



Visette45 SXGA

**The first affordable High-End Head Mounted Display
For professional Virtual and Augmented Reality applications.**



Available with optical see through feature.

Features: The flexible design enables us to integrate seamlessly: The InertiaCube³™ head tracker device (optional) with custom solutions available for Polhemus, Ascension and the InertiaCube². The Visette can be purchased with a see trough option and depending on the amount of HMD's also in a large scale of colors.



The Visette is supported by Cybermind in house developed electronics platform, this directly influences the high level of flexibility Cybermind can offer in its solutions. These Cybermind electronics support resolutions up to SXGA, accepts multiple formats and is the main reason why Cybermind offers by far the most affordable high end solutions in the Head Mounted Display market.

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Preliminary Version – Images & Specifications maybe changed without notice



Cybermind's Visette45 SXGA offers our new display technology within our fully immersive, lightweight and comfortable design.
Key features are: Strong and durable but most of all comfortable.
The Visette's design enables us to integrate a wide range of precision trackers seamlessly in our design. The HMD is complete including high quality headphones and weighs less than 700 grams.



It's 45 degrees Field of View (diagonal) in combination with the high resolution makes it the ideal tool for research and training applications.
Our Visette® is used by various companies and research institutes such as Brown University, NASA Space Agency, University of Delft, Canadian Space Agency, Lockheed Martin, TNO, MIT Boston etc.

The Visette is also the world's leading HMD for the entertainment industry and is used for LBE systems all over the World.

The Visette 45 is now available with the new lightweight control unit.





As an Option (for a small surcharge) we also offer a See Through version allowing the user to look through the displays.
Making it ideal for Augmented Reality applications.



The applications vary from research into phobia, fear of height, training of pilots, industrial research applications etc.

The new FLCoS display technology incorporated in the Visette45 supports all resolutions up to SXGA.
These new open designs based on the Visette 45 optics showcase the optical see through functionality:



All our products are hand-made so that our customers get the best quality/performance. Our design permits us great flexibility that enables us to integrate various sensors, trackers, cameras and headphones.

Tell us your application needs & we will tell you the possibilities.



Product Specification: Full-Color, SXGA Immersive Head Mounted Display.

General Features:

- See-Through Optional
- A see-close function is added to use as an auxiliary device.
- 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 Video & PC (3D version only)

Specifications:

Structure:

- Basically a see-through type
- Accepted see-close function as a secondary function
- Adapted a binocular, full stereoscopic type

Display:

- FLCOS method, reflecting, single plate type)
- Screen quality: SXGA(1280X1024), about 1.3 million pixels x RGB
- Pixel pitch : 13.62 μ m
- Color depth: 24 bits
- Response time: 0.1ms
- Active area: 0.88 inch
- Contrast: 300:1

Optical structure:

- Screen size: 80"
- Image distance: 2m
- F.O.V.: 45deg [36deg(H) X 27.4 deg(V)]
- Exit Pupil: 12mm(H) X 6mm(V)
- Focal length: 280mm
- Light sources: LED(Red, Green, Blue)

Controller:

- Employed OSD function (English/German)
- Input signal:
Single(Basic): Analog RGB, DVI, Composite (NTSC/PAL), S-video
Dual(Option) : Analog RGB, DVI, Composite (NTSC/PAL), S-video
- Power
Input power: AC80 to 280 Free Voltage
Output sources: 12V

Basic Functions:

Magnification of images:

- Basic image formation: 5:4 image screen, 80"diagonal angular view at 2m from the screen
- Enlarges small image sources as a basic image size at the display
- Accepts 16:9 images format as a basic screen at the display

Up-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:

- DVD, VCR, VCD
- PC, PDA
- PMP(Portable Multimedia Player), Mp4, VOD service equipments
- Game machines (Playstation2, X-Box, etc)
- Medical machines
- Training Simulators
- Image and communications equipments, etc.

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