



EYE COMMUNICATION SYSTEMS, INC.

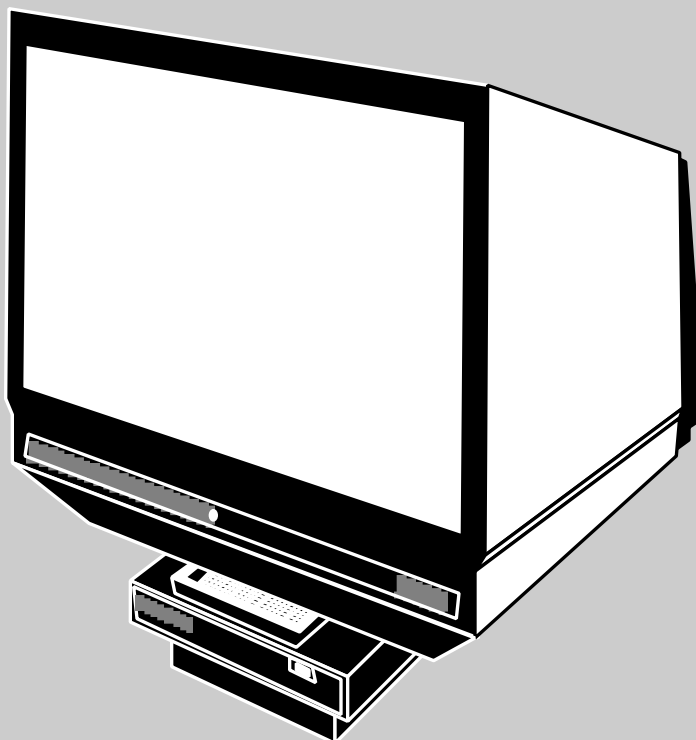
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## The Eye Com 6000 Engineering Reader Operating and Maintenance Instructions

### Introduction

To ensure correct use of this equipment, please read this operating manual and keep for future reference.

#### Unpacking:

1. Remove top insert and lift unit from container.
2. Remove plastic enclosure.
3. Remove tape on carrier insert and remove insert.
4. Remove tape from carrier glass.
5. Remove warranty card between carrier glass. (Fill out and return to Eye Com.)
6. Remove tape from viewing screen.
7. Remove the screen by lifting up and out using the black tabs located at the bottom of the screen.
8. Remove insert at the dual lens mechanism and from mirror bracket.
9. Remove objective lenses from small box inside the hood. See Figure 4 for installation assistance. The smaller number is the high magnification.
10. Insert lenses in reader in the following manner: With lens shift lever in the high position, insert the lowest millimeter lens, then shift to low position and insert highest millimeter lens.
11. Replace the screen.
12. Remove tape from lamp drawer located at the rear of the unit.
13. Remove wire tie around the power cord.

NOTE: The socket-outlet shall be installed near the equipment and shall be easily accessible.

### Operating Instructions

1. Plug in unit and switch to either "HI" or "LO" light.
2. Center the carrier and pull the carrier forward until the upper glass opens.
3. Insert microfiche or jacket between the upper and lower glass against the rear stop, push carrier backward.
4. Focus the image by turning the focus knob located in front, directly below the viewing screen.

## Maintenance

Maintenance of your Eye Com reader is limited to periodic cleaning of the viewing screen, upper and lower glass, lenses and mirrors. We recommend a monthly schedule for cleaning of these optical components using the Eye Com Cleaning Kit. If these components are not kept clean, there will be a slow deterioration of your image quality and brightness.

## Mirrors

The mirrors used in all Eye Com products are "front surface coated" to give maximum reflectivity and high resolution. As these mirrors are very susceptible to scratching, use a camel hair brush to remove lint and dust. Avoid touching the mirror surfaces, body oils will mar the mirror surface. Grease and other contaminants should be removed gently with glass cleaner and a non-abrasive cloth. The brush, glass cleaner and non-abrasive cloth are included in the Eye Com Cleaning Kit.

