

# **NEAER 2019**

# **Low Vision Wearables**

## **Key Focus Points**

Bob McGillivray, CLVT  
Director of Low Vision Services  
The Carroll Center For The Blind  
[bobmac@carroll.org](mailto:bobmac@carroll.org)

Scott V. Krug, President  
New England Low Vision  
and Blindness  
[Scott@NELowVision.com](mailto:Scott@NELowVision.com)

# Expectations vs. Reality

- **Expect Marketing & Word of Mouth!**
- **“Get Your Vision Back” / “Magic Glasses”**
- **Capabilities NOT equal to expectations**
- **Task-Specific and limited results**
- **Often does not solve multiple needs**
- **Right tool for job?**

# Considerations

- **Magnification**
- **Price**
- **Screen Size**
- **Field of View (FOV)**
- **Weight**

- **OCR / TTS**
- **Battery Life**
- **Turn ON time**
- **Heat**
- **Cosmetics**

# Applications / Benefits

- Distance, Near and Intermediate Tasks
- See Loved Ones, Watch TV, See Outdoors, Sporting Events, Plays, Theatre, Entertainment
- School: Classroom, White Board, Assemblies
- Work: Inspection, Arborist, Pharmacist, Child Care, Inventory, Meetings, PowerPoint
- Sheet Music, Shopping, Hobbies, Playing Cards, Bingo
- Reading, Computer Screen, Church, Travel

# Preview

	Product	Price	Mag	FOV	Weight	Boot Up	Battery	OCR	Warranty
1	<b>Acesight</b>	\$4,995	15x	45°	14.1oz	11s	4h	n/a	1yr
2	<b>eSight</b>	\$5,950	24x	37.5°	4.6oz	32s	2h	Yes	1yr
3	<b>IrisVision</b>	\$2,950	12x	70°	16.7oz	56s	4h	Yes	2yr
4	<b>Jordy</b>	\$2,500	30x	30°	8.0oz	13s	4h	n/a	2yr
5	<b>NuEyes e2</b>	\$2,795	18x	101°	11.4oz	34s	4h	Yes	1yr
6	<b>NuEyes Pro</b>	\$5,995	12x	30°	6.4oz	42s	2h	Yes	2yr
7	<b>Patriot Viewpoint</b>	\$2,995	20x	101°	18.2oz	22s	4h	Yes	1yr

# Acesight



**Price — \$4995**

**Mag — 15x**

**FOV — 45°**

**OCR — n/a**



# Acesight

- Open Architecture
- Fast High Refresh (no delay)
- High Resolution Imaging
- Outline/Edging Feature
- Head motion panning
- Wired Controller
- Case Study - Scott



# Acesight



# Acesight



# Acesight

**Wow! There is a pen!**



**At an exhibit booth, a white pen on a white table top was barely visible. Client switched on Outline mode, Acesight detected the pen and outlined it so that it could be seen.**

# eSight



**Price — \$5950**

**Mag — 24x**

**FOV — 37.5°**

**OCR — Yes**



# eSight

- Bioptic positioning (Visor)
- Need Pupillary Distance (PD)
- 4-5 Training Sessions
- Rx Available
- Head motion panning
- Save/retrieve images
- Focus selections
- Wired Controller
- Case Study - Bob



# The Carroll Center **New England Low Vision** and Blindness

FOR THE BLIND

*Bringing Hope Through Technology, Training & Care*

## eSight



# eSight (bioptic position)



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## eSight (bioptic mobility)



## eSight (at Hospital Internship)



# IrisVision



**Price — \$2950**

**Mag — 12x**

**FOV — 70°**

**OCR — n/a**



# IrisVision

- **Samsung VR Headset & Galaxy Smartphone**
- **Special software**
- **Wide Field of View (FOV)**
- **Central Vision Loss**
- **Closed architecture**
- **Voice Commands**
- **Bubble magnification**
- **Case Study - Bob**

