TABLE OF CONTENTS

SECTION		TITLE	PAGE
1	TECHNICAL DATA		
	1-1.	Introduction	1-1
	1-2.	System Description	1-1
	1-3.	Unit Description	1-1
	1-4.	Equipment Complement	1-6
	1-5.	Technical Data	1-9
	1-6.	Drawing Symbols	1-15
	1-7.	Abbreviations	1-16
2	INSTALLATION		
	2-1.	Introduction	2-1
	2-2.	Unpacking	2-1
	2-3.	Camera Head Mounting	2-1
	2-4.	VSA Unit and Viewfinder Installation	2-1
	2-5.	Lens Installation	2-1
	2-6.	Cable Interconnection	2-2
	2-7.	Deflection Yoke Removal	2-2
	2-8.	Pick-up Tube Replacement	2-3
	2-9.	Selecting Local Control Operation	2-4
	2-10.	Selecting Remote Control Operation	2-4
	2-11.	Intercom Tie Unit	2-4
3	OPERATION		
	3-1.	Introduction	3-1
	3-2.	Operating Facilities	3-1
	3-3.	Subject Lighting	3-8
	3-4.	Set-up Procedure Outline	3-9
	3-5.	Set-up Procedure	3-10
4	CAMERA HEAD		
	4-1.	Introduction	4-1
5	PLUG-IN MODULE ACCESSORIES		
	5-1.	Introduction	5-1

TABLE OF CONTENTS

SECTION		TITLE	PAGE
6		LENS SYSTEM	
	6-1.	Introduction	6-1
	6-2.	Lens Operation	6-1
	6-3.	Care of Lenses	6-2
	6-4.	Cannon 15-150mm f/2.0 Zoom Lens	6-2
7		FUNCTIONAL DESCRIPTION	
	7-1.	Introduction	7-1
	7-2.	RGB Output Module	7-1
	7-3.	Encoder Modules (NTSC and FCC/NTSC)	7-2
	7-4.	Pulse (Pulse Gen Sync Lock) Modules	7-5
	7-5.	External Pulse Module	7-8
	7-6.	Subcarrier (Subcarrier Sync Lock) Modules	7-9
	7-7.	External Subcarrier Module	7-13
8		PARTS LIST	
	8-1.	Introduction	8-1
	8-2.	Abbreviations	8-1
8A		CAMERA HEAD ASSEMBLY CONTENTS	8-1A
8B		LDH-1/OOS ACCESSORIES CONTENTS	8-1B
8C		PLUG-IN MODULE ACCESSORIES CONTENTS	8-1C

LIST OF ILLUSTRATIONS

FIGURE	TITLE	PAGE
	1 TECHNICAL DATA	
1-0	LDH-1/OOS Systems Compatible Compact Color Camera	1-0
1-1	LDH-1/OOS Basic Components System Family Tree Diagram	1-4
	2 INSTALLATION	
2-1	LDH-1/OOS Systems Compatible Camera Interconnection Diagram	2-5
2-2	LDH-1/OOS Camera Head (Rear View)	2-6
2-3	LDH-1/OOS Camera Head (Front View)	2-7
2-4	Viewfinder and VSA Unit (Rear View)	2-8
2-5	RGB Assembly (Left Side)	2-9
2-6	RGB Assembly (Right Side)	2-10
2-7	Deflection Yoke Assembly	2-11
2-8	Intercom Tie Unit LDH-1	2-12
2-9	LDH-1/OOS Audio System Simplified Schematic	2-13
	3 OPERATION	
3-1	LDH-1/OOS Camera Head Operating Facilities	3-0
3-2	Remote Control Unit Operating Facilities	3-7
3-3	Video Board Controls (Clad Side)	3-12
3-4	Video Board Test Points (Component Side)	3-13
3-5	Scanning Board Controls (Clad Side)	3-14
3-6	Scanning Board Test Points (Component Side)	3-15
3-7	Dark Current Waveform Display	3-28
	4 CAMERA HEAD	
	LDH-1/OOS Camera Head	
4-1	Camera Head with Top and Side Panels Open	4-2
4-2	Interconnection Schematic Diagram	4-3
4-3	Simplified Black Diagram	4-4
	Video Board (H)	
4-4A	PW Assembly	4-5A
4-4B	Clad Side PW Assembly	4-5B
4-4C	Iris Control Board	4-5C
4-5	Block Diagram Part 1	4-6
4-6	Block Diagram Part 2	4-7
4-7	Schematic Diagram Part 1	4-8
4-8	Schematic Diagram Part 2	4-9

