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on the world's most affordable,  
multi-user VR headset

# hi-Res900™

The **hi-Res900™** headset compatible with a wide range of computer and video input formats, providing the user with an extremely high quality (800x600 SVGA) image at an affordable price.



Lightweight and compact, the PC-friendly, multi-user **hi-Res900™** delivers immersive large screen visualisation for a diverse range of VR and simulation applications.

The multi-user **hi-Res900™**, at only 650g, delivers SVGA quality graphics, and can seamlessly integrate the Intertrax 2™ tracking system **internally!** Other tracking systems are available upon request



The **hi-Res900™** has an injection moulded body that is built to last, and the user friendly 'twist adjustment' facility means that it is suitable for almost every head size. Combine this with the ability to wear eye glasses and the **hi-Res900™** becomes ideal for multi-user applications.

**hi-Res900™** - the ideal solution for any multi user environment.....



## hi-Res900 Specifications

Signal System VGA/SVGA/NTSC/PAL/S-VHS  
 Image Output 800(H)\*600(V)\*RGB (1.44 million pixels)  
 PC modes SVGA(75Hz), SVGA(72Hz), SVGA(60Hz), VGA(60Hz)  
 F.o.V.  $\pm 31.2^\circ$  degree diagonal field of view

Control Function  
 Brightness  
 Contrast  
 Volume  
 Colour  
 Hue  
 H-position  
 V-position  
 Sharpness

External Connectors  
 Power jack  
 D-sub 15pin  
 S-VHS jack  
 RCA video jack  
 Stereo audio jack

Headset Cable Fixed 24pin\*1  
 Power Consumption Approx.6W (PC mode)  
 Approx.5W (AV mode)

Operating Temperature  $0^\circ\text{C} - 45^\circ\text{C}$   
 Storage Temperature  $-20^\circ\text{C} - 70^\circ\text{C}$   
 Weight Headset: Tracked 700g  
 Untracked 650g  
 Weight Control box: 180g  
 Head Tracker – InterTrax<sup>2</sup> (Optional)  
 – Other (On Request)

## hi-Res900 Display Resolutions

Display Mode	Resolution (pixel)	Horizontal Freq. (KHz)	Vertical Freq. (Hz)
VGA graphic	640 x 480	31.5	60
VGA text	640 x 480	31.5	70
VESA VGA (72Hz)	640 x 480	37.9	72
VESA VGA (75Hz)	640 x 480	37.5	75
VESA VGA (85Hz)	640 x 480	43.3	85
VESA SVGA (56Hz)	800 x 600	35.2	56
VESA SVGA (60Hz)	800 x 600	37.9	60
VESA SVGA (72Hz)	800 x 600	48.1	72
VESA SVGA (75Hz)	800 x 600	46.9	75
VESA SVGA (85Hz)	800 x 600	53.7	85
Video NTSC	All formats supported		
Video PAL	All formats supported		
Video S-VHS	All formats supported		

## Intertrax 2 Specifications (if fitted)

Degrees of Freedom	3 (Yaw, Pitch, and Roll)
Angular Range:	Pitch $\pm 80^\circ$ Yaw $\pm 180^\circ$ Roll $\pm 90^\circ$
Maximum Angular Rate	$\pm 720^\circ$ yaw, pitch elevation, $\pm 360^\circ$ roll
Minimum Angular Rate	$3^\circ$ per second
Internal Update Rate	256 Hz
Internal Latency	4 milliseconds
Angular Resolution	$0.02^\circ$ relative
O/S Compatibility	Win98/2000
H/W Compatibility	PC, Workstations, Sony Playstation2™
Interface	USB or Serial RS-232
Protocol	Compliant with USB HID