



MAGNISIGHT, INC.

Quality Products For The Visually Impaired

Custom Focus
17" Color Inline
CCTV System

WITH SELECT-A-COLOR

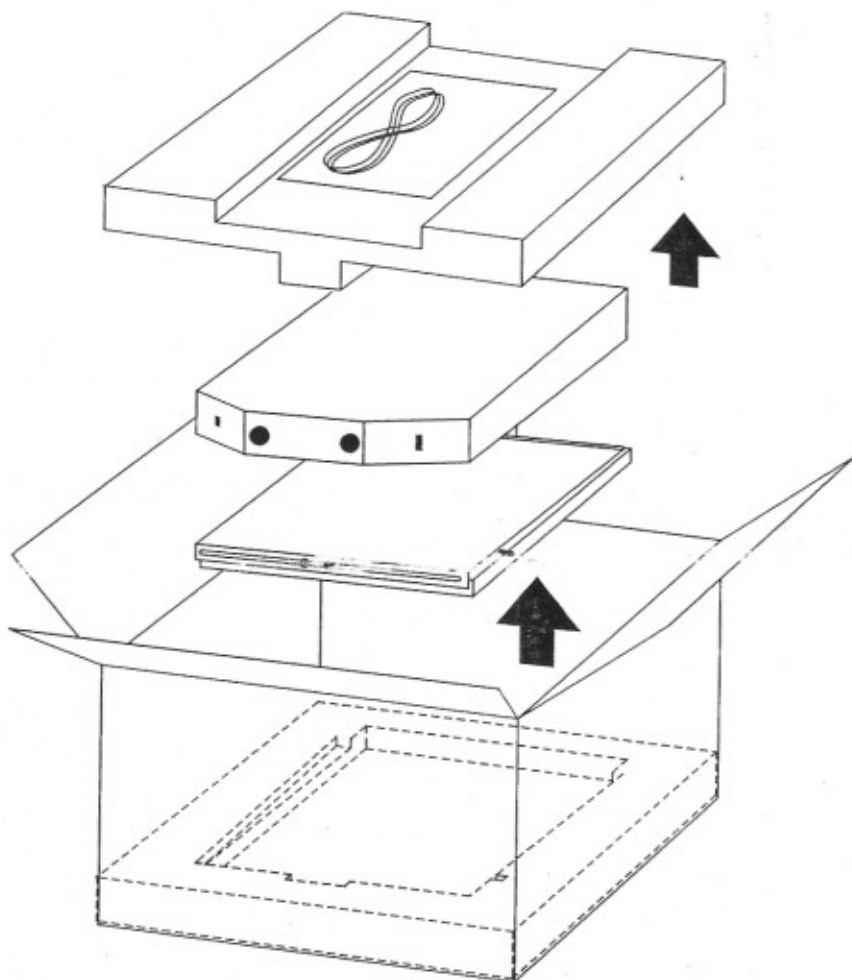
★ ★ ★ **MSE-AC17-VS** ★ ★ ★

INSTRUCTION MANUAL

UNPACKING AND SET-UP OF CAMERA SYSTEM

When removing camera unit from the shipping carton, you will find the parts packaged in a separate bag above the camera unit. This bag should contain an owner's manual, clear plastic sheet and cables. Remove camera unit from box and packing materials.

IMPORTANT: DO NOT DISCARD Packing cartons and materials. These should be stored in the event servicing should be required.



Place Camera Unit on sturdy surface where it will be used.
See Figures 2 through 5 for hook-up and operating information.

Front View of System

(Monitor Sizes May Vary)

