

Factory Preset Timings Chart

	VGA(640*400)	VGA(640*480)	SVGA(800*600)
DOT CLOCK	25.175MHz	25.175MHz	49.5MHz
H fh	31.47KHz	31.47KHz	46.875KHz
O A-Period	31.778us(800 dots)	31.778us(800 dots)	21.333us(1056 dots)
R B-Blanking time	6.356us(160dots)	6.356us(160dots)	5.172us(256dots)
I C-Sync width	3.813us(96dots)	3.813us(96dots)	1.616us(80dots)
Z D-Back porch	1.907us(48dots)	1.907us(48dots)	3.232us(160dots)
E-Active time	25.422us(640dots)	25.422us(640dots)	16.161us(800dots)
V fv	70.087Hz	59.94Hz	75Hz
E A-Period	4.286ms(449lines)	16.684ms(525lines)	13.333ms(625lines)
R B-Blanking time	1.557ms(49lines)	1.430ms(45lines)	0.533ms(25lines)
T C-Sync width	0.064ms(21lines)	0.064ms(21lines)	0.064ms(31lines)
D-Back porch	1.112ms(35lines)	1.049ms(33lines)	0.448ms(21lines)
E-Active time	12.711ms(400lines)	15.253ms(480lines)	12.8ms(600lines)
Sync polarity(H/V)	Positive/Negative	Negative/Positive	Positive/Positive

	SVGA(800*600)		
DOT CLOCK	36.000MHz	40.000MHz	50.000MHz
H fh	35.156KHz	37.879KHz	48.08KHz
O A-Period	28.444us(1024 dots)	26.400us(1056 dots)	20.800us(1040 dots)
R B-Blanking time	6.222us(224dots)	6.400us(256dots)	4.800us(240dots)
I C-Sync width	2.000us(72dots)	3.200us(128dots)	2.400us(120dots)
Z D-Back porch	3.556us(128dots)	2.200us(88dots)	1.280us(64dots)
E-Active time	22.222us(800dots)	20.000us(800dots)	16.000us(800dots)
V fv	56.250Hz	60.317Hz	72.18Hz
E A-Period	17.778ms(625lines)	16.597ms(628lines)	13.853ms(525lines)
R B-Blanking time	0.711ms(25lines)	0.739ms(28lines)	1.373ms(66lines)
T C-Sync width	0.057ms(2lines)	0.106ms(4lines)	0.125ms(6lines)
D-Back porch	0.626ms(22lines)	0.607ms(23lines)	0.478ms(23lines)
E-Active time	17.067ms(600lines)	15.840ms(600lines)	12.480ms(600lines)
Sync polarity(H/V)	Positive/ Positive	Positive/ Positive	Positive/ Positive

Operation Manual

Multi-frequency

Color Monitor

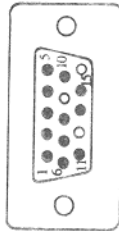
When you use the monitor, please read this manual firstly before install and operation.

CNA019-Z20

Factory Preset Timings Chart

Pin Assignment

- | | | |
|----------|-----------------|-----------------------|
| 1.Red | 6.R-Ground | 11.Ground |
| 2.Green | 7.G-Ground | 12.No Connection(SDA) |
| 3.Blue | 8.B-Ground | 13.H-Sync |
| 4.Ground | 9.No Connection | 14.V-Sync |
| 5.Enable | 10.Ground | 15.No Connection(SCL) |



Attachment

1. What is magnetic Field?

The earth is big magnet. Magnetic pole is seat near the South Pole and the North pole. Magnetic field is expressed by three weith x,y,z. As figure, X,Y is respectively horizontal weight of toward the north and the east. Z is vertical weight of downward. Generally, We convert them into B.H and BV. The most intensity of magnetic field is in the South Pole and the North Pole.

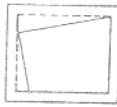
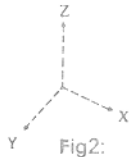


Fig3: Tilt

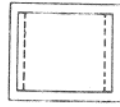
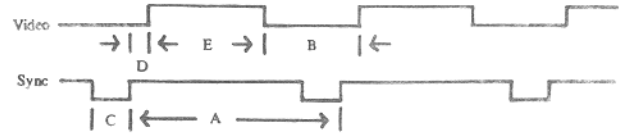


Fig4: Shift

2. The relation and influence between monitor and magnetic field.

In order to achieve the deflection scanning that the monitor let the sawtooth wave current throught deflection Yoke to generate magnetic field of the earth. It could result in the tilt and shift phenomenon. Especially, it often result in the mistake selection color in the color monitor. The color purity will be lowered. Generally, tilt and shift test distinguish from the east, south west and north. We know toward the west is the best condition, because it interferes with the monitor is the smallest.



