

AUM-1371A



THE FINEST MONITOR PERFORMANCE FOR ALL APPLICATIONS

 $5.75 \, \mathrm{kHz}$





Communications

With the increasing popularity of video-text type communication systems and home automation, the AUM-1371A takes on another important role. It is directly compatible with such systems, and eliminates the need for several monitors.

4. TENNIS S. SWIMMING PUSH RETURN KEY....NEXT



High-quality graphics applications generally employ high horizontal scanning rates in the 20 kHz to 35 kHz range. The AUM-1371A is compatible with a broad range of graphic controllers, and offers the superb resolution and performance demanded by professional CAD applications.



15.6~35kHz

Personal Computer Display

The many personal and business computers available often have differing video output formats and scanning frequencies. The AUM-1371A will handle just about any personal computer video signal, while providing a crisp, high-quality display. Typically, the AUM-1371A can be used as a color display monitor for IBM® PC with CGA/EGA/PGC, and also as a monochrome display monitor for IBM® PC.

Industrial Applications

The AUM-1371A's ability to lock onto a broad range of scanning frequencies makes it ideal for use with NC machines, medical equipment and measuring instruments employing special scanning frequencies.

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RGB INPUT TERMINALS



1	Sync. GND				
2	Red video	0.6 Vp-p 75 obms Positive			
3	Red video GND	0.6 Vp-p 75 onms Positive			
4	Green video	Névo-n 75 ohms Positive			
5	Green video GND	U.6 Vp-p /5 ohms Positive			
6	Superimpose control	Low: $0 \sim 0.4 V$ Composite video			
7	Superimpose control GND	75 ohms High speed switching			
8	Video input select	Low or open : BNC input video High : #9 video			
9	Comp. video in				
10	Comp. video in GND	1.0 Vp-p /5 ohms Sync. negative			
11	Comp. video out	10 Vin-n 75 ohms Sync pegative			
12	Comp. video out GND	1.0 vp-p /5 onms sync. negative			
13	PGA mode control	Low : 400 lines, High or open : 480 lines			
14	Blue video	0.6 Vp-p 75 obms Positive			
15	Blue video GND				
16	Horizontal Sync.	TTL level Positive/Negative			
17	Vertical Sync.	TTL level Positive/Negative			
18	TTL color select	Low : 16 colors, High or open : depends on EGA card			
19	NC				
20	NC				
21	INT	(5V)			
22	Comp./RGB select	Low : RGB, High : composite			
23	Analog/TTL select	Low : TTL, High : Analog			
24	Remote	Low : Mode Switch is invalid			
25	GND (shield)				

100	COLOR	GRAPHICS TTL 16 COLORS
	Input signal	Polarity
1	GND	a contract to service a state of the
2	Unused	
3	Red video	TTL positive
4	Green video	TTL positive
5	Blue video	TTL positive
6	Intensity	TTL positive
7	Unused	
8	H-sync	TTL positive
9	V-sync	TTL positive

D-SUB 9 PIN ASSIGNMENTS AND SIGNAL LEVELS

	ENHANCED GRAPHICS TTI	L 16/64 COLORS
	Input signal	Polarity
1	GND	
2	Secondary Red video	TTL positive
3	Primary Red video	TTL positive
4	Primary Green video	TTL positive
5	Primary Blue video	TTL positive
6	Secondary green video/Intensity TTL positive	
7	Secondary blue video	TTL positive
8	H-sync	TTL positive
9	7 V-sync TTL negative	

	MC	DNOCHROME		
	Input signal	Polarity		
1	GND			
2	Unused			
3	Unused			
4	Unused			
5	Unused			
6	High Intensity			
7	Video	TTL positive		
8	H-sync	TTL positive		
9	V-sync TTL negative			



TIMING CHART

SEPARATE SYNC.



TIMING EXAMPLE

	fll	15.75 KHz	18.4 KHz	21.8 KHz	31.25 KHz
Horizontal	A μs	63.78	54.34	45.75	32
	B μs	4.45	8.29	4.92	5.12
	C µs	8.03	1.49	1.65	0.64
	D µs	44.69	44.21	39.36	25.6
Vertical	E ms	16.68	20.04	16.75	16.67
	F ms	0.19	0.86	0.59	0.51
	Gms	2.11	0.13	0.1	0.31
	H ms	12.75	19.02	16.01	15.45

SPECIFICATIONS

Brightness, Contrast Power ON/OFF switch (Power ON Indicator)
13″V
In-line (multi-step focus)
90°
0.31 mm
P22 medium-short
Super-High Contrast glass (selective light absorption), non-glare Diamond Matte coating
Composite video (Mode A) RGB TTL (Mode B) RGB Analog (Mode C) Monochrome TTL (Mode D)

All pictures simulated.