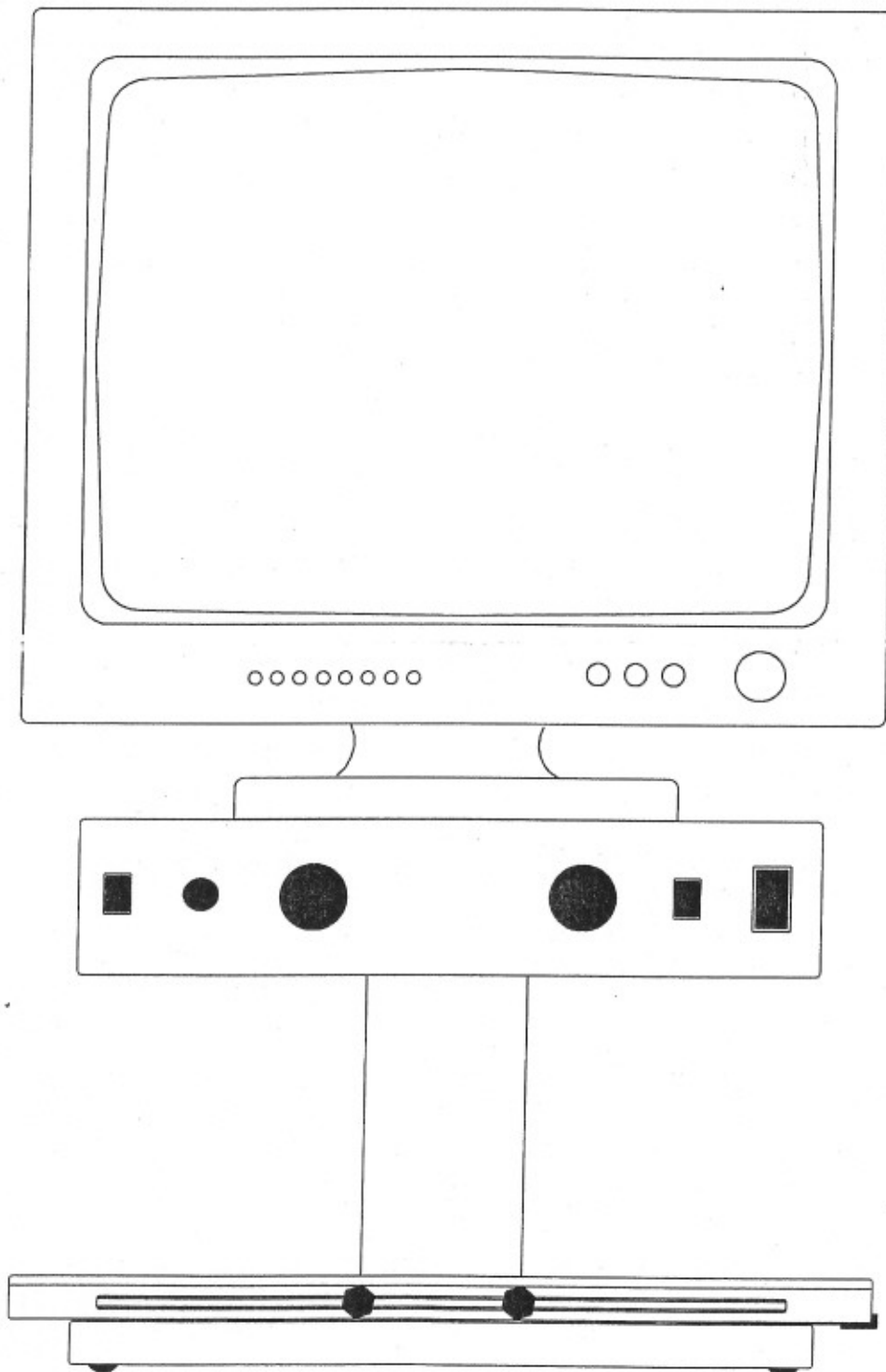


FIGURE 1

Front View of Camera

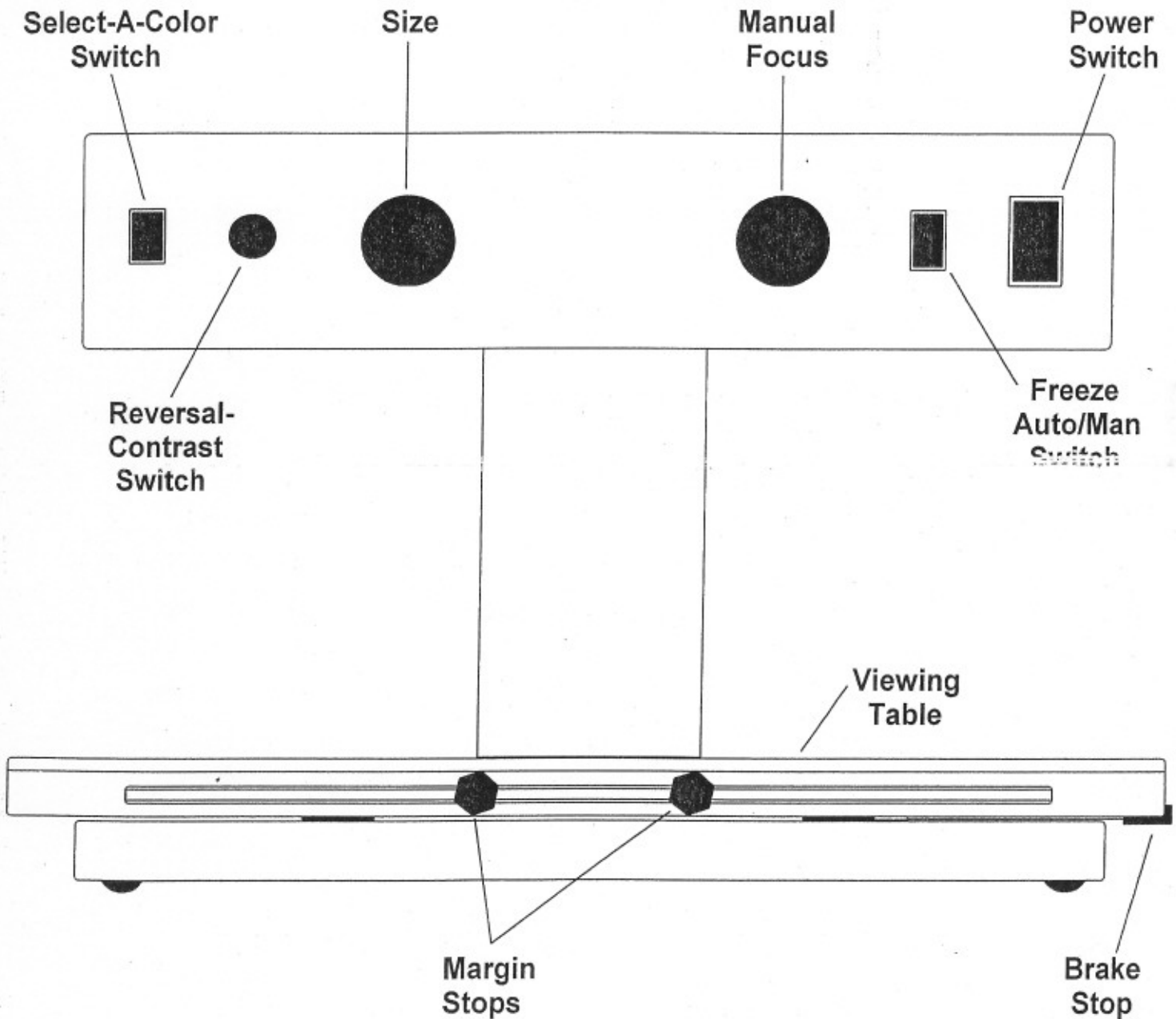


FIGURE 2

FIGURE 2

CAMERA UNIT, FRONT VIEW

When looking at the front of the camera unit, the controls are as follows:

1. **Power Switch** turns camera "on" and off".

NOTE: TV/monitor power is turned on/off with camera **Power Switch** when plugged into power outlet on back of camera unit. When turned on, the video image will stabilize before an image appears on screen (a normal delay of 4-5 seconds).

2. **Reversal-Contrast Switch** is a dual function control used to reverse the text-to-background image and to increase and decrease the contrast of the image. For the "normal" image, *push* in on the knob. For the "reversed" image, *pull* the knob to the out position. The reversed image (white letters on a black background) is ideal for some users because of brightness and contrast needs. In either position, turn the knob left or right for the best contrast.
3. **Size Control** changes the magnification level or size of image in small, incremental steps. Turning this knob makes the image larger and smaller. For convenience, the camera is set to the *AUTO FOCUS* mode whenever the **Size Control** is adjusted. This keeps the image in focus as the magnification is changing. In the higher magnification range, the Auto Focus feature is very sensitive and will re-adjust focus when any movement of the image is recognized. When this occurs, stabilize the image by pushing **DOWN** on the Auto/Manual Switch to lock in the current focus setting.
4. The **Manual Focus Control** is used to turn the *AUTO FOCUS* mode OFF to *manually* bring an image into focus yourself. Whenever this control is turned, the camera is set to the *MANUAL FOCUS* mode (*AUTO FOCUS OFF*). Though *AUTO FOCUS* mode is best for most applications, the **Manual Focus Control** is useful in the higher magnification ranges when viewing unusually shaped or curved objects where the *AUTO FOCUS* mode has difficulty focusing.

