

What Is A Sunlight Readable Monitor?



A [Sunlight Readable monitor](#) is a video display which is specifically designed for use in direct, bright sunlight. They are also known as Hi-Brite or High Brightness monitors.

As you have probably seen, images on standard video displays (monitors, TV's, cell phones, laptops) are difficult, if not impossible, to see outdoors on bright, sunny days. This is due to lack of screen brightness and reflections off the outer glass.

Sunlight Readable monitors feature a far greater number of LED backlights than standard monitors to increase the screen brightness to 1,000 nits (cdm²) or more. (Compared to 150-200 nits for a laptop, or 200-300 nits for a typical video monitor). This higher brightness enables the user to see clear, vivid images even in direct, bright sunlight.

If your application requires the addition of protective glass to shield the LCD panel from accidental or intentional damage, Anti-Reflective or Anti-Glare glass can be added. However, please be aware that even the highest-quality AR or AG glass will still have some level of reflectivity (certainly more than a naked LCD panel.) If you do require protective glass, we will strongly urge you to also have the glass and LCD panel [optically bonded](#) in order to prevent troublesome internal reflections.

Caution: Monitors with 300 to 600 nits are not Sunlight Readable! However, some new 700 nits monitors, with the addition of [optical bonding](#) and lateral inhibition (such as our [SXOB Series](#)) can produce excellent results in bright daylight and sunlight environments.

Sunlight Readable monitors are available in a wide range of screen sizes, from 8.4" to 55". They are available with standard housings, in open-frame configurations, with [touch screens](#) and in [4:3](#) and [16:9](#) aspect ratios.

TRU-Vu provides Sunlight Readable monitors for a wide range of industries and applications, including military, law enforcement, industrial, energy, aviation, marine, aerial photography/surveying, digital signage, outdoor advertising, geophysical, and more.