

- i. The test card shall be the Marconi Resolution Chart No.1 or its derivatives with a colour bar, clearly differentiating between colours with no tinting to show the following:
  - White.
  - Yellow.
  - Cyan.
  - Green.
  - Magenta.
  - Red.
  - Blue.
  - Black.
- ii. At the start of each and every working shift, the camera shall be positioned centrally and at right angles to the test card at a distance where the full test card just fills the monitor screen, ensuring that the edges of the test card castellations coincide with the edges of the horizontal and vertical scan (raster). The card shall be illuminated evenly and uniformly without any reflection. The illumination shall be to the same colour temperature as the colour temperature of the lighting that will be used on the CCTV survey equipment in the pipe. The test shall be recorded for subsequent use by the Engineer, the recording time to be at least 30 seconds. The type of camera used is to be identified on the test recording. The recording must show the camera being introduced into the test device and reaching its stop position.
- iii. Other test devices may be used subject to approval by the Engineer.

H. The electronic systems, and monitor shall be of such quality as to enable the following to be achieved:

- i. Shades of grey. The grey scale shall show equal changes in brightness ranging from black to white with a minimum of five clearly recognisable stages.
- ii. Colour. With the monitor control adjusted for correct saturation, the six colours plus black and white shall be clearly resolved with the primary and complementary colours in order of decreasing luminance. The grey scale shall appear in contrasting shades of grey with no tint.
- iii. Linearity. The background grid shall show squares of equal size, without convergence/divergence over the whole of the picture. The centre circle shall appear round and have the correct height/width relationship ( $\pm 5\%$ ).