		1024*768 Non-interlace		STD(1280*1024)
	DOT CLOCK	65.000MHz	75.000MHz	110.00MHz
H	F h	48.363KHz	56.476KHz	63.99KHz
O	A-Period	20.677us(1344dots)	17.707us(1328dots)	15.625us(1769dots)
R	B-Blanking time	4.923us(320dots)	4.054us(304dots)	4.000us(440dots)
I	C-Sync width	2.231us(105dots)	1.813us(136dots)	1.600us(176dots)
Z	D-Back porch	1.615us(145dots)	1.920us(144dots)	2.064us(227dots)
	E-Active time	15.754us(1024dots)	13.653us(1024dots)	11.625us(1279dots)
V	F v	60.004Hz	70.069Hz	59.973Hz
E	A-Period	16.666ms(806lines)	14.272ms(806lines)	16.670ms(1067lines)
R	B-Blanking time	0.786ms(38lines)	0.673ms(38lines)	0.670ms(43lines)
T	C-Sync width	0.124ms(6lines)	0.106ms(6lines)	0.047ms(3lines)
	D-Back porch	0.600ms(29lines)	0.513ms(29lines)	0.594ms(38lines)
	E-Active time	15.880ms(768lines)	13.599ms(768lines)	16.000ms(1024lines)
Sync polarity(H/V)		Negative/Negative	Negative/Negative	Positive/Positive

FCC information:

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

This Equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and device.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

SAFETY INFORMATION

bei Geräten mit Steckanschluß die Steckdose nahe dem Gerät angebracht und leicht zugänglich sein muß.

NOTE1 Under the information of FCC is fit for the model with FCC approval

NOTE2 Under the information of safety is suitable for the model with safety approval

Model with power saving function

1. When monitor is powered on without connection signal cable to pc or monitor powered on after connecting to a powered off pc, monitor will be at burn in mode. (Raster Scan) at this case LED is green.
2. When monitor signal cable is connected to a powered on pc, it will stay on state or stand by state until pc is switched to sleep mode or pc is powered off or monitor is disconnected to pc. At this case monitor automatically transfers to suspend state (Power Saving) and LED changes to amber.
3. When pc is recovered from sleep mode, (by touching keyboard, mouse etc.) monitor will be recovered to normal operation too.

Indicator:

Power on indicator is dual color:

Green indicates normal operation.

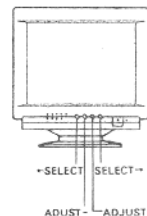
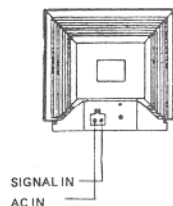
Amber indicates power saving mode.

Power consumption:

Power is reduced to be less than 30W at power saving mode and meet United States "EPA" energy star requirement.

OPERATION AND ADJUSTMENT

MW4SK/MW5SK/MW7SK/MW7SL



(continued)

OSD	640 × 400					— Timing
	H: 31.2KHz V: 70Hz					
						— Function menu
					R G B	

Press '◀', '▶' to chose function you need
Press '+', '-' to change the value of the function
R:R-gain, adjust the color weight for red independently
G:G-gain, adjust the color weight for green independently
B:B-gain, adjust the color weight for blue independently
NOTE: Press the SELECT ◀ and ADJUST- buttons
Simultaneously activates the recall function.

MODEL	MW75K/MW75L(OSD)
Picture Tube	17-inch flat square non-glare dark-tinted antistatic
Dot Pitch	0.27mm
Input signal	Video : R, G, B analog Sync : H, V, separate sync
Synchronization	
Horizontal	31~64KHz
Vertical	50 to 90 Hz
Video resolution	1280*1024 non-interface
Video bandwidth	110MHz(-3db)
Display size	310*230mm Full-scan adjustable
Power supply	100~240VAC 60/50Hz Universal
Power consumption	80 maximum
Power saving	Standard
User controls (OSD)	POWER SWITCH, CONTRAST, BRIGHTNESS, H-PHASE H-SIZE V-CENTER V-SIZE SIDE-PIN, (V-HOLD) (R, G, B)
Operating Environment	Temperature: 0°C to 40°C, Humidity: 20% to 80%

NOTE: Please test the above models via display card ASUS AGPV3800M to see the quality of the screen. If there is something the matter With anyone please elect that one to be the standard of test.