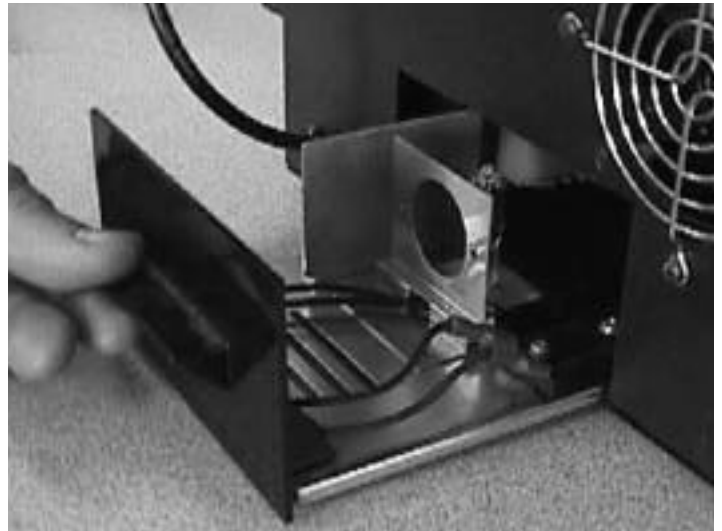


Figure 1

## Lamp Replacement

(Figure 1):

**CAUTION: Allow lamp to cool before attempting to remove it.**

1. Remove the lamp drawer located at the rear of the unit.
2. Slide the lamp upward out of its holder and disconnect the socket.
3. Connect the new lamp to the socket, slide it into the lamp holder and insert the drawer back into the unit.

**NOTE: Be careful not to touch the bulb portion of the new lamp. Oils will decrease lamp life and dim the image. Use a 24 volt, 150 watt, FDV replacement lamp only. (The OSRAM HLX64642 lamp is recommended)**

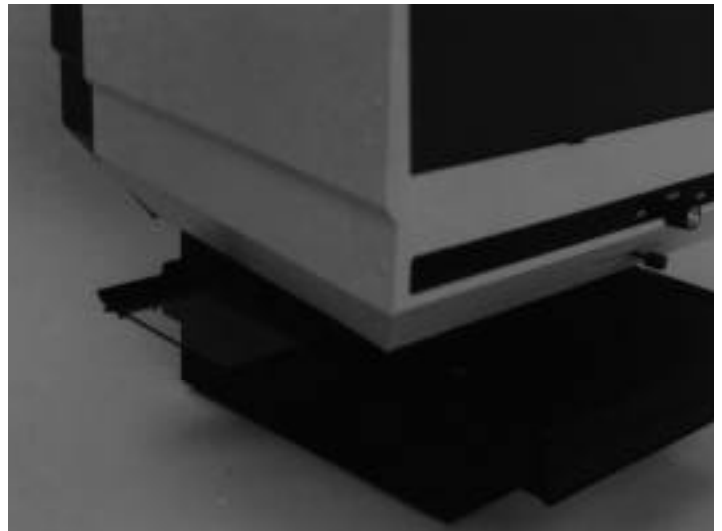


Figure 2

## Carrier Glass Removal and Cleaning

(Figures 2 and 3):

1. Push the carrier backward until it stops.
2. Move the carrier to its far left position.
3. Remove the upper glass by gripping the black extrusion and lifting up and out (Figure 2).
4. Center and pull the carrier toward you until it stops.
5. Gently push the lower glass backward until it stops, it should move back about 1/4". Lift the glass up and toward you (Figure 3).
6. Clean all glass surfaces with glass cleaner and a non-abrasive cloth.

**NOTE: While the carrier glass plates are disassembled, the round glass condenser lens protector may be cleaned.**

**NOTE: If your unit has a rollfilm attachment, see Rollfilm Attachment Operating Instructions for cleaning instructions.**

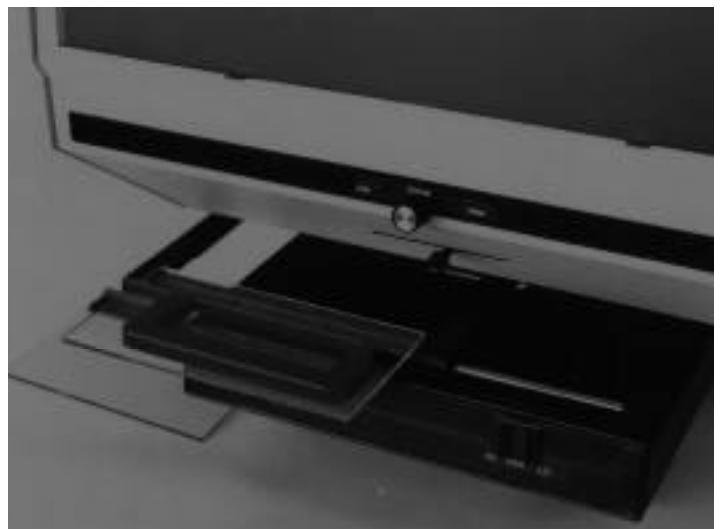


Figure 3

## Viewing Screen Removal and Cleaning:

1. Remove the screen by lifting it up and out using the screen tabs at the bottom of the screen.
2. Use glass cleaner and a non-abrasive cloth to gently wipe down the screen.

