PolyDisplay®

Managing light

AutoDisplay® Variable Message Signs

Based on EASL DMD™ Polystable LCD Technology



Variable speed limits allow the driver to adapt the speed according to the local traffic situation. Fixed speed limits tend to evoke a behaviour based on the perception that a 100 km/h road, regardless of road, weather and traffic conditions is just that, a road you drive at 100 km/h. By displaying speed limits that truly are adapted to what the drivers perceives as real traffic conditions, we stand a better chance to get them to change attitude and behaviour by showing respect for the displayed variable speed limit and thus improve road safety. Other positive effects are increased accessibility and reduced environmental impact. Systems to this effect have been tested in a number of countries including Norway, Sweden, Finland and UK.

Why install a Variable Speed Limit System?

- Decreases speed by 10%
- Increased respect for mandatory speed limits
- Increased general speed reduction
- Increased spacing between vehicles
- Less accidents
- Less cost for society

Where to install it?

- Severe weather/driving condition areas
- High traffic intensity areas
- Accident prone areas
- Crossings
- Schools
- Road works
- Emergency transports
- Dangerous goods routes
- Incidental time limited events



Local school road RV19
Norway

Features of the EASL DMD™ Technology

- ✓ **Appears as a conventional steel sign, but with programmable dot matrix message (standards conformity)**
- ✓ **Good readability in all lighting conditions due to reflective characteristics**
- ✓ **Excellent readability in direct sunlight**
- ✓ **Very wide viewing angle in all directions**
- ✓ **Optical memory - no power needed to retain image – message remains even at power failure, message alteration can be battery powered, eventually by solar power**
- ✓ **Screen content read-back possibility**
- ✓ **Very low power consumption (consumption only when updating image) - environmental friendly**
- ✓ **Competitive cost of ownership**

PolyDisplay®

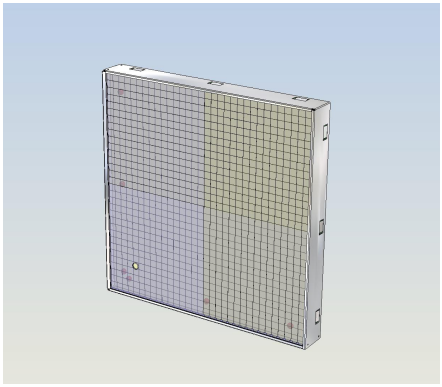
Managing light

Information Display (ID™) modules

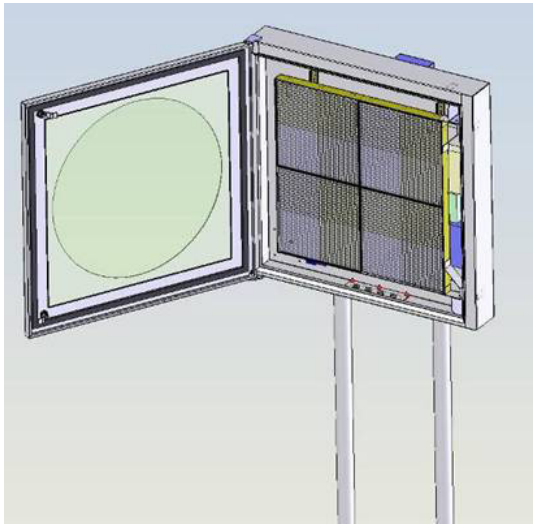
PolyDisplay develops ID™ display modules for use in outdoor information signage: Dynamic Text Signs, Variable Speed Limits and other VMS public message boards.

Dot matrix display layout offers presentation of numbers, characters and graphics.

The ID™ modules are easily tiled to build any size of variable message sign. With available display controllers and power supplies PolyDisplay offers “plug-and-play” functionality.



ID™ ”plug-and-play” module



4 ID™ modules in speed limit sign



Other fonts and background colours can be supplied

Some ID™ module system characteristics

- ✓ Robust design for outdoor environment
- ✓ Built for ease of assembly and interface
- ✓ Adaptable communication/display controller supplied
- ✓ Versatile message control (e.g. by internal clock/calendar or external system using required interface or protocol)
- ✓ Self diagnosis and error messaging possibility
- ✓ Black-on-white and other colour combinations available
- ✓ Anti Glare, Anti Reflective coated surfaces eliminate glare and reflections
- ✓ Wide module operating temperature range -20 to +65 °C without heating or cooling systems

Contact: Dr. Ole Skarin, CEO PolyDisplay ASA • ole.skarin@polydisplay.no • www.polydisplay.no