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VIDEO TARGET GENERATOR TG3

The TG3 provides a superimposed cross hair within a rectangular frame on a CCTV or video monitor image. The size and position of the rectangular frame can be controlled.

The position and size of the rectangle can be set to suit the application. The cross hair is always in the centre of the rectangle (effectively giving the “centre of gravity” for irregularly shaped components). There is a switched option to fill in the rectangle and the contrast of the pattern can be controlled from darker to lighter to suit the general background level.

General specification

TV standard: Compatible with EIA, CCIR, PAL, NTSC
Interface: Single coaxial lead with BNC plugs to second monitor socket or via BNC “T”.
Power: 110V to 240V, 50/60 Hz without adjustment
Controls: 10 turn potentiometers for position. Single turn potentiometer for contrast.
Dimensions: 155mm x 62mm x 85mm
Pattern: Cross hair centred within a rectangle. Reverse contrast by switch.
Setting: Non volatile, setting information is retained when switched off.

Outline

The TG3 is designed for applications where accurate location of objects on the screen is needed with respect to their edges (surface mount components or semiconductor chips for example). The TG3 provides a rectangle having line edges together with a central cross hair. The position and size in the horizontal and vertical are control by four ten turn potentiometers. The cross hairs stay at the centre regardless of size or position enabling an accurate location of an object’s centre to be made, even where the object may not be regular in shape. Where it is more convenient, a switch allows the rectangle to be filled in to give a solid target. The TG3 has a contrast control, which can be used to provide a pattern that is either lighter or darker than the background.

For special applications several target generators can be used together (due to the way that the signal is processed there is no limit on how many). For instance where a

microwave semiconductor chip needs to be placed accurately on a header between two pins for which there is no inherent position reference the pins can be located with one TG3 and the chip with a second TG3.

All TG3s are powered from the mains supply with no adjustments needed for 110/240V or 50/60Hz.

Two BNC sockets are provided. These allow the TG3 to be used as a through connector. If switched off the TG3 will still allow normal viewing.

The use of dedicated target generators avoids the need to introduce computers where these would not otherwise be needed. If however video capture hardware/software on computer is used target generators can be connected to the camera output giving the same results as for a monitor-based system.



For more details of this and other Ely Optics Limited products and services please contact:

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