

UNIFLASH®-III THIRD GENERATION WIRELESS SYNCHRONIZATION SYSTEM



Channel navigation is made safer and simpler by controlling the flash relationship among aids to navigation lights. Most typically, this is done by direct wire connection of lights which then flash in unison. Many leading lines (range lights) are flashed in this manner. Oil production platforms also display synchronized lights to improve depth perception and to assist in delineating one platform from another. Where it is not possible to synchronize leading lines, the flash rhythms are assigned to provide an overlap in "on" time so the mariner will see both lights together. This usually requires an occulting light or fixed light with its much larger energy demand.

Recognition of buoy lights for a particular channel or channel segment is often a problem. They flash at random in a host of background lights including other buoy lights from other, nearby channels. Conditions may be particularly confused in complex harbors where several busy waterways converge.

UNIFLASH®-III gives the possibility of prescribing the flash relationship of large numbers of lights. Without the use of wires, any number of flashing lights may be set to flash simultaneously or in any sequence.

UNIFLASH®-III offers:

- An organized system of signals which are much more conspicuous and useable than a random flashing system of signals.
- More piloting cues as unison flashing or sequenced flashing lights improve depth perception and provide additional cues as to the effect of environmental forces on the set and drift of a vessel.
- Potential for energy saving in not having to flash as large a lamp or flash the lamp as often to overcome background lighting.
- Elimination of power and synchronization wiring with solar powered, wireless synchronized platform obstruction lights.

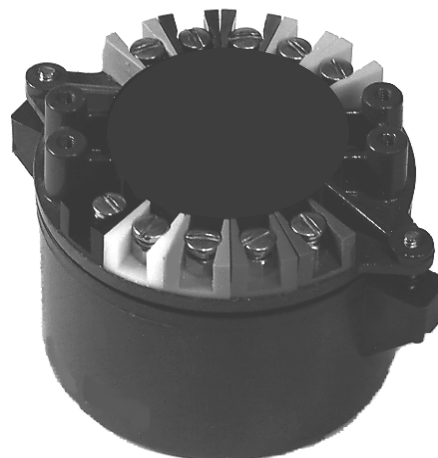
UNIFLASH®-III relies on Global Positioning System (GPS) signals for synchronization of the signals. Due to GPS's worldwide coverage, there are no limitations on the numbers and locations of aids to navigation lights that can be sequenced or synchronized. **All the navigation lights in an entire country could be flashed together!!!**

UNIFLASH®-III circuitry processes the GPS signal and generates a synchronization pulse that resets the timing of an APCL-5 FLASHCHANGER®, AM-8 or AM-6 LED flash controller. Each preprogrammed flash rhythm may be synchronized with other lights. If any portion of the synchronizing circuitry should fail, the light continues to operate in an unsynchronized mode.

Lightweight, compact and extremely energy efficient, the APT2 GLOBALNAV controller and the GPS receiving antenna for the UNIFLASH®-III system will fit inside a standard 155mm, 85mm, 85801 or 249801 self contained lanterns. Power consumption is so low for the UNIFLASH®-III that it may be retrofitted to existing lanterns with solar power system without any change in the size of the solar power system.

Specifications

- **Synchronization Accuracy:** < 10 μseconds
- **Power Supply** : 6 or 12 Volts DC
- **Power Consumption:** < 2 milliamps average
- Visual Indicators of timing acquisition and synchronizing pulse.
- Programmable synchronizing period.
- Real Time Clock accurate to 10 μseconds of UTC.

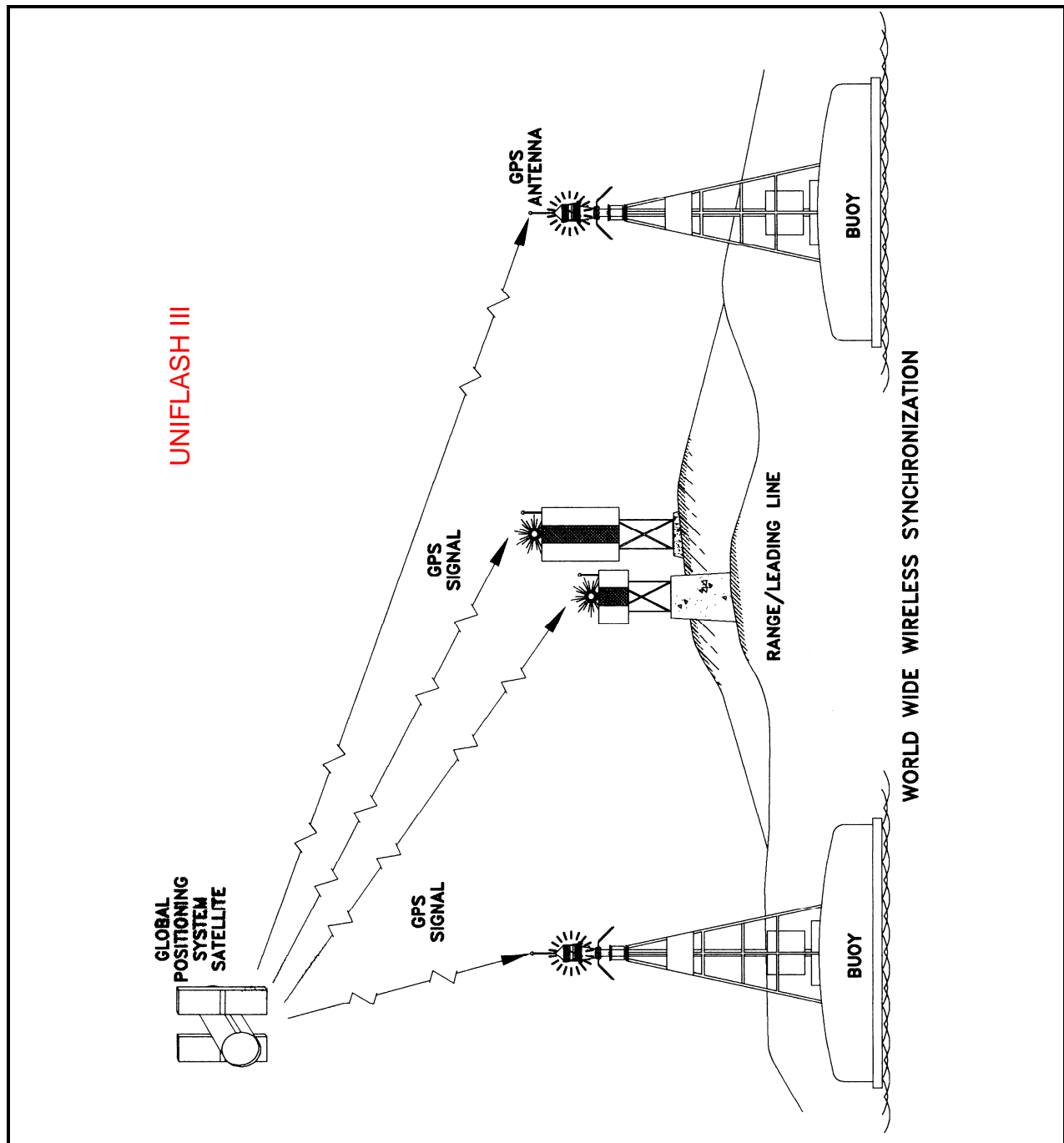


APT-2 Globalnav Controller

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