


UC-381

## Open frame 3.8 inch colour video module

Data for this display is currently available as a multi-page  [TIFF](#) file. Please [click here](#) to view or download it.

You can use Microsoft's "Imaging" software provided with Windows 98 or Windows NT to view a multi-page TIF file or any fax viewing software. If you can only view ONE page, then your particular software doesn't support multi-page TIF files. You may need to "Save As..." this file to disk and manually load it in to the Imaging software that supports multi-page TIF files..

### Display Composition

Model number	UC-381
Type	Colour filter TN (Twist Nematic) transmissive type negative display
Pixel format	240 x 3 ( RGB ) x 130
Driving method	RGB-Sync input signal
Backlight	Single tube, back-lit, fluorescent tube with diffuser and integrated inverter
Video format	PAL format; NTSC versions available.
Input signal	R,G,B - 1.4volts peak-to-peak, Sync - composite - positive, normal TTL logic levels (5 volts)

### Overview

Designed specifically for displaying video images from sources such as video recorders and camcorders, door security systems, CCD cameras or even hand-held games, Citizen's range of liquid crystal video modules all make use of "Chip-On-Glass" ( C.O.G. ) technology providing the following advantages:-

- High contrast image
- Clearer, brighter colours
- Excellent picture definition
- Compact, lightweight and robust design

Together with the combination of C.O.G. technology, the fast fluid liquid crystal and low resistivity I.T.O. (Indium-Tin Oxide) electrodes ensure that the image on the display is high quality and high contrast making it extremely clear and easy to see.

## □ Optical Characteristics at 25°C

Item	Symbol	Typical	Unit	Condition
Turn on time	TON	120	ms	q=0°, f=0°
Turn off time	TOFF	120	ms	q=0°, f=0°
Contrast ratio	CR	6	-	q=0°, f=0°
Visual range ("up & down")	q1	0<q1<+30	degrees	q=0°, CR > 2
Visual range ("left & right")	q2	-40<q2<+40	degrees	f=90°, CR > 2

## □ Electrical Characteristics

Item	Minimum	Typical	Maximum	Unit
Supply voltage	4.75	5.00	5.25	V dc
Current consumption	-	400	450	mA

## □ Temperature Range

Item	Minimum	Maximum	Unit
Storage temperature	- 25	+ 60	°C
Operating temperature	0	+ 40	°C

## □ Mechanical Specifications

Weight: 160 grams

## □ Connection Details

Connection to the UC-381 module is by means of a 9-way data connector on the PCB.

### Pin Function

- 1 Brightness - High End
- 2 Brightness - Adjust
- 3 Brightness - Low End
- 4 Composite Sync
- 5 Blue In

- 6 Red In
- 7 Green In
- 8 VDD
- 9 GND