5. The **Freeze/Auto-Manual Switch** is a dual function control. Pushing **UP** is the FREEZE function, and **DOWN** is the AUTO/MANUAL FOCUS function.

By pushing **UP** on this switch, the FREEZE mode is activated. This feature "freezes" or captures the current video image on the screen. This feature has many uses and is ideal whenever a steady image is required (i.e. viewing a prescription bottle, dialing a phone number while reading it on the screen, etc.) With the image locked on the screen, the Reversal/Contrast, and Color controls may be adjusted to enhance the image as needed. To return to normal video, simply push **UP** on the control switch again. Adjusting the Size, Manual Focus, or Auto-Manual Switch will also restore the camera to the normal video mode.

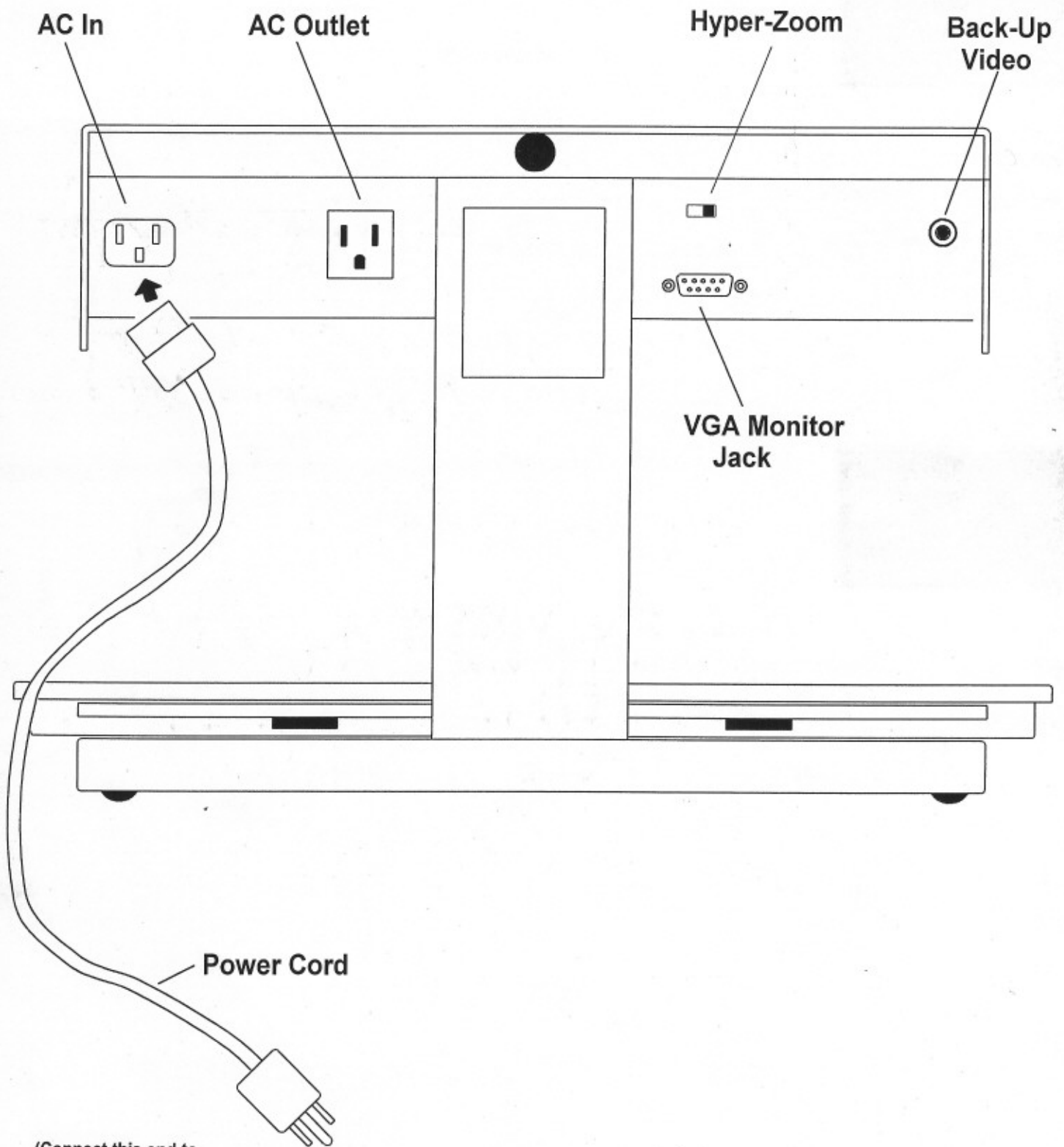
Pushing **DOWN** on this control activates the Auto/Manual Function. This feature gives the user additional control between the AUTO FOCUS and MANUAL FOCUS modes. In AUTO FOCUS mode, the camera will continually seek to keep the image in focus. This is most noticeable in higher magnification ranges and when there is movement under the camera (writing, etc.). For this reason, there are some occasions when you may want to turn the AUTO FOCUS mode OFF. This is done by adjusting the Size Control to the proper magnification and allowing the AUTO FOCUS mode to bring the image into focus. Then, push **DOWN** on the Auto/Manual Focus control. This locks in the current focus setting for a steady image. Alternately, to return to the AUTO FOCUS mode, push **DOWN** again on the Auto/Manual Switch.

