2. Reference Information

2-1 Tables of Abbreviations and Acronyms

	Table 2-1 Abb	reviations		
А	Ampere	MV	Megavolt	
Ah	Ampere-hour	MW	Megawatt	
Å	Angstrom	MΩ	Megohm	
dB	Decibel	m	Meter	
dBm	Decibel Referenced to One	μΑ	Microampere	
	Milliwatt	μF	Microfarad	
°C	Degree Celsius	μH	Microhenry	
°F	Degree Fahrenheit	μm	Micrometer	
°K	degree Kelvin	μs	Microsecond	
F	Farad	μW	Microwatt	
G	Gauss	mA	Milliampere	
GHz	Gigahertz	mg	Milligram	
g	Gram	mH	Millihenry	
Н	Henry	ml	Milliliter	
Hz	Hertz	mm	Millimeter	
h	Hour	ms	Millisecond	
ips	Inches Per Second	mV	Millivolt	
kWh	Kilowatt-hour	nF	Nanofarad	
kg	Kilogram	Ω	Ohm	
kHz	Kilohertz	pF	Picofarad	
kΩ	Kilohm	lb	Pound	
km	Kilometer	rpm	Revolutions Per Minute	
km/h	Kilometer Per Hour	rps	Revolutions Per Second	
kV	Kilovolt	S	Second (Time)	
kVA	Kilovolt-ampere	V	Volt	
kW	Kilowatt	VA	Volt-ampere	
	Liter W	W	Watt	
MHz	Megahertz	Wh	Watt-hour	

	Table 2-2 Table		
ABL	Automatic Brightness Limiter	I/0	Input/output
AC	Alternating Current	L	Left
ACC	Automatic Chroma Control	L	Low
AF	Audio Frequency	LED	Light Emitting Diode
AFC	Automatic Frequency Control	LF	Low Frequency
AFT	Automatic Fine Tuning	MOSFET	Metal-Oxide-Semiconductor-Field-Effect-
AGC	Automatic Gain Control	MTS	Multi-channel Television Sound
AM	Amplitude Modulation	NAB	National Association of Broadcasters
ANSI	American National Standards Institute	NEC	National Electric Code
APC	Automatic Phase Control	NTSC	National Television Systems Committee
APC	Automatic Picture Control	OSD	On Screen Display
A/V	Audio-Video	PCB	Printed Circuit Board
AVC	Automatic Volume Control	PLL	Phase-Locked Loop
BAL	Balance	PWM	Pulse Width Modulation
BPF	Bandpass Filter	QIF	Quadrature Intermediate Frequency
B-Y	Blue-Y	R	Right
CATV	Community Antenna Television (Cable TV)	RC	Resistor & Capacitor
СВ	Citizens Band	RF	Radio Frequency
CCD	Charge Coupled Device	R-Y	Red-Y
CCTV	Closed Circuit Television	SAP	Second Audio Program
Ch	Channel	SAW	Surface Acoustic Wave(Filter)
CRT	Cathode Ray Tube	SIF	Sound Intermediate Frequency
CW	Continuous Wave	SMPS	Switching Mode Power Supply
DC	Direct Current	S/N	Signal/Noise
DVM	Digital Volt Meter	SW	Switch
EIA	Electronics Industries Association	TP	Test Point
ESD	Electrostatic Discharge	TTL	Transistor Transistor Logic
ESD	Electrostatically Sensitive Device	TV	Television
FBP	Feedback Pulse	UHF	Ultra High Frequency
FBT	Flyback Transformer	UL	Underwriters Laboratories
FF	Flip-Flop	UV	Ultraviolet
FM	Frequency Modulation	VCD	Variable-Capacitance Diode
FS	Fail Safe	VCO	Voltage Controlled Oscillator
GND	Ground	VCXO	Voltage Controlled Crystal Oscillator
G-Y	Green-Y	VHF	Very High Frequency
H	High	VII	Video Intermediate Frequency
HF	High-Frequency	VII VR	Variable Resistor
nr HI-FI	High Fidelity	VIN	Video Tape Recorder
IC		VTN	Video Tape Recorder Vacuum Tube Voltmeter
IC	Inductance-Capacitance Integrated Circuit	TR	Transistor
IF		IN	แลมรารเบา
П	Intermediate Frequency		

2-2 Description of Dynamic Focus

Most large-screen video display devices that are using CRT (including CDT) usually apply the Dynamic Focus (hereinafter D/F) circuit.

As CRT has non-spherical surface (perfect spherical surface = 1, non-spherical surface R>1), the distance that the electron beam emitted from the electron gun reaches to the center of CRT is different from the one that the electron beam reaches to the corners. (See Figure 1.)

Only the beam, which has the equal distance as the beam from the electron gun to the center of CRT surface, can maintain the optimum focus.