Wireless Charging Pad

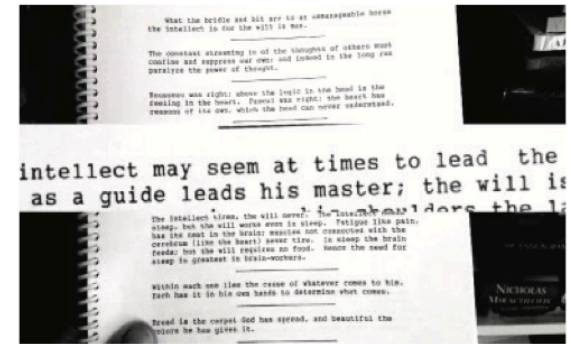


## IrisVision

### Scene Mode with Bubble



### Reading Line Mode



### Bioptic Mode

### RP (Retinitis Pigmentosa) Mode



Regular Scene



RP Mode



## IrisVision



# Pharmacist



- Diagnostic Equipment use
- Filling syringes
- Reading medication labels
- Expiration dates

# Forensic Technician



- Review evidence on smart phones, computers & electronic devices
- Copy (mirror) information to backup drives
- Much more than text and images
- Multiple locations

# Jordy



**Price — \$2,500**

**Mag — 30x**

**FOV — 30°**

**OCR — n/a**

# Jordy

- 4 or 8 hour battery
- Rx Available
- Docking station available
- HDMI input for TV
- Wired Controller
- Case Study - Bob



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## Jordy



# Jordy (former model)

## Turtle Rescue



## NuEyes e2



**Price — \$2,795**

**Mag — 18x**

**FOV — 101°**

**OCR — Yes**

# NuEyes e2

- NOT Repurposed Android Phone
- NOT in a VR holder
- Tech in Front display & Back cushion
- Balanced feel light weight
- Live TV & Movie Streaming
- Save/retrieve images
- Wireless Controller
- Case Study - Scott



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## NuEye e2



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## NuEyes e2



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## NuEyes e2



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## NuEyes e2

South TX Lighthouse f/t Blind



VIRTUAL REALITY GLASSES HELP BLIND 'SEE'

**3NEWS**

# NuEyes Pro



**Price — \$5,995**

**Mag — 10x/12x**

**FOV — 30°**

**OCR — Yes**

# NuEyes Pro

- **Cosmetics, Thin, Light Weight**
- **Rx Available**
- **Voice Commands**
- **Wireless Controller**
- **Built-in light**
- **Auxiliary 10hr Battery**
- **Best 20/100 or better**
- **Case Study - Scott**



# The Carroll Center **New England Low Vision** and Blindness

FOR THE BLIND

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## NuEyes Pro



# Patriot ViewPoint



**Price — \$2,995**

**Mag — 20x**

**FOV — 101°**

**OCR — Yes**

# Patriot ViewPoint

- Samsung VR Headset & Galaxy Smartphone
- Special software
- Wide Field of View (FOV)
- Central Vision Loss
- Closed architecture
- Voice Commands
- Case Study - Scott



