



9.2.5 UPC-E Symbol Specifications

The UPC-E Bar Code is used to encode a Zero Suppressed GTIN-12 and is intended for scanning in a retail POS environment only.

Note: GS1 US is no longer allocating GTIN-12s that are able to be zero suppressed.

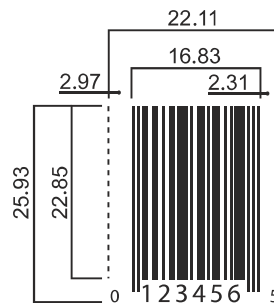


Figure 10 UPC-E Bar Code at Nominal Size (100%)

Magnification

The specified magnification range for a UPC-E Bar Code being scanned at retail POS is between 80% and 200% (X-dimension 0.26mm - 0.66mm).

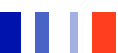
An allowable minimum magnification of 75% (X-dimension 0.25mm) is applicable only to on demand (e.g. thermal) print processes. In this case, the bar height should never be truncated below the minimum required height for an 80% magnification bar code. When printing a minimum symbol with any method of printing, the area provided for printing the symbol and the required Quiet Zone should never be less than the area required for an X-dimension of 0.264 millimetre.

Human Readable Interpretation

The Human Readable Interpretation should be printed beneath the bar code and must show all of the digits encoded in the bar code. The U.P.C. Prefix and Check Digit, encoded by variable parity, are shown outside the guard bar patterns, to the left and right respectively, and within the Quiet Zones. These two human readable digits are aligned with the other six digits.

The U.P.C. Prefix and the Check Digit are reduced in size to a maximum character width of 1.32mm, four module widths, at nominal size (100% magnification, X-dimension 0.33mm), with a proportional height. The U.P.C. Prefix should be located 1.65mm, five module widths, at nominal size (100% magnification, X-dimension 0.33mm) to the left of the left guard bar pattern, and the Check Digit should be a minimum of 0.99mm, three module widths at nominal size (100% magnification, X-dimension 0.33mm) to the right of the right guard bar pattern.

Previous specifications have suggested that the U.P.C. Prefix and Check Digits be shown in Human Readable Interpretation half way up the bar code to the left and right, or that the Check Digit be omitted altogether. While it is not the current recommendation, UPC-E Bar Codes in this format may continue to appear.





Symbol Height

The dark bars forming the left, centre and right Guard Bar Patterns shall be extended downward by 5X (e.g. 1.65mm at X-dimension 0.33mm)

See Table 133 for height of bars at various X-dimensions.