

# Digital – Deck Status Display



## Critical Communications, Controls and Instruments, LLC

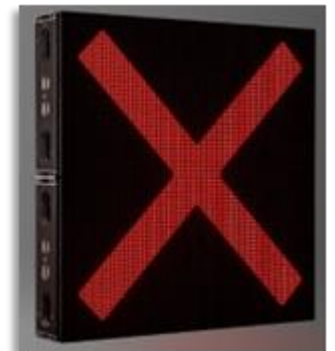
8 Commerce Way  
Exeter, NH 03833  
P: (603) 929-9989  
F: (603) 929-9959

DUNS: 019906085  
NAICS: 334511 / 541330  
Operating as a Small Business Entity  
[www.c3i-usa.com](http://www.c3i-usa.com)

**Problem:** Deck Status Lights and Displays are used on Navy and Coast Ships to alert flight deck crews and pilots of the status of the flight deck (and the entire ship) to conduct flight deck operations. They use Red, Amber, and Green legacy lighting fixtures to indicate the status. These devices have limited life, are usually in difficult locations on the ship to replace and are essential for conducting safe flight deck operations.

**Solution:** C3I has developed a LED-based Deck Status Display that is fully integrated with both NAVAIR's ALS-CPS Program of Record with an Authority to Operate and C3I's ACCS® system installed onboard the three ships in the DDG 1000 ZUMWALT Class for controlling flight deck systems and equipment. C3I's solutions incorporate innovative, solid-state display panels with a proven design that is in full production for the commercial marketplace. Capabilities include:

- A Printed Circuit Board with LED light spacing of 6mm incorporating conformal coating of the PCB providing crisp images to the deck crew and Helicopter pilots
- IP65 environmental qualifications
- A LED display screen, as shown in the images, that is manufactured to operate in extreme environmental conditions, including hurricane force winds, significant vibration, marine environments, and operating temperatures of -40°F to 185°F
- Operator adjustment of color, image, light intensity and Daylight/NVIS modes from the touch of a button on the ALS-CPS Control Panel screen to meet mission requirements
- DSD is extremely durable, easy to maintain, and offers full-color outdoor LED lighting
- Ease of installation due to the lightweight nature of the display
- Rugged electronic connections for all weather operations including in the marine environment
- Windows 10 operating system meeting cybersecurity requirements
- Offering the shipboard and helicopter crews safer operations in any sea state, time of day and adverse weather conditions



Images of C3I's Deck Status Light and Deck Status Displays



Location of the Deck Status Light onboard USS ZUMWALT (DDG 1000)