

MICROOLED Microdisplay-P03

Low voltage technology, excellent image quality & high definition

0.39 Inches with 1044x788 Resolution (3.3M dots)

The MICROOLED MDP03 Microdisplay out performs the competition in picture quality, low power consumption and compactness.





FEATURES

- Excellent Picture Quality
 - Unique Pixel design with 4 sub-pixels (no black matrix) for the brightest images
 - High brightness up to 400 cd/m²
 - Consistent contrast/color over a wide viewing angle even with wide FOV optics

Superior Performance

- Very High Uniformity (>96%)
- Response times well below 1 millisecond for fast moving objects
- Unique auto-adjusting display for constant luminance
- Optimized power consumption for extended battery life

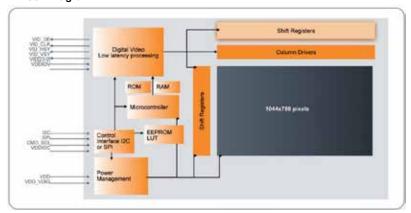
APPLICATIONS

- Defense
- Security
- Sporting

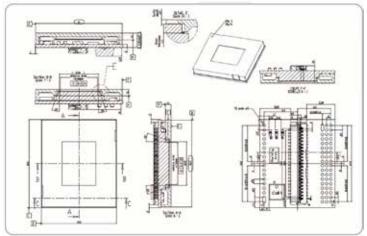


MDP03 SPECIFICATIONS	
RESOLUTION	1024 x 768 (XGA)
PIXEL SIZE	7.6µm x 7.6µm (sub-pixel 3.8µm x 3.8µm)
ACTIVE AREA	7.93 mm x 5.99 mm / 0.39" diagonal
LUMINANCE	Full color RGBWhite : up to 400cd/m²; 117fL
CONTRAST	Typical 10,000:1
VIDEO INTERFACE	Standard digital video interface (RGB 4:4:4, YCbCr 4:2:2)
FRAME RATE	24 to 120 frames per second
CONTROL INTERFACE	I ² C, SPI
NON VOLATILE MEMORY	Embedded non-linear gamma correction and product traceability data
VIDEO PROCESSING	Embedded video processing for a perfect image quality and straightforward system integration
TEMPERATURE SENSOR	Embedded automatic temperature compensation based on a digital sensor in order to keep constant luminance
OPERATING VOLTAGE	Two modes available: - Single supply mode = 2.5V - Li-lon battery compatible - Dual supply mode = 2.5V - Li-lon battery compatible and 1.8V (for lowest power consumption)
VOLTAGE REGULATOR	Voltage regulators and programmable negative cathode voltage generator embedded
POWER CONSUMPTION	200mW in typical video mode
OPERATING TEMPERATURE	-20°C to 50°C
STORAGE TEMPERATURE	-30°C to 70°C
EVALUATION KIT	- Evaluation kit available: reference = MDP03EK3 - Stand alone driver kit

Block Diagram



Mechanical Diagram



For additional information:

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