

# eyerobo<sup>®</sup> vs



**INTELLIGENT  
SOLUTION FOR  
VISION SCREENING**



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XilinxFPGA Smart Chip  
No CPU Computing Platform Limitation  
Strong Operation, Wise Choice



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# ABOUT US



eyerobo is a high-tech company , dedicating in intelligent devices and big data management in eye health. We are committed to promoting the integration of diagnostic devices and technology in eye health. We provide A.I. solution to future eye health through the equipment + platform mode. We provide globalized and visualized management platform with the evolving and merging in our products, technology, and data.

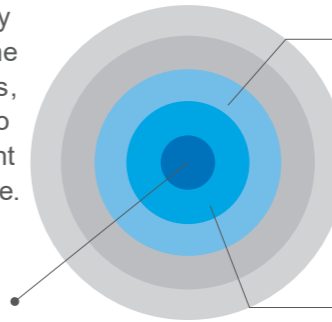
Our headquarter office locates in Shenyang city, China, with more than 4,000 square meters space and over 40 key technical personnel from China and Italy. We have actively engaged in social welfare undertakings since establishing. We have reached long-term partnerships with a number of NGOs around the world. The cutting-edge technology could be served to everyone, a better visual experience could be received by people in every corner around the world.

## Partners and media coverage



# EYE HEALTH

More than 80% information from outside is received by vision. However, eyes are one of the most fragile organs, especially from newborn to adolescent. Visual impairment is a common disabling disease.



### Prevalence of Amblyopia: 3.5%

In China, the prevalence of amblyopia among 6-14 children is 3.5%. Around the world, every one in 50 children is suffering from amblyopia.

### Prevalence of Congenital Esotropia: 1-2%

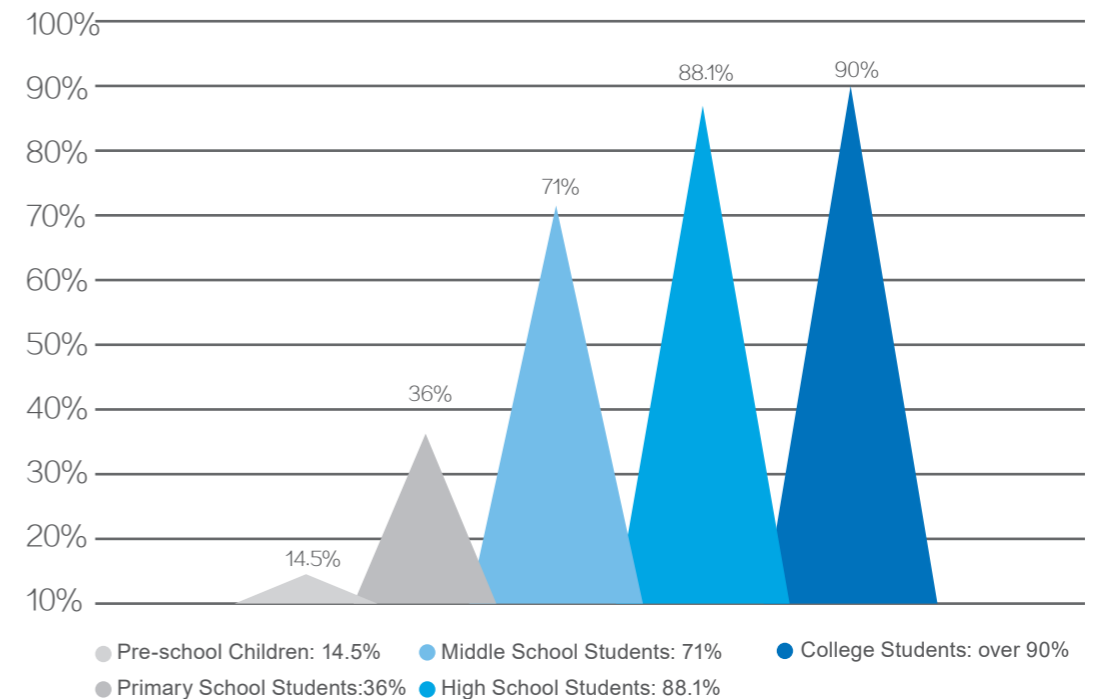
Apart from affecting appearance, congenital esotropia might lead to amblyopia and loss of visual function in both or single eyes.

