Ultra compact video quad display system

> **Specifically designed for surveillance monitoring applications**

> **Allows up to four cameras to be viewed on one screen**

> **Small compact size and power efficient makes it ideal for ultra-covert and mobile installations**

> **Choice of 16 user configurable display modes**

> **Excellent picture quality with real-time update rate per channel**

> **Automatic configuration for PAL or NTSC video inputs**

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 optionally reconfigured via its RS232 port and PC configuration utility. Micro-FourSight provides excellent picture quality coupled with real-time update rate per channel.

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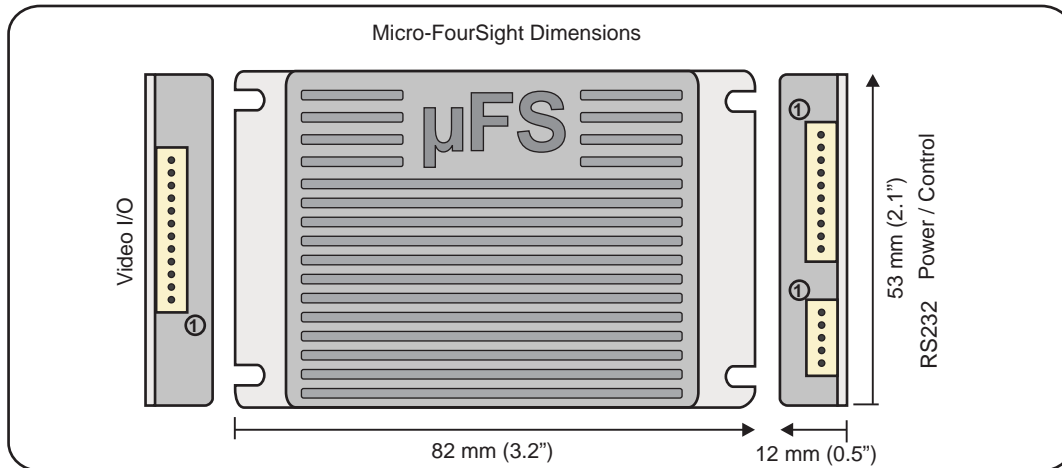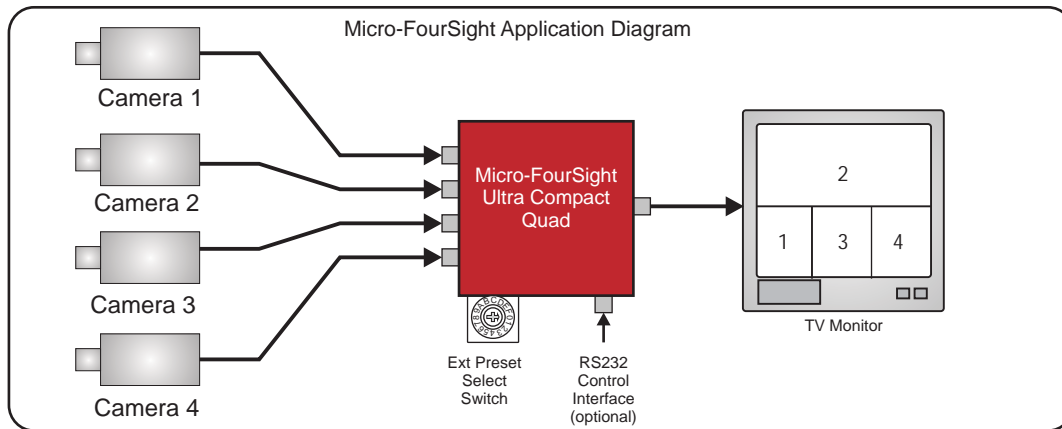
For OEM applications, the system may be supplied as a unit or PCB, together with full support for interfacing to the product's serial control protocol.

Side view - actual size

Front view - actual size

Micro-FourSight Application Diagram

Camera 1

Camera 2

Camera 3

Camera 4

Micro-FourSight
Ultra Compact
Quad

Ext Preset
Select
Switch

RS232
Control
Interface
(optional)

2

1 3 4

TV Monitor

Micro-FourSight Dimensions

μFS

Video I/O

①

①

①

53 mm (2.1")   RS232   Power / Control

82 mm (3.2")

12 mm (0.5")

Video I/O		RS232		Power / Control	
1	Video Out Gnd	1	Gnd	1	DC In 5 to 28 V
2	**Video Out**	2	RXD	2	DC In 5 to 28 V
3	Video Gnd-4	3	TXD	3	Gnd
4	**Video In-4**	4	N/C	4	Gnd
5	Video Gnd-3	5	TBA	5	Green LED
6	**Video In-3**			6	Red LED
7	Video Gnd-2			7	Control HEX SW / Buttons
8	**Video In-2**			8	Control Common
9	Video Gnd-1			9	Control bit 4
10	**Video In-1**			10	Control bit 3
				11	Control bit 2
				12	Control bit 1

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

Outline Specification

General:

Operating temperature range	-20 to +65°C
Mechanical size (housed)	82 x 53 x 11.5 mm
Finish	Hard anodised aluminium
Weight (Housed)	60 g
Operating voltage range	5 to 28 V DC
Power consumption	< 2 Watts
Current consumption at 12 V	140 mA (approx.)
Standard accessories	User guide, mating connectors with 50 mm leads.
Optional accessories	1) PC Software, RS232C cable
2) Video Breakout PCBs

Video:

Video standards supported	PAL/NTSC (auto / manual config)
ideo Input /Output Levels	1 Vpp into 75R
Video bandwidth	4MHz @-1dB
5.35 MHz @ -3dB
Signal to noise ratio	> 60 dB weighted
AGC Pulling range	> $\pm$ 15%
Digital sampling	PAL: 576 lines by 720 pixels
NTSC: 480 lines by 720 pixels
Lock-in time	< 1 second
Input camera gen-lock	Not required
Number of input channels	4
Preset-display modes	16 via external switch
+ 176 via RS232
Update rate per image	Real-time

MF1B-5418	Micro-FourSight high-quality advanced video quad display module
MF1A-5442	Micro-FourSight break-out PCB set
MF1A-5443	Micro-FourSight PC Configuration software CD and RS 232 programming cable

Please note, the above information is **preliminary** and Ovation Systems reserves the right to change specifications without notice. E&OE.

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