By this reason, focus dagradation at corners occurs inevitably.

To recover this, the speed of the electron beam injected into the corners of CRT should increase and the focus dagradation by the difference of distances can be compensated.

Increasing the voltage is used as a method of increasing the speed of the electron beam at the corners of screen.

In this case, an ideal D/F voltage waveform is the form of parabola where the center of screen has low voltage and the corners has the highest voltages.

The horizontal D/F waveform compensates the focus dagradation at left and right sides, but the vertical D/F waveform does at top and bottom sides.

The horizontal D/F and vertical D/F waveforms are separately created and mix two signals to compensate the focus of the whole screen.

And the vertical Dynamic Focus waveform is composed of the horizontal Dynamic Focus waveforms as much as the number of scanning lines. (See Figure 2.)

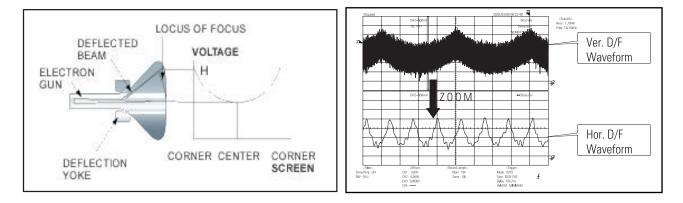


Fig. 1 Dynamic Focus Diagram (Horizantal)

Fig. 2 H/V Dynamic Focus Waveform

2-3 IC Line Up

2-3-1 Progressive

			Table 2 - 3 IC Line - Up	
No	Block Name	IC Location	IC Name	CODE-NO
	MAIN	IC601	TDA7265	AA96-00623E (ASSY)
		IC602	MSP3420G (QFP)	1204-002002
		IC603	TL062CDT (SOP)	1201-000541
		IC604	TL062CDT (SOP)	1201-000541
		IC605	TEA6422D (SOP)	1001-001178
		IC701	TEA6425D (SOP)	1001-001177
1		IC702	TEA6425D (SOP)	1001-001177
		IC704	PCF8591T	1002-001048
		IC801	KA278RA05 X 3EA +78R09+7808	AA96-00475B (ASSY)
		IC802	7905 (DIP)	1203-000119
		IC807	78R12 (DIP)	1203-000165
		IC808	SI-3050C	BP96-00020G (ASSY)
	Micom	IC901	SDA5550M (QGP)	204-001912
2		IC902	24C16 (SOP)	1103-000180
2		IC903	78RM33D	1203-002302
		IC905	M27W201-80F6 (DIP)	1102-001130
	PRO-SCAN	IC01	VSP9407 (QFP)	1204-001938
		IC02	CXA2151Q (QFP)	1204-001814
		IC03	BA7657F (SOP)	1001-001082
3		IC04	CXA2165Q (QFP)	1204-001989
		IC05	LF18	1203-002186
		IC06	7027	1203-001211
		IC11	78RM33D	1203-002302
		IC13	74HC123 (SOP)	0801-000662
4	CG-MDL	IC01	SDC12 (QFP)	BP13-00003A
4		IC02	78RM33D	1203-002302

No	Block Name	IC Location	IC Name	CODE-NO
	CG-MDL	IC03	7042	1203-001824
		IC04	7S04	0801-002345
		IC05	24C64 (SOP)	1103-001195
		IC06	TSC871251G2D (PLCC)	AA09-00032A
		IC07	EL2250CS (SOP)	1201-001520
		IC08	74HC4052 (SOP)	1001-000164
4		IC09	072 (SOP)	1201-001504
		IC10	072 (SOP)	1201-001504
		IC11	072 (SOP)	1201-001504
		IC12	LM324AM (SOP)	1201-001135
		IC13	NC7SB3157 (SOT)	1001-001155
		IC14	072 (SOP)	1201-001504
		IC15	7S04 (SOP)	0801-002345
		IC16	7S04 (SOP)	0801-002345
		IC17	TLC2932IPWLE (SOP)	1209-001163
	SUB	ICS801	VIPER12A	1203-002177
		ICS802	KA7805	1203-000568
		IC301	LA7845	1204-000517
		IC421	78R12	1203-000165
		IC430	317 (TO-220)	1203-000161
5		IC431	MC4558C	1201-000191
5		IC471	TL494CN	1203-000610
		IC831S	STR-X6456	AA13-00105A
		IC851	SE110N	1203-001400
		ICR01S	431 (TO-92)	1203-001217
		PC801S	PS2561	0604-001032
		PC811S	PS2561	0604-001032
6	CRT	IC501, 531, 561	TDA6111Q	1201-001131
7	CG-AMP	ICZ103, 104	STK392-010	1201-001512

2-4 MICOM IIC BUS LINE -UP