**NOTE:** Eye Com screens are coated with a special material to provide a sharp non-glare image. Harsh solutions should not be used in cleaning as they may damage the screen.

## Objective Lens Removal and Cleaning

(Figure 4 & 5):

1. With the screen removed, the objective lens can be easily removed for cleaning (Figure 4).
2. Pivot the mirror bracket toward the rear of the unit.
3. Grasp the top of the lens and gently pull it up and out.
4. Brush loose dust and dirt from the exposed elements with a camel hair brush and wipe the elements with a non-abrasive cloth.
5. Replace the lenses into their proper barrels and pivot the mirror bracket back toward the front of the unit.



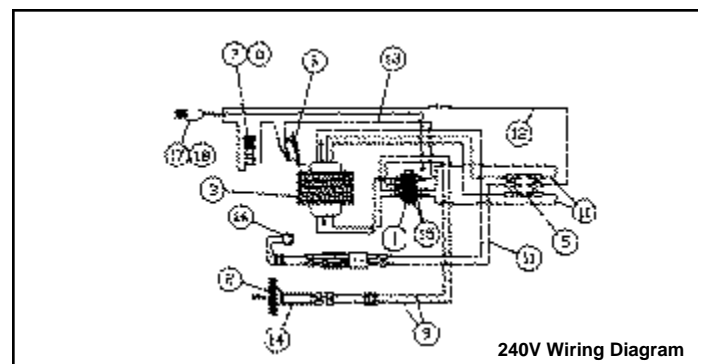
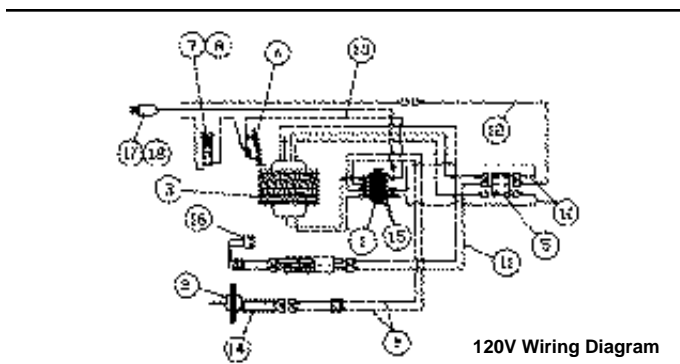
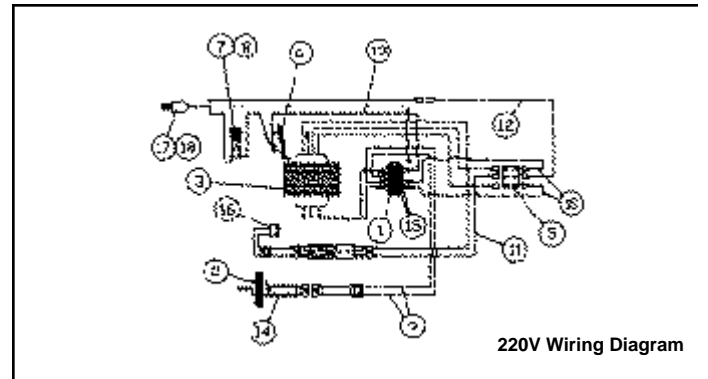
Figure 4



