

# MICRO-FOURSIGHT

Ultra Compact Video Quad

## Key features:

- Specifically designed for surveillance monitoring applications.
- Allows up to four cameras to be viewed on one screen.
- Small compact size, ideal for ultra-covert and mobile installations.
- DC powered with low current consumption (~140mA at 12V).
- 16 preset display modes which are fully configurable via PC utility and USB/ RS232 control interface.
- On-screen date & time and camera ident.
- Automatic configuration for PAL or NTSC video inputs.



## Ultra compact video quad display system

micro-FourSight is an ultra compact quad, specifically designed for surveillance monitoring applications and allows up to four cameras to be viewed on one screen.

Unlike most quads, micro-FourSight is very compact, lightweight and power efficient. micro-FourSight's advanced digital video processing provides full control of each picture's size and position together with picture cropping and overlay. For ease of use the system includes 16 pre-set display modes, which can be reconfigured via its USB/RS232 control ports and optional PC configuration utility. micro-FourSight provides excellent picture quality coupled with real-time update rate per channel. Camera ident, plus date and time are shown onscreen, which again are fully configurable via the control ports.

micro-FourSight will operate with almost any video source, automatically configuring itself for PAL or NTSC operation. For OEM applications, the system may be supplied as a unit or PCB, together with full support for interfacing to the product's USB/Serial control protocol.

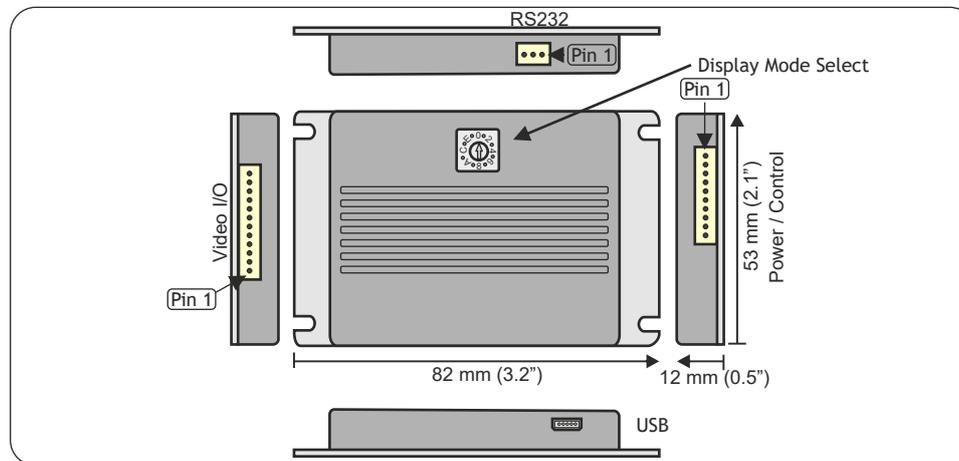
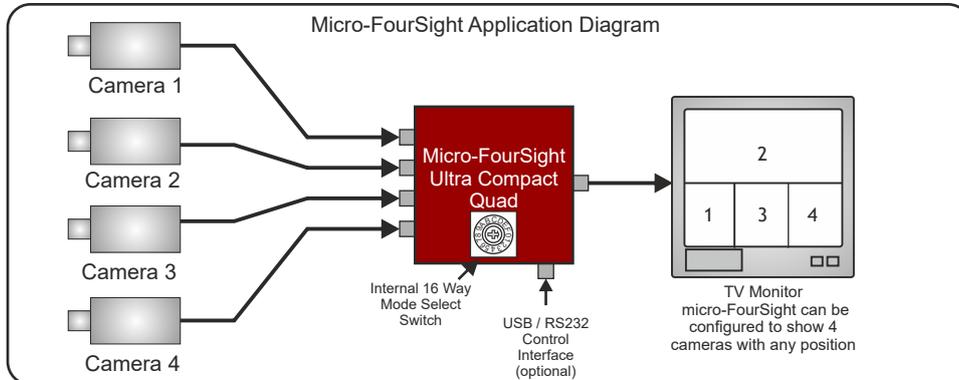


