

October 12, 2016

Engineering Change Notification

To: All Relevant Customers
From: Newhaven Display Marketing, Business Management

This notice is to inform you of a change to the following LCD display part numbers:

OLD part number	NEW part number
NHD-7.0-800480EF-ATXV#	NHD-7.0-800480EF-ASXV#
NHD-7.0-800480EF-ATXV#-CTP	NHD-7.0-800480EF-ASXV#-CTP

The white LEDs used in this product have been discontinued. We have revised this display to use a new backlight design which provides significantly higher brightness and image quality at nearly the same electrical characteristics.

The old "ATXV" parts have a backlight unit with:

- 24 LEDs
- 160mA typical
- 9.6V typical
- 280cd/m² typical

<http://www.newhavendisplay.com/specs/NHD-7.0-800480EF-ATXV.pdf>

<http://www.newhavendisplay.com/specs/NHD-7.0-800480EF-ATXV-CTP.pdf>

The new "ASXV" parts have a backlight unit with:

- 27 LEDs
- 180mA typical
- 9.6V typical
- 600cd/m² typical

<http://www.newhavendisplay.com/specs/NHD-7.0-800480EF-ASXV.pdf>

<http://www.newhavendisplay.com/specs/NHD-7.0-800480EF-ASXV-CTP.pdf>

Users may use the new "ASXV" part as drop-in replacements for the old "ATXV" part with no changes in their enclosure or circuit.

If you drive the new "ASXV" part at the same 160mA as the old "ATXV" part, you will still see an increase in brightness and image quality as shown below:



If this increase in brightness is not desired, we recommend lowering the sourced current to the backlight down to 130mA instead:



*Note, with the new LEDs, there may be a noticeable *color shift* in certain viewing directions.

Please email nhtech@newhavendisplay.com for further information or assistance with this display change.