

# G12 Remote Infra-Red Sensor



**Matte black tubular sensor**

**Designed for flush-mounting in a vertical surface or may be surface-mounted**

**Cable plugs directly into the sensor input on a G-Series component**

**Compact and unobtrusive**

**Meridian's G Series** line of high performance digital & analogue consumer audio components feature a stylish cabinet design in traditional black or a sleek silver finish.

Designed to be either free-standing or rack-mounted, G Series components build on their predecessors, the multi-award-winning 500 and our flagship 800 Series, and include entirely new circuitry developed specifically for the G Series.

Multi-layer boards reduce system noise and improve performance. In products which include video capabilities, broadcast-quality, wide-bandwidth video components are employed for maximum image integrity.

G Series units are easy to use. Where appropriate, a knob is included to control volume. The positive-action front-panel keys are software-defined: their legends are presented in the vacuum fluorescent display and change intelligently according to context.

Full installation configuration of many G Series components is achieved by running a special setup program on a Windows computer, connected to the G Series unit via a serial link, or direct from the front panel.

G Series products also include serial ports for remote operation and configuration, along with infra-red sensor input and trigger capabilities, plus Meridian communications ports. A comprehensive back-lit learning/programmable remote is included with products other than amplifiers.

The G12 remote infra-red sensor is designed to be used in conjunction with Meridian G Series systems, in circumstances where the actual components are not visible or where other circumstances prevent them receiving a signal from the remote control using their built-in sensors.

The G12 consists of a precision-machined cylindrical body and optional nut, with a non-removable, rotatable infra-red-transparent cover on the front of the barrel which determines the orientation of actual sensor element on the circuit board within the barrel.

A two-core screened cable provides power to the sensor as well as returning the signal to the connected device. The cable is terminated with a 3.5mm stereo jack plug which is plugged into the IR IN socket of a G Series product.

Typically, the remote sensor will either be mounted flush through a vertical surface or surface-mounted.

For mounting in a vertical surface, the G12 is treated in a similar fashion to a 'door-scope' security device. A 0.63 (41/64th) inch (16 mm) hole is drilled in the surface, the sensor barrel is inserted from the room side, and the retaining nut, if required, is screwed on to the barrel from the rear to hold the unit in place. Finally, the front cover is rotated so that the lines are horizontal for maximum sensitivity.

For surface mounting, the body of the device (which is flattened on opposing sides for this

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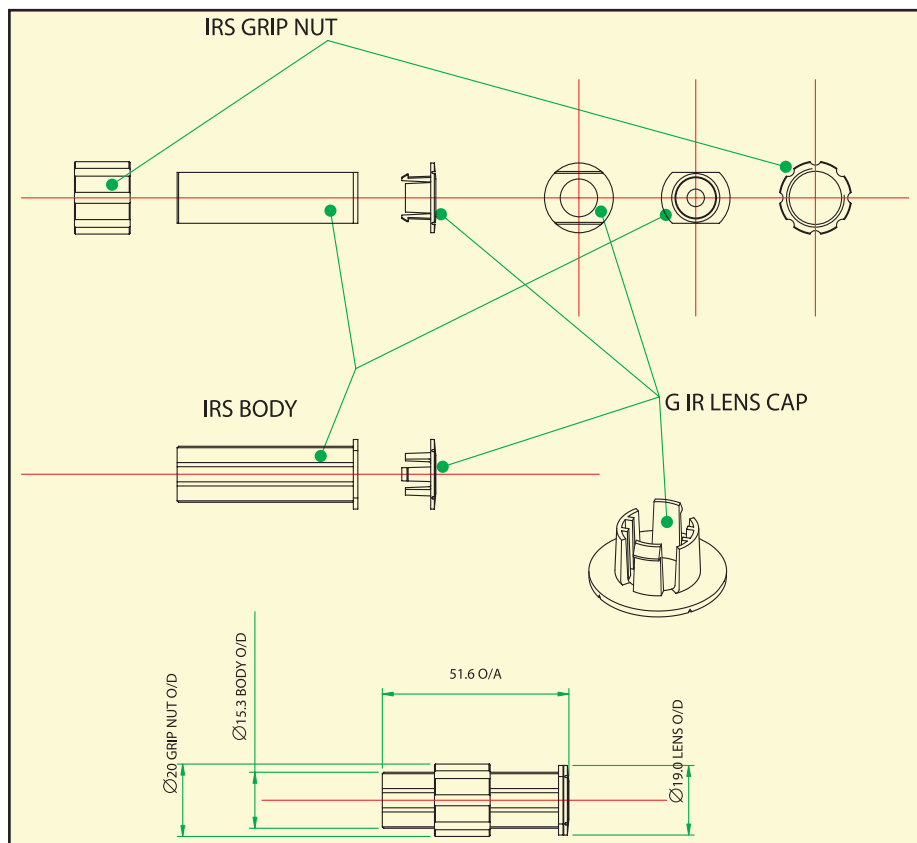
purpose) is fixed with double-sided tape or other adhesive to the top or bottom of a suitable horizontal surface such as a shelf, or against a vertical surface. In this case, the retaining nut is discarded. Before attaching the cover, one of the edges of the front disc (or both if necessary) should be snapped off to enable the entire assembly to sit flat on the surface.