### High Myopia (over 600°)

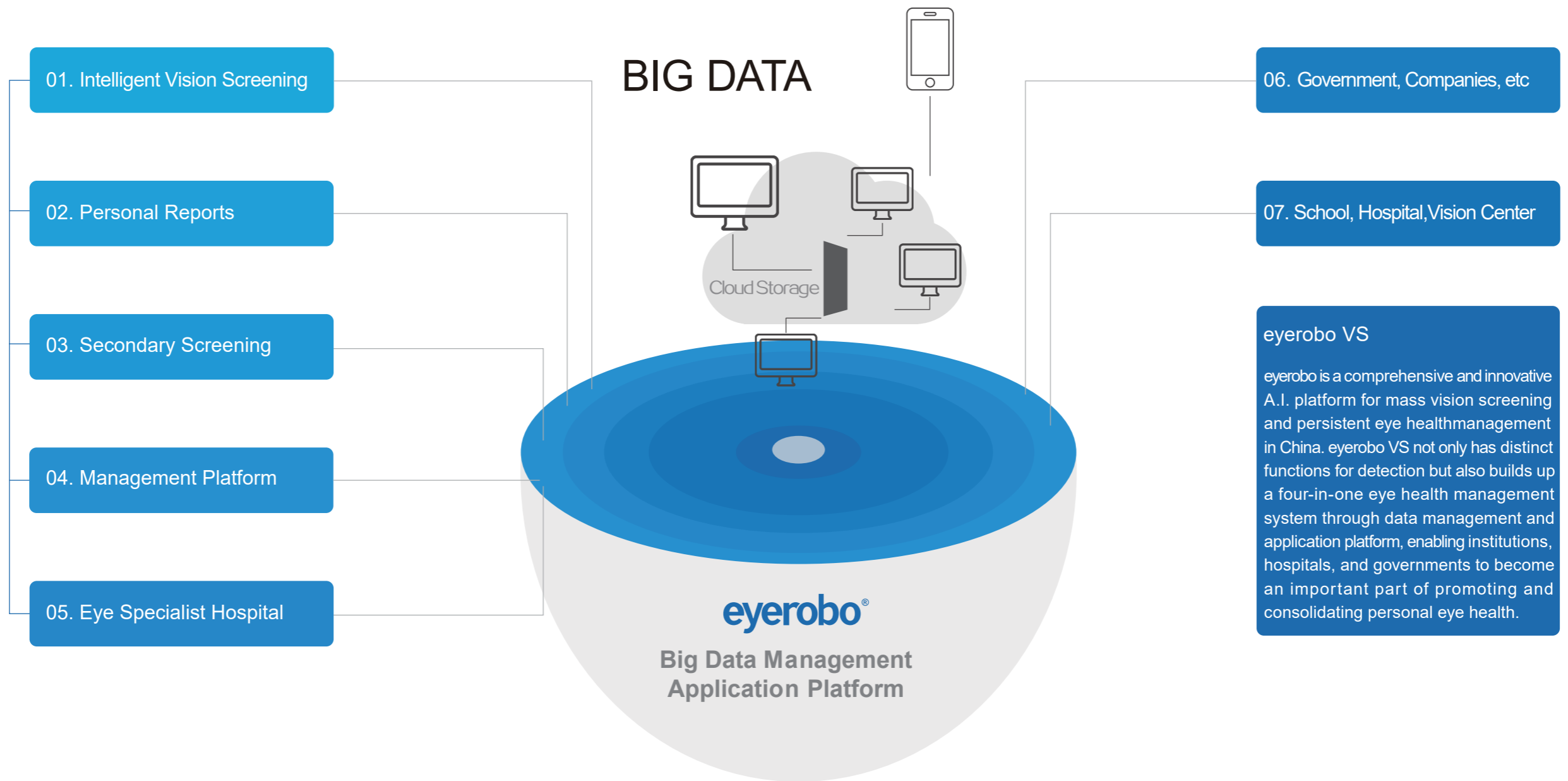
The prevalence of high myopia among children and adolescents in China is 6.69%-38.4%.