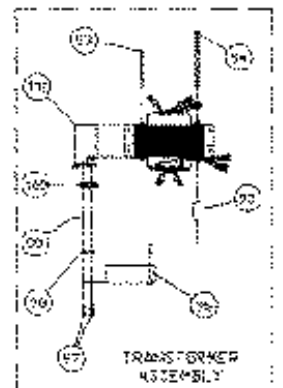
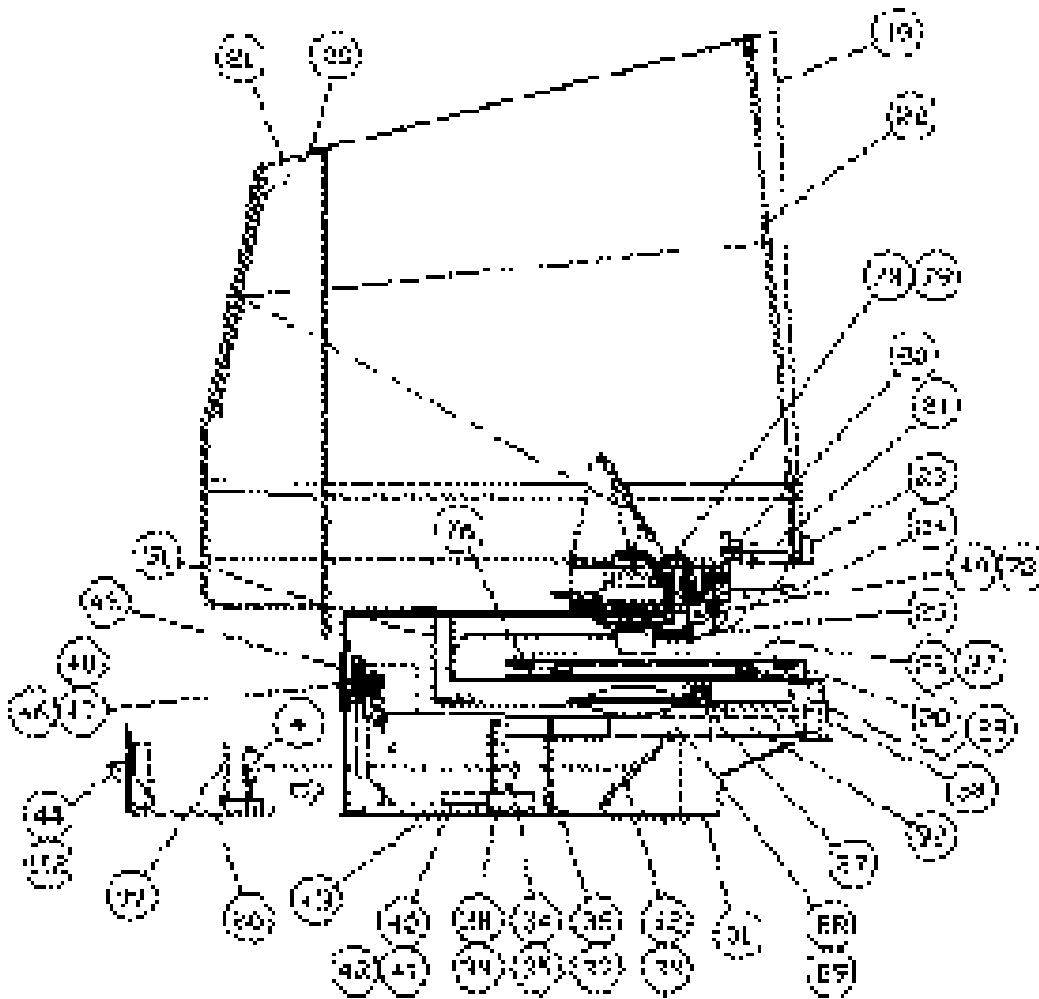
Figure 5

## SERVICE PARTS LIST & ACCESSORIES Eye Com 6000 Engineering Reader

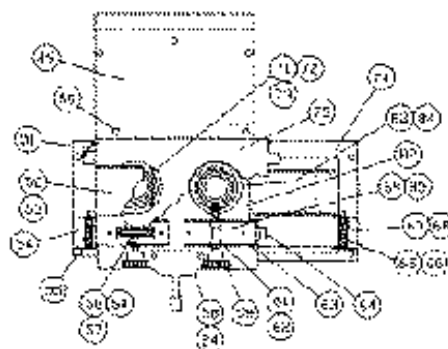
Description	Part No.
lamp, 24 volt, 150 watt, FDV (The OSRAM HLX64642 lamp is recommended)	2780
Upper Glass Assembly 4"x 7-3/8"	7226
Viewing Screen	2771
8mm Lens (29X; 120% blowback of 24X fiche)	1149
1mm Lens (12X)	7232
Dustcover	2751
Ambient Light Shield	7241
Turntable 360°	7078
Cleaning Kit	7045
Rollfilm Attachment -- 16mm/35mm	7242
Carrier Assembly	8044



