

LIST OF FIGURES

Figure No	Title	Page No
1.1	Block Setup of Image Digitizer	3
1.2	Unique Energy Selective Cassette	5
1.3	Structure Model of B/W Film	10
1.4	Transmittance of Object	10
1.5(a)	Film During Exposure	12
1.5(b)	Film After Exposure	12
1.6	H & D Curve	15
1.7(a)	Scan-Out Digitizer	18
1.7(b)	Scan-In Digitizer	18
2.1	Cross Section Ideal High Pass Filter	30
2.2	The perspective Plot & Cross Section of Butterworth High Pass Filter	32
2.3	Example of High Pass Filtering	
	(a) Original Image	
	(b) Image Processed with a High pass Butterworth Filter	
	(c) Result of High Frequency Emphasis	
	(d) High frequency Emphasis & Histogram Equalization	33
2.4	Intensity Distribution of Illuminated Phosphorus Span on a CRT Screen	36
2.5	Input / Output Slot with Pin Details	41
2.6	Block Diagram of PCL-718	45



Figure No	Title	Page No
3.1	Mechanical Assembly	53
3.2	Block Diagram of PM DC Motor Control	56
3.2a.	Circuit Diagram of PM-DC Motor Control	57
3.3	Circuit Diagram of Stepper Motor Drive	60
3.4	Scan Mode	61
3.5	Optical Arrangement for Image Digitizer	68
4.1	Block of Electronic Log Conversion Circuit	71
4.2	Source & Detector Mount	73
4.3	Top View of MP 4000 Series Pen Plotter	73
4.4	Film Holder Assembly	75
4.5	Complete Block of Scanning System	75
4.6	Raster Scan Mode	76
4.7	Source & Detector Holder of Densitometer	76
4.8	Snap-1, Snap-2 and Snap-3	94
	Snap-4	95
	Snap-5	96