

## APG6000 Active Glasses & IR Emitter System



### 3D- Active Glasses - APG6000

MacNaughton Inc's active glasses are designed from the ground up to meet the demands of 3D Group Visualization. They provide the ultimate 3D experience in a stylish, comfortable and rugged package that is sealed to allow for a thorough cleaning. Battery is sealed to insure the glasses can be washed in a dishwasher.

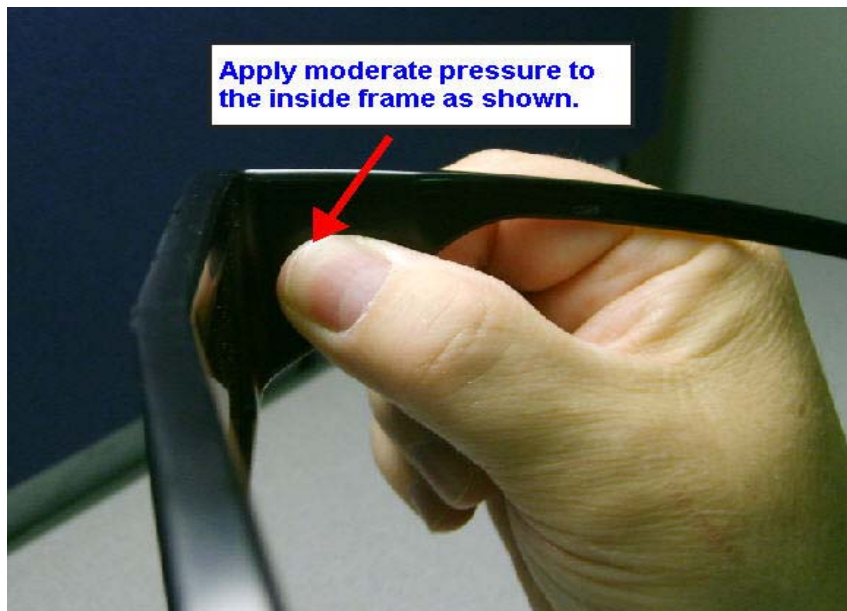
Parameter	Specifications
Lens Type	Pi-cell LCD
Lens Size	2.5" diagonal
Weight	2.1 oz
Lens Transmittance	29%
Synchronization Method	Infrared – 940 nm
Battery	A 3v Lithium/Manganese Dioxide coin cell is sealed in the frame of the glasses
Battery Life	Active Mode (IR signal being received) = 700 hours Clear Mode (No IR signal) = 8000 hours Off = 5 years
Dynamic Range	200:1
Frame	Sealed, fully washable

## AGP6000 Active Glasses – Handling Instructions

Parameter	Instructions
Storage	Glasses should be stored away from any IR source such as fluorescent lights or be covered so the IR does not trigger the glasses to switch to the on state. The storage temperature should be standard office temperatures as high temperature environments reduce battery life.
Handling	The AGP6000 glasses are generally pretty durable, but the lenses can be

	cracked if the glasses are rotated around the focal point of the nose piece. When distributing the glasses to users care should be taken to handle the glasses by the frame in order to avoid getting fingerprints on the lens.
Cleaning	The AGP6000 glasses can be washed in a dishwasher in which the water and drying temperature does not exceed +50 degree Centigrade (+122 degree Fahrenheit). If cleaning by hand you can use a standard cleaning agent that is not ammonia based. Windex has an anti-bacterial cleaning product that works quite well. The glasses can also be washed under a faucet using liquid soap and warm water. When cleaning by hand you should dry the lenses using a lint free, soft, drying cloth. (DO NOT USE PAPER TOWELS AS THEY CAN SCRATCH THE LENS)

## On/Off Instructions



When turned on the lenses will temporarily go dark while in warm up and after 8 seconds will go clear. When turning off the right lens will flash. The number of flashes will indicate how much battery power is left, 6 flashes full battery, 1 flash 1/6<sup>th</sup> of battery left.



**APG110, Emitter, Narrow Angle.** This emitter is designed for small theaters and visualization centers with up to 100 seats. Multiple emitters can be serially connected for larger venues. The emitter is designed to be placed near the projector and aimed at the

screen, allowing the screen to spread the reflected IR into the theatre. It contains 56 high-power, narrow-angle ( $\pm 10^\circ$ ), IR diodes and consumes four watts of power in active operation.

## APG110 IR Emitter - Specifications

For APG6000 Glasses Only

Parameter	Specifications
Input Power	AC-DC Auto Switching Power Supply, 24 VDC, 100-240VAC
	Plug options: North American, UK, Euro, and Australian.
Power Consumption	4 watts in active operation
IR Frequency	940 nm
IR Emission Angle	10 degrees
IR Emission Range	100 feet typical. (30 meters)
Controls	Eye Reversal
Indicator Lights	Frame Sync, Power
Inputs	BNC, DC Power
Sync Signal Std.	VESA standard frame sync TTL Logic Low: 0 – 1.7V = Right Eye High: 1.8 – 5.0V = Left Eye
Dimensions	4.4" (111.8 mm) width, 1.4" (35.6 mm) height, 3.0" (76.2 mm) depth
Weight	6 ounces (.17Kg)
Certifications	UL, CE, and Euro RoHS