If no intervention has been done before 6 to children with amblyopia or strabismus, irretrievable visual impairments would be caused. High myopia could leads to permanent vision loss or blindness, which is the second leading cause of blindness in China. Early diagnosis and early treatment is the most effective solution to control and avoid vision loss.

## In 2018, the overall myopia rate among children and adolescents was 53.6 %



# SOLUTION SYSTEM



# FUNCTIONS



# An Intelligent Vision Screening Solution

01. Disruptive Design 02. The eyerobo tube serves as a darkroom for the device and allows the exam to be performed in any light condition 03. Fixed remote detection to avoid interference by mechanical considerations 04. Binocular objective refractometer, simultaneous detection 05. Full scenario application



Simultaneous Binocular Measurement



Automatic Detection



Eye Health File Management



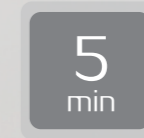
Big Data Management Platform



To Measure



To Control Remotely



To Learn



To Transport

Screening For



Myopia



Hyperopia



Astigmatism



Tropias



Anisocoria



Pupil Size



DS



DC



Pupil Distance



AXIS

# FUNCTIONS



## [Consulting and Diagnosis]

Flexible Disassembly  
Main engine can be easily disassembled, independently used.



## [Infants and Children Friendly]

The cartoon masks are more attractive and funny for children under 6.



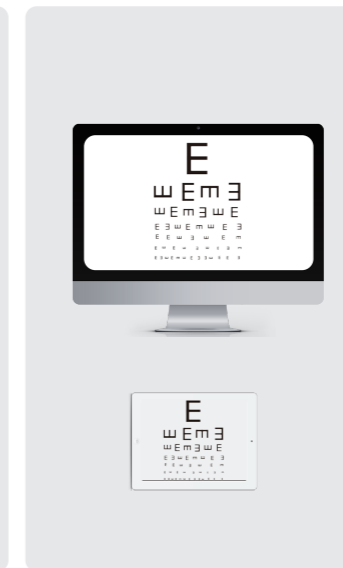
## [Buzzing and Light]

For babies and toddlers, sound and light also can draw their attentions.