The front disc rotates so that it can be positioned correctly (with the lines or flats horizontal). Note that this also rotates the circuit board and cable assembly.

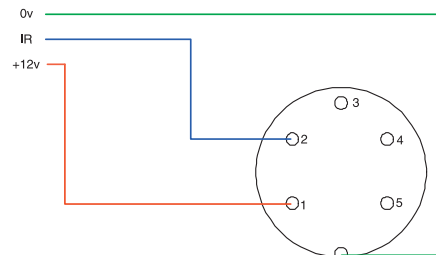
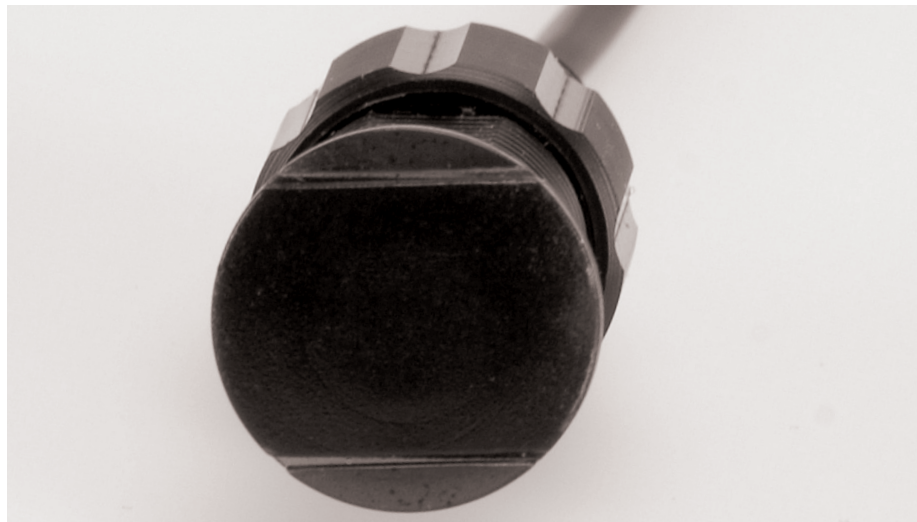
A cable length of 6ft (1.83 m) is provided, terminated with a 3.5mm three-pole ('stereo') mini-jack. This is inserted into the IR IN port on the component. Alternatively, the cable can be shortened or extended as necessary. The wiring for the plug is as follows:

Tip: +12v DC (blue)  
 Ring: Sensor out (red)  
 Sleeve: Ground (screen)

The G12 can be used with other Meridian product series in conjunction with a suitable adaptor.



Above: Architectural drawing of the G12 sub-assemblies. All dimensions are in millimetres. Below: front view of the G12 assembly. The actual sensor is covered and protected by an infra-red-transparent rotatable plastic cover which also holds the internal circuit board in place. If the sensor is to be surface-mounted, one or both edges of the cover can be snapped off along the line to allow the sensor assembly to lie flush against the surface. Opposite sides of the body are flattened for this purpose. For maximum sensitivity, the final alignment of the cover should be as shown below, with the grooves (and thus the internal circuit board) horizontal. Do not attempt to remove the cover.



Wiring diagram for an adaptor to enable the G12 to be used with other Meridian series, such as the 800 Series and legacy products. DIN plug viewed from the front. Green represents the cable screen braiding.

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Further technical details, images, product reviews and company history are available from Meridian Audio or from our web site, [www.meridian-audio.com](http://www.meridian-audio.com)

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