6. The **Viewing Table** is mounted on an X-Y slide providing easy left-right, front-back movement. Begin by loosening the **Margin Stop Knobs** and sliding them to the far left and right respectively. Next, loosen front to back **Brake Stop**. The **Viewing Table** should now move freely in all directions. By moving and securing the **Margin Stop Knobs** inward, the travel of the **Viewing Table** is reduced left to right. This feature assists in reading a narrow column of text. The front to back **Brake Stop** is used to slow the front to back travel of the **Viewing Table**. This steadies the table for best viewing.

Select-A-Color Feature

7. This unique feature provides different ways of viewing the same video image. The **Select-A-Color Switch** changes the image from standard full color to different two color combinations that may enhance viewing for the user. To cycle forward through the different combinations, push **up** on the switch. Push **down** to go back through the different combinations. Pull out on the **Reversal-Contrast Switch** to reverse the color combinations. Once the optimum combination is selected, turn the **Reversal-Contrast Switch** left or right for the best contrast. Different color combinations may be helpful when viewing different images.

Rear View of Camera



(Connect this end to standard 110 VAC/ 60hz wall outlet or power strip.)

FIGURE 3

FIGURE 3 CAMERA UNIT, BACK VIEW

1. Connect **Power Cord** to **AC In Jack** on back of camera and the other end to a standard (110V) wall outlet.
2. The **AC Outlet** provides power for a TV/Monitor. Connect TV/Monitor power cord into this outlet.
3. The signal source for the PC monitor is the **PC Monitor Jack**. Connect the signal cable from the PC Monitor to this jack. This connection must be secure for proper operation.
4. The **Back-Up Video Jack** is a back-up video source. It is intended to be used when an alternate video image is desired. A TV/Monitor (not included) can be connected to this jack to view only the normal or reversed video modes.
5. **Hyper-Zoom Switch** activates the camera's upper magnification range when the *largest* magnification of images is required. This upper magnification range is accomplished through a digital process in the camera and may create a more noticeable "pixel" effect or lack of sharpness, but has the advantage of gaining additional magnification. This function is normally set to the "OFF" position when shipped from the factory. To activate this feature, turn the unit off and move the slide switch to the alternate position. When the unit is turned back on, the additional high magnification range can be utilized by adjusting the **Size Control** to the higher range.