**PARTS LIST**  
**Eye Com 6000 Engineering Reader**



**PARTS LIST**  
**Dual Lens Mechanism**  
**Eye Com 6000 Engineering**



**PARTS LIST**  
**EYE COM 6000 ENGINEERING READER**

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	2789	Terminal Block	1	50	1083	Screw, 6-20 x 1/4"	4
2	2778	Fan Motor, 120 volt	1	51	1066	Spring	2
	2830	Fan Motor, 230 volt	1	52	2736	Upper Mirror Bracket	1
3	2836	Transformer	1	53	2747	Upper Mirror	1
4	2780	HLX64642 Lamp	1	54	2735	Retainer Clip Rod	2
5	2784	Switch, On-Off-On	1	55	1078	Screw, 6-32 x 7/16"	4
6	3446	Switch, Interlock	1	56	2712	O-Ring	2
7	2314	Fuse Holder	1	57	2787	Gear Pulley	2
8	3504	Fuse, 3A, for 115 volt	1	58	2740	Shift Handle	1
	1811	Fuse, 1.5A, for 115 volt					
9	2715	Wire, 23" Black	2	59	2743	Gear	3
10	2774	Wire, 8" White	2	60	2745	Hi Mag Gear Shaft	1
11	2775	Wire, 16" Red	1	61	1243	Nyliner Type 5	4
12	2708	Wire, 8" White	1	62	1051	E-Ring	5
13	2874	Wire, 16" White	1	63	2730	Gear Bracket	2
14	1134	Shrink Tube	6"	64	2711	Retainer Clip	2
15	2788	Terminal Block Jumper	2	65	1109	Screw, 6-32 x 1 7/8"	2
16	2779	Lamp Socket TP-17	1	66	1640	Nut # 6	2
17	7414	Power Cord - GRD US	1	67	2734	Clip, Shaft Bracket	2
	7404	Power Cord - European	1	68	1083	Screw, 6-20 x 1/4"	4
	7405	Power Cord - U.K.	1	69	1115	Eccentric Universal	2
18	1070	Strain Relief	1	70	1052	Nyliner 1/16"	2
19	2701	Hood Assembly	1	71	1149	Objective Lens (29mm)	1
20	2805	Rear Shroud	1	72	1120	Lens Barrel	1
21	7231	2nd Mirror Assembly	1	73	2731	Lens Barrel Housing	1
22	7233	Screen Assembly	1	74	2741	Dual Lens Lift Housing	1
23	1035	Focus Knob	1	75	2737	Upper Mirror Brkt. Support	1
24	1656	Shift Knob	1	76	1201	Slide Rod Carrier	2
25	1114	Lower Focus Shaft	1	77	2738	Upper Slide Rod	1
26	7226	Upper Glass Assembly	1	78	2379	Screw, 6-32 x 5/8"	1
27	1204	Lower Glass	1	79	1640	Nut # 6	1
28	7227	Carrier Sub Assembly	1	80	2750	Grommet	2
29	7238	Base Sub Assembly	1	81	2746	Focus Shaft	1
30	2717	Front Panel	1	82	2729	Retainer Channel	1
31	2704	Bottom Plate	1	83	7232	61mm Lens Assembly	1
32	2718	Cold Mirror	1	84	2732	Brass Barrel	1
33	2721	Lower Mirror Bracket	1	85	2742	Low Mag Focus Shaft	1
34	2723	Condenser Holder #1	1	86	2722	Lamp Drawer	1
35	2769	Condenser, Aspheric	1	87	2724	Lower C-Bracket	1
36	2776	Heat Filter	1	88	2767	Condenser Lens	1
37	2781	Heat Filter Bracket	1	89	2768	Condenser Lens	1
38	1967	Contact Block, Female	1	90	2720	Reflector Cup Bracket	1
39	1968	Contact Block, Top	1	91	2727	Main Frame	1
40	1965	Contact Block, Male	1	92	2739	Lower Slide Rod	1
41	2752	Heat Sink (Elect. Connector)	1	93	2832	#6-32 x 2 PPH MS Z1	3
42	2753	Spacer Electrical Connector	3	94	2875	#6-32 x 3 PPH MS Z1	1
43	2210	Rubber Foot	4	95	2782	Spacer	1
44	1915	Handle, Drawer	1	96	2787	Transformer Shield Bracket	1
45	2703	Rear Plate	1	97	1984	#4-40 x 3/4 PPH MS Z1	2
46	2763	Fan Mount	2	98	1080	#6 Flat Washer	2
47	2777	Fan Blade	1	99	3520	Interlock Switch Shield Brkt.	1
48	2778	Fan Motor, 115 volt	1	100	3446	Micro Switch	1
	2830	Fan Motor, 230 volt	1	101	3519	Interlock Switch Mtg. Brkt.	1
49	2728	Upper C-Bracket	1	102	3521	Interlock SW Plunger	1