

Founded in September 1991, Laserdyne Pty Ltd is an Australian engineering and manufacturing company specializing in electro-optic products for military, paramilitary and similar applications in demanding environments. Laserdyne designs, develops and manufactures its own products, and operates a quality management system to the ISO9001 standard. The company supplies Standard and High Definition Flat Panel Displays, Video Recorders, and Laser Rangefinders to its international client base including military, law enforcement and similar customers.

## Flat panel displays

Black Opal displays are engineered for remote/indirect viewing of video images from day, night, and thermal cameras in land, sea and air-borne applications. LED backlighting technology readable from low light to full direct sunlight, and with night vision compatible Night Mode. Truly rugged and suited to military operational environments. EMI/EMC shielding including conductive window coatings. Multiple mounting points/methods. Versatile with respect to input formats, multiple inputs, and on-screen presentation. Compliant with relevant sections of MIL-STD-810, MIL-STD-461, DO-160D, QSTAG 307 applicable to the intended operating environment. No ITAR controlled components.

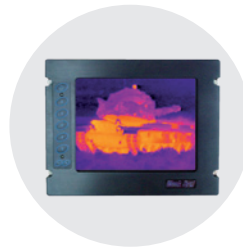


- **Image Enhancement** allows the selected prime video channel to be compensated for obscuration (e.g. rain, fog, dust, snow, mist, smog or smoke) within an adjustable central window where contrast and color are enhanced.
- **Fully interpolated adjustable digital zoom** applies to whichever video input has been assigned to fill the screen. It is a fully X & Y interpolated "smart" zoom, not merely pixel multiplying, yielding a clear zoomed image without the blocky "pixelated" appearance often seen with digital zooming. Zoom range up to 16X (input dependent). This feature can be applied to normal or frozen images.

- **The Freeze Frame** feature freezes the selected prime video channel, while leaving live any video inset. This feature can be applied to normal, zoomed, enhanced or zoomed-&-enhanced images.



- **The Motion Compensation** feature applies to the selected prime video channel, minimising the jagged edges that can occur with motion in video on LCDs. The feature may be manually enabled, or set to auto. In the latter case it is applied whenever the apparent speed of a frame (e.g. when panning) or of an object in a frame (e.g. a vehicle) exceeds a preset threshold.



- **The Pseudo Color** feature applies preloaded color palettes to monochrome imagery:
- **Rainbow** - greyscale to colourscale based on the spectral rainbow (two versions) or Ironbow - greyscale to colorscale based on the color temperature spectrum of iron.



- **The MultiVision** feature provides for multiple video and 1 PC graphics inputs.

A series of screen lay-outs allows the user to view a combination of in/out channels simultaneously at full frame rates. These lay-outs are set up by the installer or by the user and are selected using the system's buttons. Different sizes and positions of Picture-in-Picture (PiP), or mosaic views, may be nominated during set-up. The MultiVision feature is particularly useful for maintaining situational awareness through the monitoring of multiple scenes or of the same scene via different imaging technologies (e.g. when used with imaging systems that combine thermal and "day" cameras).

- **Chroma Keying** (overlying) capability is provided.
- **Custom design** and different options (model dependent) are available such as touch-screen, MIL spec mounting bracket, Multi-function (extra) buttons, Internal Recording Facility, in-built Single Board Computer.



#### Xtreme Mini 6

- 6.4" 4:3 LED backlit LCD
- 1,024 pixels x RGB x 768 lines (XGA)
- 24 bit (16M) color scale, 8 bit (256) grey scale
- Dimensions in mm: W 170 x H 145 x D 80.9 ; 1.4 kg
- Input: up to 14 analog + up to 2 SDI
- Display: up to 6 channels simultaneously
- Output: up to 2 SDI + 1 analog video
- Air and Land versions available



#### Xtreme 12

- 12.1" 4:3 LED backlit LCD
- 1,024 pixels x RGB x 768 lines (XGA)
- 18 bit (262k) color scale, 8 bit (256) grey scale
- Dimensions in mm: W 293.5 x H 249.1 x D 67.5 ; 3.3 kg
- Input: up to 14 analog + up to 2 SDI
- Display: up to 6 channels simultaneously
- Output: up to 2 SDI + 1 analog video
- Air and Land versions available



#### Xtreme 15

- 15" 4:3 LED backlit LCD
- 1,024 pixels x RGB x 768 lines (XGA)
- 24 bit (16M) color scale, 8 bit (256) grey scale
- Dimensions in mm: W 366.1 x H 296 x D 75.1 ; 4.7 kg
- Input: up to 14 analog + up to 2 SDI
- Display: up to 6 channels simultaneously
- Output: up to 2 SDI + 1 analog video
- Air and Land versions available



#### Xtreme 19

- 19" 5:4 LED backlit LCD
- 1,280 pixels x RGB x 1,024 lines (SXGA)
- 24 bit (16M) color scale, 8 bit (256) grey scale
- Dimensions in mm: W 445 x H 365.5 x D 83.9 ; 7.6 kg
- Input: up to 14 analog + up to 2 SDI
- Display: up to 6 channels simultaneously
- Output: up to 2 SDI + 1 analog video
- Air and Land versions available



#### D15UW

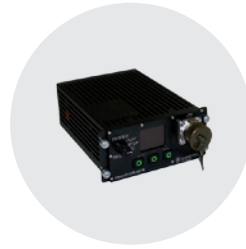
- 15.4" 16:10 LED backlit LCD
- 1,900 pixels x RGB x 1,200 lines (WUXGA)
- 18 bit (262k) native, 21 bit (2M) dithered color scale; 6 bit (64) native, 8 bit (256) dithered grey scale
- Dimensions in mm: W 414 x H 293 x D 79 ; 6 kg
- Input: up to 4 3G-SDI, 4 analog
- Display: up to 2 channels simultaneously
- Output: up to 2 3G-SDI



#### Solid state video recorders

##### MemorEyes models feature:

- record to fixed internal, or removable (MemorEyes-to-Go), storage media;
- record full High Definition or Standard Definition video;
- audio recorded with video;
- time and date stamping;
- recorded video tagged for selective or full download - all files are contiguous (no frames are lost between files);
- user initiated Event-marking creates files around events of interest;
- graphic user interface (or can be remotely operated via Black Opal displays);
- web-page-based interface for configuration;



#### MemorEyes HD

- Multiple video connections
- Single channel recording
- Capacity: 6 hours of HD video with audio
- Approx. size & mass: W 146 x H 66.7 x D 177.5 mm; 1.3 kg
- Sealed housing



#### MemorEyes 3G

- Multiple video connections
- Dual channel (simultaneous) recording
- Capacity: 6 hours of 3G HD video with audio
- Simultaneous playback and record
- Approx. size & mass: W 146 x H 66.7 x D 177.5 mm; 1.3 kg
- Sealed housing



Australia  
Office

Gold Coast, Queensland

T +6 148 886 4005  
info@ipppty.com

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or contact details on our local offices across Europe.