LIST OF ILLUSTRATIONS

FIGURE	TITLE	PAGE
	4 CAMERA HEAD (Continued)	
	Scanning Board (P)	
4-9A	PW Assembly	4-10A
4-9B	Clad Side PW Board	4-10B
4-10	Block Diagram	4-11
4-11	Schematic Diagram	4-12
	Preamplifier (LR, LG, LB)	
4-12	PW Assembly	4-13
4-13	Block Diagram	4-14
4-14	Schematic Diagrams	4-15
	Dynamic Focus (U)	
4-15	PW Assembly	4-16
4-16	Block Diagram	4-17
4-17	Schematic Diagram	4-18
	Low Voltage Power Supply (J)	
4-18	PW Assembly	4-19
4-19	Schematic Diagram	4-20
	High Voltage Power Supply (K)	
4-20	PW Assembly	4-21
4-21	Schematic Diagram	4-22
	Control Module (X)	
4-22	Schematic Diagram	4-23
	Remote Control Unit	
4-23A	LDH-1/OOS Remote/Camera Interconnect Cable Diagram	4-24A
4-23B	LDH-1/OOS Overall Interconnect	4-24B
4-24	LDH-1 Power Supply (Board A)	4-25
4-25	LDH-1 Audio/Video (Board B)	4-26
4-26	LDH-1 Cable Compensation (Board C)	4-27
4-27	LDH-1 Remote Control (8900 1931-5)	4-28

LIST OF ILLUSTRATIONS

FIGURE	TITLE	PAGE
	4 CAMERA HEAD (Continued)	
	Video Switching and Audio Unit	
4-28	Audio PW Assembly	4-29
4-29	Video PW Assembly	4-30
4-30	Block Diagram	4-31
4-31	Schematic Diagram	4-32
	Viewfinder	
4-32	High Voltage PW Assembly	4-33
4-33	Video and Deflection PW Assembly	4-34
4-34	Schematic Diagram	4-35
	5 PLUG-IN MODULE ACCESSORIES	
	RGB Output Module (E)	
5-1	Parts Location	5-2
5-2	Block Diagram	5-3
5-3	Schematic Diagram	5-4
	Encoder Module (E)	
5-4	NTSC PW Assembly	5-5
5-5	NTSC and FCC/NTSC Block Diagram	5-6
5-6	NTSC Schematic Diagram	5-7
5-7	FCC/NTSC PW Assembly	5-8
5-8	FCC/NTSC Schematic Diagram	5-9
	Pulse Module (C)	
5-9	PW Assembly	5-10
5-10	Pulse/Sync Lock Block Diagram	5-11
5-11	Schematic Diagram	5-12
	Pulse Gen Sync Lock Module (C)	
5-12	PW Assembly	5-13
5-13	Schematic Diagram	5-14
	External Pulse Module (C)	
5-14	PW Assembly	5-15
5-15	Block Diagram	5-16
5-16	Schematic Diagram	5-17

LIST OF ILLUSTRATIONS

FIGURE	TITLE	PAGE
	5 PLUG-IN MODULE ACCESSORIES (Continued)	
	Subcarrier Module (D)	
5-17	PW Assembly	5-18
5-18	Block Diagram	5-19
5-19	Schematic Diagram	5-20
	Subcarrier Sync Lock Module (D)	
5-20	PW Assembly	5-21
5-21	Block Diagram	5-22
5-22	Schematic Diagram	5-23
	External Subcarrier Sync Lock Module (D)	
5-23	PW Assembly	5-24
5-24	Block Diagram	5-25
5-25	Schematic Diagram	5-26
	6 LENS SYSTEM	
6-1	Canon Zoom Lens with Carrying Case	6-3
6-2	Canon Lens Housing Exploded View	6-4
6-3	Canon Aperture and Relay Lens Group	6-7
6-4	Canon Focus and Zoom Optical System	6-9
6-5	Canon Iris Servo Drive Schematic Diagram	6-12

LIST OF TABLES

SECTION	TABLE	TITLE	PAGE
1	1-1	Equipment Complement	1-6
	1-2	LDH-1/OOS Performance Specifications	1-9
3	3-1	Function of Operating Facilities	3-2
	3-2	Typical Light Levels	3-8
	3-3	Matrices	3-37