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# OLED Cluster Displays

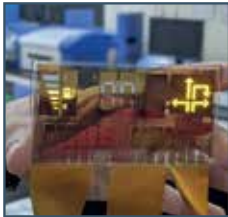


## SPECIFICATIONS:

Diagonal Size	4.5"	Display Type	Segment Type
Total Segments	115	Panel Size (mm)	100 x 55 x 1.5
Voltage	5V-6V	Current	10mA-30mA
Response time	<50 $\mu$ s (-40 $^{\circ}$ C to 85 $^{\circ}$ C)		
Operational lifetime	>30000 h possible		
Color	Yellow, other colors also possible		
Luminance (cd/m <sup>2</sup> )	For 5V 280 cd/m <sup>2</sup> For 5.5V 650 cd/m <sup>2</sup> For 6V 1000 cd/m <sup>2</sup>		
Interface	Manual Switching/ USB Programmable		
Transparency	Non display region is partially transparent		

## OLED CLUSTER DISPLAYS:

Can be made transparent, flexible and can be combined in a single cluster



Transparency



Flexibility



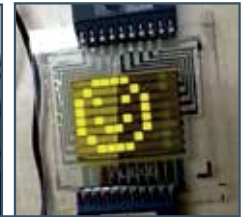
PM OLED



Cluster display



Seven-segment



Dotmatrix

## AUTOMOTIVE APPLICATIONS:



Two Wheelers Clusters

Front Windshield

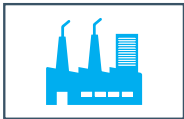
Headup Displays

Console for Four Wheelers

Infotainment

Tail Lamps

## INDUSTRIES:



Industrial



Medical



Railway / Metro



Media / Signages



Consumer / Smartwatches

## FEATURES:

- High brightness compared with LCDs and wider viewing angle ~ 160 °
- Ease of integration compared with LED/LCD cluster - all functionalities can be made in the same fabrication process on a single substrate
- Multicolour possibility
- Very fine segmentation ~ 100 microns
- Alphanumerics, symbols, signs, pictures can be integrated on the same substrate
- Excellent low temperature performance down to -40° C (Suitable especially for two wheelers where the display is exposed to outside temperature)
- Low power consumption-no requirement of backlight
- Cold light source-no heat generation as in LEDs
- Self emitting and highly homogeneous lighting surface without diffusers
- Thin and light weight ~ 1 mm thick
- Can be made flexible and transparent - suitable for mounting on any curved surface
- Integration of navigation function possible using PMOLEDs
- Applications in two wheeler clusters, four wheeler console, front wind shield etc.

Designed and Developed in Collaboration with



National Centre for Flexible Electronics  
Indian Institute of Technology Kanpur

