



Centurion
UNIVERSITY
Shaping Lives...
Empowering Communities...

Electronic low vision devices



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Contents

Sl no	Topic	Slide no
1	Introduction	3
2	Categories	4 – 10
3	Conclusion	11



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Introduction

- Electronic optical system is to make the **object appear larger**
- Principle used is **projection magnification.**



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Categories

They two types:

- 1. Closed circuit television.**
- 2. Head mounted system.**



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Closed circuit television

This consists of two major components:

1.Camera

2.Monitor

Types of CCTV :

1.Camera mouse CCTV.

2.CCTV with movable platform.

3.Portable CCTV.



Centurion
UNIVERSITY
*Shaping Lives...
Empowering Communities...*

Continue...



Fig no 1 :CCTV



Fig no 2 :ACROBAT



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Advantages

- 1) Adjustable projection magnification levels.
- 2) Reading distance is more flexible than most others .
- 3) Contrast can be adjusted .
- 4) Variable field of vision.
- 5) Illumination system is available.



Centurion
UNIVERSITY
*Shaping Lives...
Empowering Communities...*

Disadvantages

- Expensive .
- Not easily available.
- Needs more training.



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Head mounted systems

Two types

1. Low vision enhancement system.
2. V- Max.



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Continue...



Fig no 3: V MAX



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

Conclusion

- They enlarge the image size.
- Camera with a zoom lens transmits the image on to the monitor.



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

REFERENCE

- Essentials of low vision practice .Butterworth Heinemann. Richard L Brilliant 1999.chapter no :14 , pg no 107 to 109.