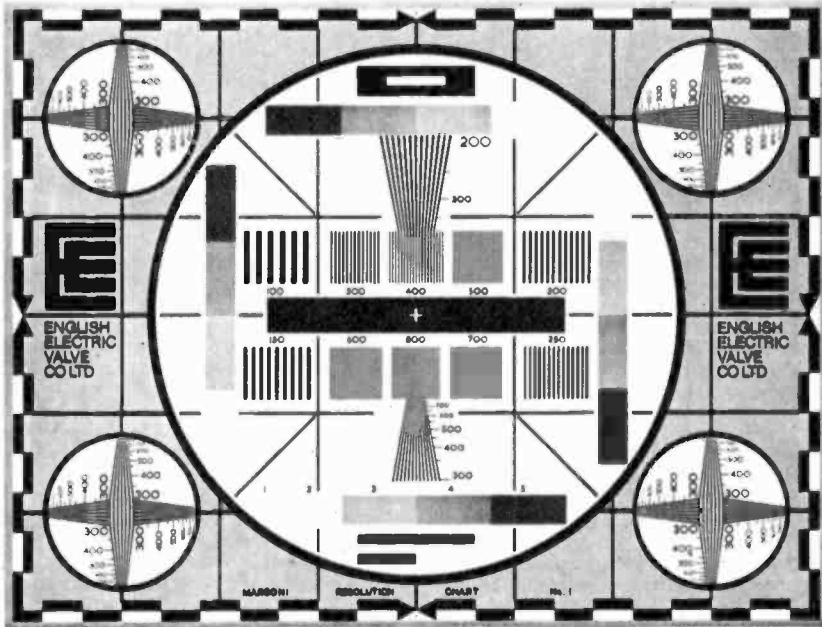


# EEV Test Chart for CCTV Cameras



The English Electric Valve Company has recently produced a camera tube and system test chart specially for use with closed-circuit television (CCTV) systems.

Photographic copies of the chart (measuring 10½in x 8in) and a leaflet describing its use are freely available to anyone using closed-circuit television, in return for information about the types of cameras they are using, etc. The test chart is also available mounted on hardboard: this more durable version will be available to customers who place orders for EEV vidicons.

The EEV test chart is based upon the Marconi Resolution Chart No 1, and Marconi's assistance in its preparation and permission for its use is gratefully acknowledged. Every care has been taken in the preparation and production of the EEV chart. It forms a most convenient, low cost, effective aid in making qualitative assessments of CCTV cameras and systems. In general it is intended for CCTV systems using vidicon cameras.

The test chart has the following important features, which may be noted with reference to the small reproduction shown above. The general background of the chart is a neutral grey, equivalent to the average brightness level of a typical scene. The centre line of the castellated surround defines the active picture area. The coarse grating pattern of horizontal and vertical lines allows a qualitative visual assessment of electronic scanning linearities.

There is a large central circle, and four corner circles, for checking picture geometry. Also vertical and horizontal blocks of lines of various frequencies placed in strategic positions, and five-step grey scales, disposed both vertically and horizontally.

The chart is designed for use with front illumination, preferably by a tungsten lamp. This must be placed to avoid or minimise specular reflections entering the

camera lens. The recommended intensity of illumination on the chart is between 100 and 200ft candles. The chart is placed normal to the axis of the camera tube, at a distance such that the chequered edge of the chart produces an image on the target equal to the normal scanned area.

The fine detail resolving power of the camera or CCTV system can be noted from the resolution blocks and wedges in the test chart. The vertical bars within the circle are arranged in blocks to give the horizontal resolution of the system in number of lines per picture height. The vertical resolution wedges enable limiting picture centre resolution to be observed. The corner resolution wedges enable both the vertical and horizontal resolutions to be assessed. Adjustment may be made to achieve optimum overall picture focus by observing wedges in both the centre and the corners.

The grey scale is included for the setting up of the camera tonal range and enables final adjustments to be made in the brightness and contrast levels. The purpose of the blocks of black and white and white on black is to permit observation of low and middle-frequency response.

Applications for the EEV Test Chart should be directed to the Publicity Department, English Electric Valve Company Ltd, Chelmsford, Essex, England, enclosing the requested information about the cameras and other CCTV equipment being used. Information on other precision test charts in the Marconi range, if required, may be obtained from the Sales manager, GEC-Marconi Electronics Ltd, Central Division, Lane Works, Waterhouse Lane, Chelmsford, Essex. ■

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