micro-FourSight-Side View



micro-FourSight-Front View





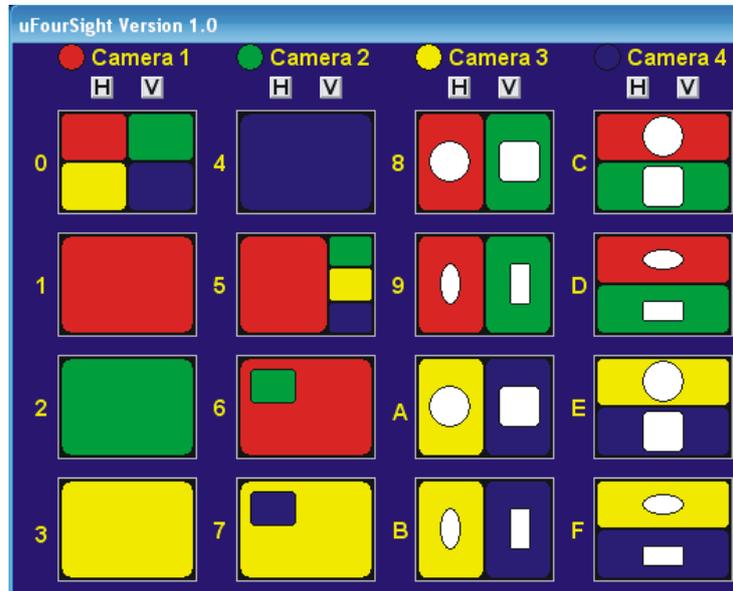
| Video I/O           | RS232 | Power / Control            |
|---------------------|-------|----------------------------|
| 1 Video Out         | 1 TXD | 1 DC In 5 to 28 V          |
| 2 Gnd               | 2 GND | 2 DC In 5 to 28 V          |
| 3 <b>Video Out</b>  | 3 RXD | 3 Gnd                      |
| 4 Video Gnd-4       |       | 4 Gnd                      |
| 5 <b>Video In-4</b> |       | 5 Green LED                |
| 6 Video Gnd-3       |       | 6 Red LED                  |
| 7 <b>Video In-3</b> |       | 7 Control HEX SW / Buttons |
| 8 Video Gnd-2       |       | 8 Control Common           |
| 9 <b>Video In-2</b> |       | 9 Control bit 4            |
|                     |       | 10 Control bit 3           |
|                     |       | 11 Control bit 2           |

Connector Type: 1.25mm SIL header, Mates with Molex 51021 series (supplied with unit to 150mm open wires)

| Outline Specification       |   |                            |                                 |
|-----------------------------|---|----------------------------|---------------------------------|
| <b>General:</b>             |   | <b>Video:</b>              |                                 |
| Operating temperature range | -20 to +65°C                                    | Video standards supported  | PAL/NTSC (auto / manual config) |
| Mechanical size (housed)    | 82 x 53 x 11.5 mm                               | Video Input /Output Levels | 1 Vpp into 75R                  |
| Finish                      | Hard anodised aluminium                         | Video bandwidth            | 4MHz @-1dB                      |
| Weight (Housed)             | 60 g  | Signal to noise ratio      | 5.35 MHz @ -3dB                 |
| Operating voltage range     | 5 to 28 V DC                                    | AGC Pulling range          | > 60 dB weighted                |
| Power consumption           | < 2 Watts                                       | Digital sampling           | > ± 15%                         |
| Current consumption at 12 V | 140 mA (approx.)                                |                            | PAL: 576 lines by 720 pixels    |
| Standard accessories        | User guide, mating connectors with 50 mm leads. |                            | NTSC: 480 lines by 720 pixels   |
| Optional accessories        | 1) PC Software,                                 | Lock-in time               | < 1 second                      |

## Default Display Modes

The diagram and table below show the micro-FourSight's default display modes. These can be altered to any format of 1 to 4 pictures on one screen (with programmable scale, crop and position) using the optional PC



| Preset | Mode  | Preset | Mode   |
|--------|---|--------|--|
| 0      | Quad – 1:1 aspect ratio   | 8      | Camera's 1 & 2 cropped to centre section and displayed side by side        |
| 1      | Camera 1 full screen  | 9      | Camera's 1 & 2 horizontally scaled and displayed side by side              |
| 2      | Camera 2 full screen  | A      | Camera's 3 & 4 cropped to centre section and displayed side by side        |
| 3      | Camera 3 full screen  | B      | Camera's 3 & 4 horizontally scaled and displayed side by side              |
| 4      | Camera 4 full screen  | C      | Camera's 1 & 2 cropped to centre section and displayed one above the other |
| 5      | Camera 1 horizontally scaled by 2/3 plus 3 1/3 size images down right hand side | D      | Camera's 1 & 2 vertically scaled and displayed one above the other         |
| 6      | Camera 1 full screen plus camera 2 as a 1/3 PiP in top left corner              | E      | Camera's 3 & 4 cropped to centre section and displayed one above the other |
| 7      | Camera 3 full screen plus camera 4 as a 1/3 PiP in top left corner              | F      | Camera's 3 & 4 vertically scaled and displayed one above the other         |

### Part Numbers:

|           |  |
|-----------|--|
| MF1B-5453 | micro-FourSight high-quality advanced video quad display module supplied with carry case and break out PCBs and software USB |
| MF1B-5473 | micro-FourSight high-quality advanced video quad display module supplied with break-out PCBs. No carry case or software.     |
| MF1B-5457 | micro-FourSight high-quality advanced video quad display module supplied as OEM unit with flying leads.                      |

**Please note:** Ovation Systems reserves the right to change specifications without notice. E&OE



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