## Patriot ViewPoint



# The Carroll Center **New England Low Vision** and Blindness

FOR THE BLIND

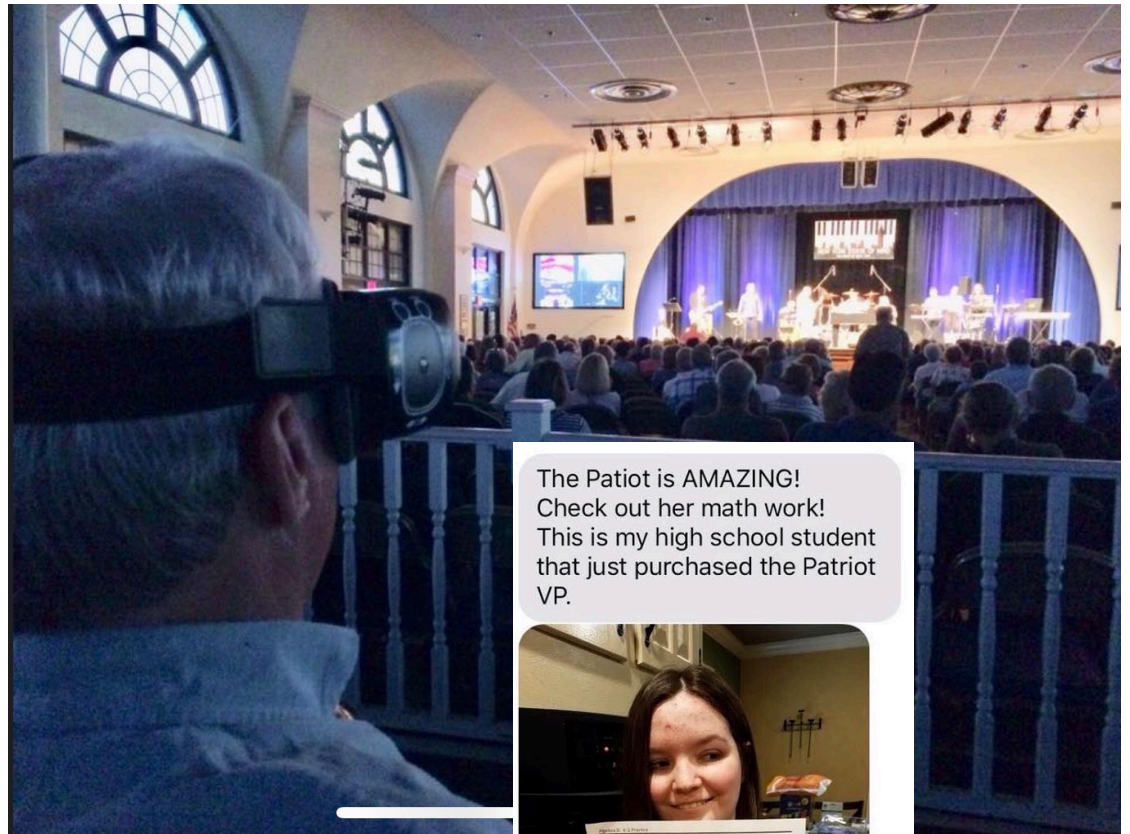
Bringing Hope Through Technology, Training & Care

## Patriot ViewPoint

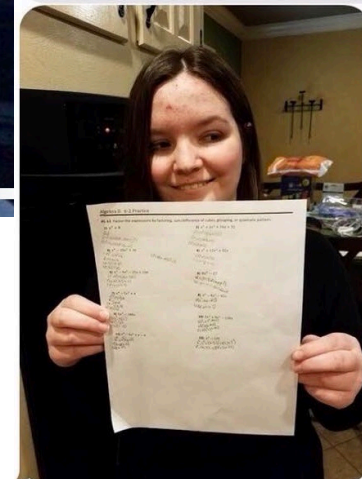
On July 14, 2018,  
I SAW my daughter get married!  
(With my Patriot ViewPoint wearable technology!)



I have been legally blind  
for over 50 years.  
The Patriot ViewPoint is  
a life-changing experience. I use it for watching concerts  
and TV, reading my computer screen, and reading music  
for my ukulele.



The Patriot is AMAZING!  
Check out her math work!  
This is my high school student  
that just purchased the Patriot  
VP.



# Assessments

- **Determine Visual Potential and Limitations**
- **Assess Responses to Low Vision Approaches**
- **Identify Specific Tasks and Goals**
- **Trial of Devices**
- **Placement and Training**
- **Determine Effectiveness**

# Demos

- **Try Before You Buy**
- **Need to Get Your Hands On It**
- **Demonstration is Critical**
- **CCB and NELVB, etc.**

# Training

- Often Overlooked
- Basic Orientation and Training
- Intense Training

# Return Policy

- Understand the return policies.

## Summary

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