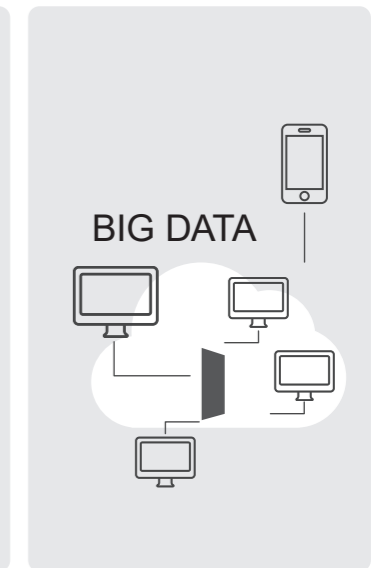
# TECHNICAL INFORMATION



eyerobo VS  
Standard Edition



Smart  
Ophthalmic Chart

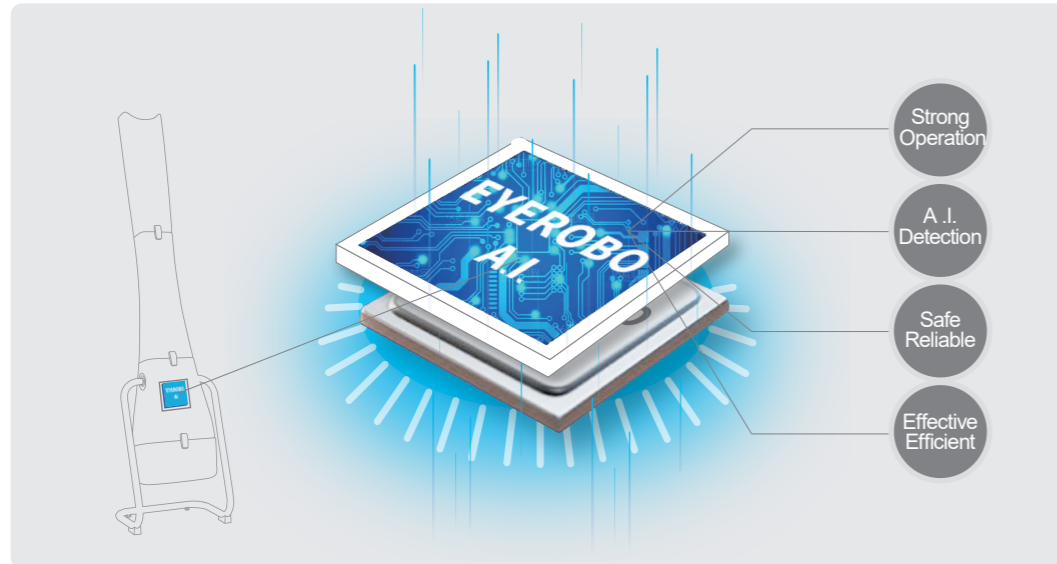


Big Data  
Management Platform

## eyerobo VS Technical Information

·Operating mode	Binocular/monocular	·Working Hours	>6hrs
·Sphere range	-7.50D~+7.50D,±0.25D	·Touch screen	Android application for Wi-Fi tablets
·Cylinder range	0.00~3.00D,±0.25D	·Battery Charge	Rechargeable battery pack (3.7V3400mAh)
·Cylinder axis	1 -180, ±5	·Size	130cmX32cmX21cm
·Pupil size	4-9mm,+0.1mm	·Weight	3.8Kg
·Pupil distance	35-80mm, ±1mm	·Support the QR code scanning, face recognition and other information entry	
·Refraction Measurement	Automatic	·Support batch data import, port opening, and data management	
·Data interface	Wireless printing		

# SMART CHIP



# APPLICABLE SENARIO

<p><b>School, Kindergarten</b> To establish eye health files and prevention and control system.</p>	<p><b>Pediatric Clinic, MCH Hospital</b> To provide early screening for congenital eye diseases.</p>	<p><b>Vision Center, Optical Shop</b> To improving efficiency, collecting first-hand user data.</p>	<p><b>Government, Public Welfare</b> To enabling primary health care institutes to carry out eye health and chronic diseases screening.</p>
<p><b>Big Enterprises</b> To take care of employees' eye health care.</p>	<p><b>Service-oriented Enterprises</b> To promoting competitiveness of insurance companies, banks, automobile sales service shops, etc.</p>	<p><b>Nursing Institutions</b> To providing intelligent health solutions for elderly care.</p>	<p><b>Real-estate</b> To realize Smart Health Community.</p>

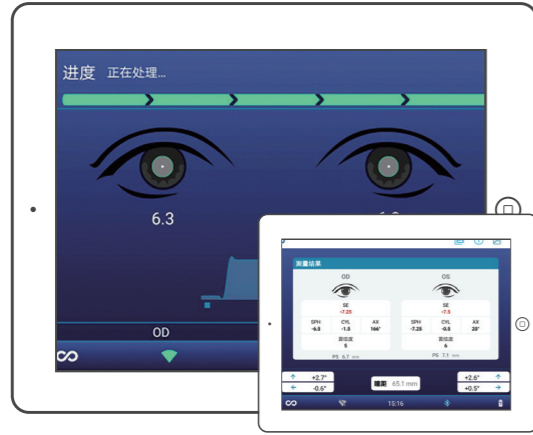
# PLATFORM FUNCTION



Behind vision screening, there is a professional big data management and an application platform.

<p><b>A.I. Screening and Common Diseases Detection System</b></p> <ol style="list-style-type: none"> <li>01. Early warning</li> <li>02. Records tracking</li> <li>03. Consulting and diagnosis</li> <li>04. Support data stream</li> </ol>	<p><b>Vision Screening and Filling System</b></p> <ol style="list-style-type: none"> <li>01. Personal files</li> <li>02. Key data analysis</li> <li>03. Data rotation</li> </ol>	<p><b>Regional Management Platform</b></p> <ol style="list-style-type: none"> <li>01. Task management</li> <li>02. Screening files</li> <li>03. Early warning and control</li> <li>04. Health intervention</li> </ol>
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# OPERATING PAGE



## User

- Scan for measurement
- Data automatic error correction



## Client

- Personal results
- Index definition
- Multiple risks warning
- Health advice
- Online consultation



## Platform

- Big data management
- Screening filing

# USED IN

eyerobo VS has been widely used in more than 40 countries worldwide. We will provide an intelligent vision screening management solutions to more users around the world.

