CYBERMIND VB-56 SXGA

High-end Virtual Binoculars with 56 degrees Field of View for professional Virtual and Augmented Reality applications

The FLCoS display technology incorporated in our Visette45 is also being used in our first Virtual Binocular Model.
The VB-56 SXGA supports all resolutions up to SXGA.
It's amazing 56 degrees Field of View in combination with the high resolution makes it the ideal tool for research and training applications.

Optional the InterSense InertiaCube2+ or InertiaCube3 can be fitted within the body for a seamless integration and 4 programmable buttons are available for zoom in/out and other functions.

Preliminary Version – Images & Specifications maybe changed without notice

Product Specification:
Full-Color, SXGA Virtual Binoculars.

General Features:

- Binocular-type full stereoscope
- Possible for word processing
- Almost no influence of the outside illumination to the view
- Low power consumption
- Dual input signal for PC (with optional video)

Specifications:

Structure:

- Basically a non-through type
- Adapted a binocular, full stereoscopic type

Display:

- F-LCoS method, reflecting, single plate type)
- Screen quality: SXGA(1280X1024), about 1.3 million pixels x RGB
- Pixel pitch : 13.62µ
- Color depth: 24 bits
- Response time: 0.1ms
- Active area: 0.88 inch
- Contrast: 200:1

Optical structure:

- F.O.V.: 56 degrees circular
- Exit Relief 12mm
- IPD: 56 - 74mm
- Focus: -4 to +4 Dioptre
- Brightness: 0 to 45ft-L
- Focus: Infinity
- Light sources: LED(Red, Green, Blue)

Controller:

- Employed OSD function (English/German/French/Italian/Spanish/Polish)
- Input signals:
  Dual(3D): Analog RGB, DVI. Optional Composite (NTSC/PAL), S-video
- Input power: AC100 to 240 Free Voltage ~1.6A Max
  Output sources: +12V – 5.42A

Basic Functions:

Magnification of images:

- Basic image formation: 4:3 image screen
- Accepts 16:9 images format as a basic screen at the display

Down-scale Functions

- Basic resolution: 1280x1024 pixels
- Accepts image sources smaller than 1280x1024 and displays them in full screen.
- Accepted input sources: VGA, SVGA, WSVGA, XGA, WXGA

Image signal conversion functions

- Basic display signal: VESA Standards
- Supporting signals: Analog RGB, DVI, Composite (NTSC/PAL/SCAM), S-video

Generally interchangeable image devices:

- Medical machines
- Training Simulators
- Image and communications equipments, etc.

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