TIMING	FXAMPLE
THIN TO	EVO UVII EE

	fll	30.5 KHz
Horizontal	A μs	32.7
	Bμs	4.48
	C µs	2.36
	D µs	25.66
Vertical	E ms	16.65
	Fms	0.06
	Gms	0.81
	H ms	15.67

SCANNING FREQUENCY NTSC (Mode A) Modes B, C, D VIDEO BANDWIDTH RESOLUTION (H x V) Mode A Modes B, C DISPLAY SIZE NTSC (Mode A) Modes B, C MISCONVERGENCE Center Corner POWER SUPPLY Voltage Power Consumption

WEIGHT

fH = 15.75 kHz, fV = 60 HzfH = 15.6 - 35.0 kHz, fV = 45 - 75 Hz 30 MHz (min.)

300 dots × 500 lines $800 \text{ dots} \times 560 \text{ lines}$

Over-Scan Adjustable (external control)

0.4 mm max. 0.6 mm max.

AC 120 V, 60 Hz 90 W 12 kg (26.5 lb)

ADVANCED TECHNOLOGY AND FEATURES

Horizontal and Vertical Auto-scanning

Many of the newer monitors available boast switchable horizontal scanning frequencies to accommodate different sources. Some even automatically select the proper frequency. None, however, automatically lock onto any scanning frequency within a broad range like the AUM-1371A does.

An original Mitsubishi PLL (Phase-Locked Loop) autoscanning circuit automatically locks onto any horizontal frequency from 15.6 kHz to 35 kHz, and any vertical frequency from 45 Hz to 75 Hz. This high-performance system also features a fast response time and permits easy sync adjustments. All you have to do is connect the source signal and the AUM-1371A does the rest.

Broad Input Compatibility

In addition to a standard composite video input (Mode A), the AUM-1371A offers RGB TTL (Mode B), RGB Analog (Mode C) and Monochrome TTL (Mode D) inputs with standard connector types. This gives you full plug-in compatibility with virtually any video source signal, providing immediate, trouble-free access to an exceptionally broad range of applications.

Superimpose Capability

NTSC video pictures can be overlayed with computer text and graphics via the RGB analog unit. (In this case, the superimpose control signal should be derived from a personal computer.)

Remote Mode Control of Selecting Input Signals

Normally, each input signal is

selected by means of the Input Signal Select Switch. It can also be selected electrically, however. In this case, each input signal can be selected by putting Pins No. 22, 23, and 24 of the D-Sub 25-pin Connector to the condition shown in the table below.

D-Sub 25-Pin Assignment

Pin No.).	Conceptioned in a	
22	23	24	Specification	
0	0	0	Dependent on ISSS	
0	0/G	G	Composite/Superimpose	
G	0	G	RGB Analog	
G	G	G	RGB TTL	
Not	0.100	C	Input Cianal Coloct Switch	

Note: ISSS = Input Signal Select Switch 0 = Open G = Ground

For Use as IBM® Monochrome Monitor

Set Monochrome switch to the Monochrome side when the unit is to be used in the monochrome mode of IBM® PC.

The Super-High Contrast (SHC) Glass

The Mitsubishi SHC glass incorporates a specially developed panel glass which aoes way beyond conventional neutral-density panels in improving image quality. It features selective light-transmission characteristics that effectively control the spectra emitted by the CRT phosphors. The result is exceptionally clean, true primary colors and natural overall color balance. A second advantage of the SHC glass that the panel absorbs ambient light both on entry and on reflection from the phosphor screen. This dramatically improves contrast and visibility even in brightly lit rooms.

Diamond Matte (DM) Coating

The Mitsubishi DM coating has been specifically designed to improve resolution while providina maximum alare reduction. Particulate silica is chemically deposited on the CRT surface through a special process, forming a durable, permanently bonded coating of amorphous silica. The DM coating is strong enough to withstand scratches as well as most chemicals. The resultant surface is smooth so scattering is eliminated, and it helps to suppress static buildup. Anyone who uses a video display terminal for extended periods will really appreciate the significant reduction in eye fatigue provided by the DM coating.

Scan Mode Switch

For the medium frequency range of 18 kHz to 25 kHz, a selection can be made by this switch between the Underscan and the Over-scan phases. (Under-scan refers to a smaller-size display area.)

Compact Cabinet with newly designed Tilt and Swivel base



 -5° to $+15^{\circ}$ Vertical -45° to $+45^{\circ}$ Horizontal



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