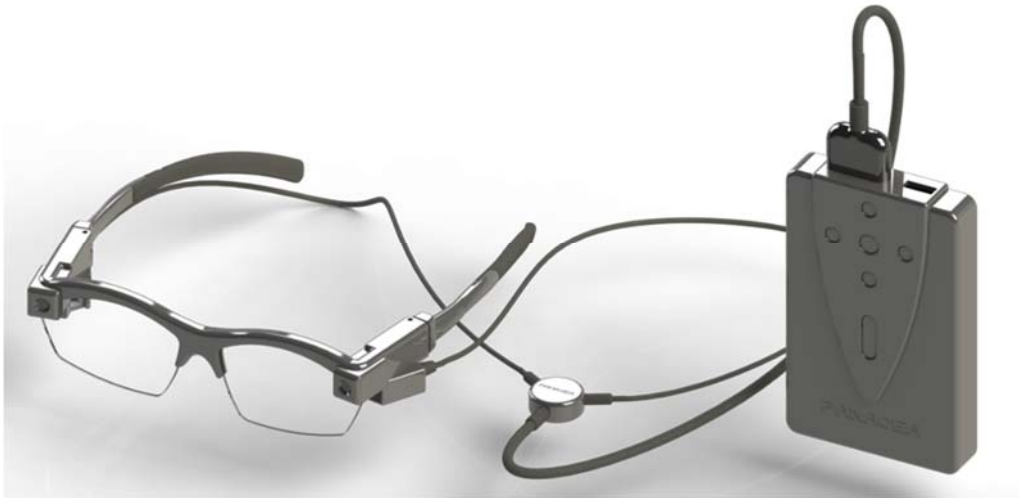


GinGer

Beyond outlook to ER(Expanded Reality)!

**GIN
GER**



ER-90

The GinGer is for augmented reality (AR), mixed reality (MR), and holographic reality (HR). It is the ultimate expanded reality device that is designed thin and light by optimizing optical system using HOE (Hologram Optical Element), Scan MEMS and laser point light source. The optical configuration using the HOE is designed to allow clear images to be viewed even in bright outdoor environments, so that images can be projected outdoors, and the lightly structured image engine is designed to be comfortable to wear for a long time.

The device consists of a headset and a terminal. The headset and the terminal are connected by a very thin cable.

Terminal is equipped with SOM (System on Module) to operate Android or Windows. Compatible with existing applications and operating systems installed and operated.

The ergonomically designed headset is designed to be comfortable to wear and is robust with human-friendly materials with less risk of deformation and damage.

※ **GinGer (Zinger) is a derivative of Zinger and has a lexical meaning of "to surprise people", which means a dramatic change of product.**

Features

- Super Lightweight and very thin optical configuration
- Very high contrast ratio, that is Watch clear images even in bright outdoor environments
- Full color wide and large image display
- Automatic illumination control according to external environment
- Expend reality-based devices that basically implement augmented reality and mixed reality
- Free focus
- 3D overlap is more than 80%



Specification

- Display Engine

Item	Unit	Value
Display		3D See-Through Display
Engine Volume	cc/each	≤5
Resolution	pixels/each	≥ HD 720P
Brightness	nit/each	≥ 1,000
Throw Ratio		≤1.1:1 (Transparency >85%)
Field of View (Diagonal)	degree/each	≥70
Image focal plane		Infinity
Eye box (diameter)	mm	> 4
Aspect Ratio		16:9
3D Overlap	%	> 80

- Terminal

Item	Unit	Value
CPU	GHz	≥1.5
Storage	GB	128
Memory (RAM)	GB	4
Communication	Bluetooth 4.0	
	802.11n Wi-Fi capability	

- Depth Camera

Item	Unit	Value
Camera	3D time-of-flight depth camera	
Resolution:	pixels	320x240 (QVGA)
Field of View (H x V x D)	degrees	74 x 58 x 87
Frame Rate:	fps	30

- Color Camera

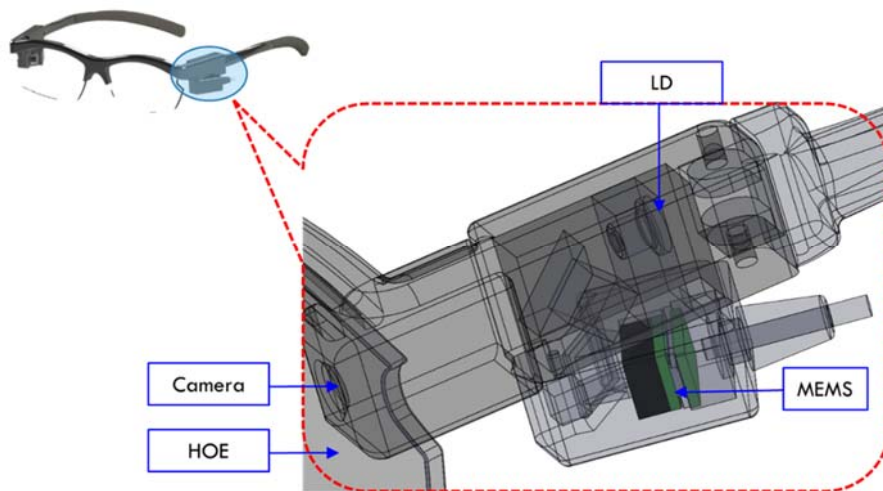
Item	Unit	Value
Resolution	pixels	1280x720 (MJPEG)
Field of View (H x V x D)	degrees	63.2 x 49.3 x 75.2
Frame Rate	fps	30

- Head Tracking

Item	Unit	Value
Tracking angle	360-degree tracking	
Axis	9-axis Inertial Measurement Unit	
Accelerometer (Linear acceleration)	g	±16
Gyroscope (Angular rate)	dps	±2000
Compass (Gauss magnetic)	Micro-Tesla	±16
Location		GPS

- Audio

Item	Unit	Value
SPK	Dolby 3D audio (Bone conduction SPK)	
Microphones	Two built-in electret MEMS microphones	



All pictures and information contained in this document are the copyright of PANACEA Co., Ltd. and will be punished by law if used without permission.