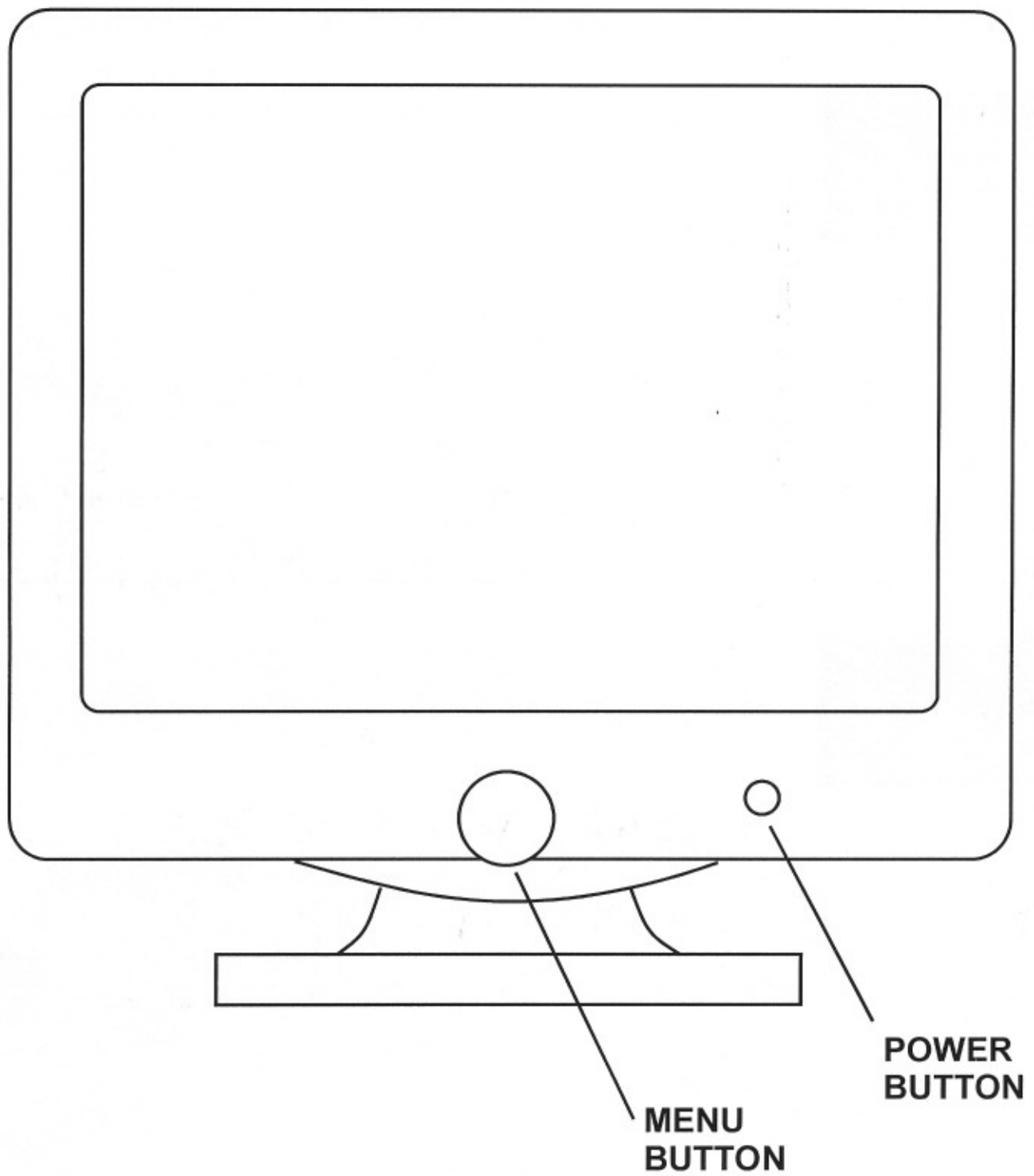


FIGURE 4

Rear View of Monitor

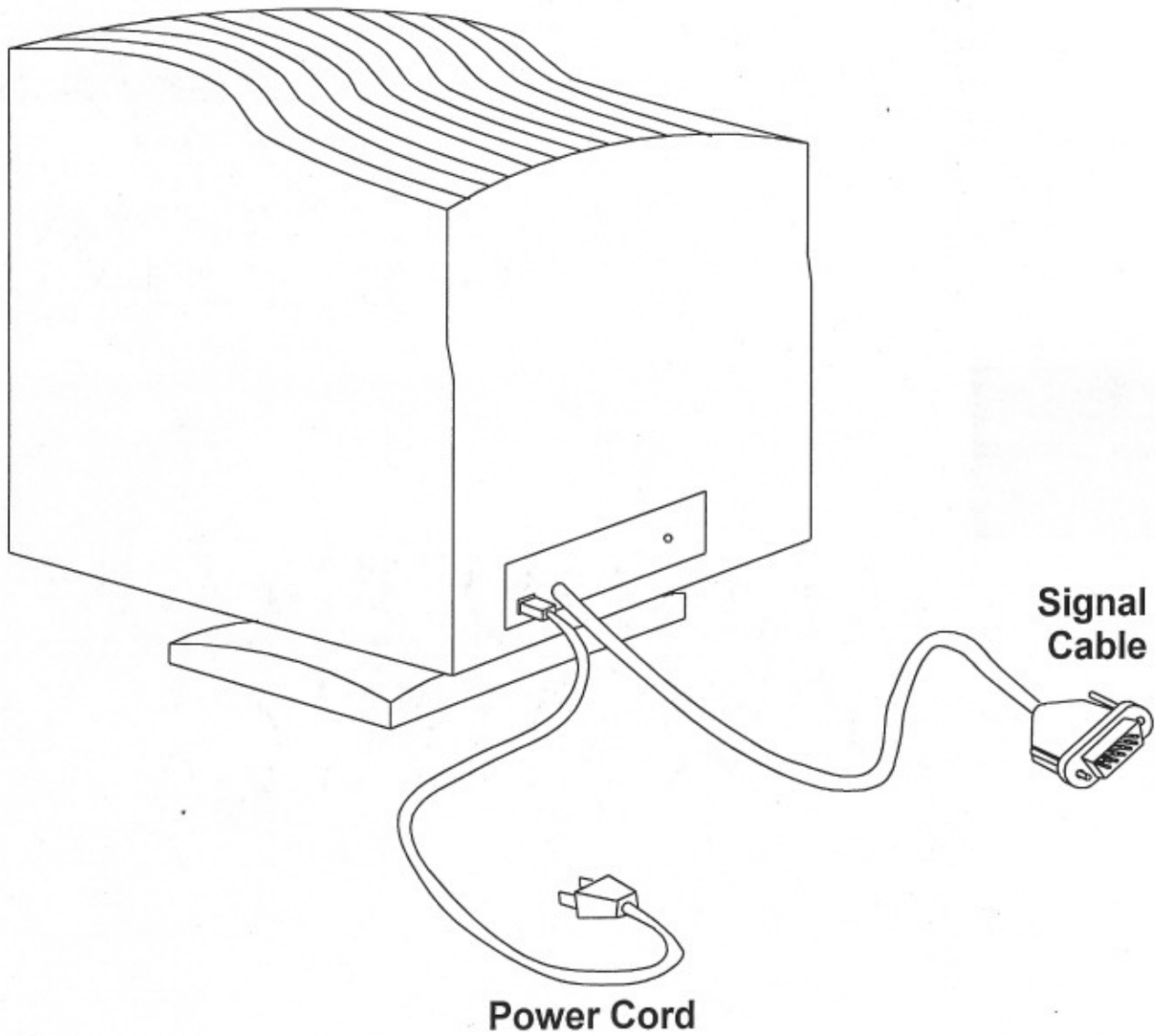


FIGURE 5

FIGURE 4 MONITOR, FRONT VIEW

The controls described are typical on most PC monitors. The monitors used with this Camera Unit may vary. Usually brightness, contrast, and screen position buttons are located on the front panel. Refer to the monitor owner's manual for more information.

1. The **Power Button** turns the monitor on & off. Leaving this switch in the "on" setting will allow the monitor to be switched on & off with the camera unit power when the monitor power cord is plugged into the AC Outlet on the back of the camera unit.
2. The PC Monitor is normally set to standard screen settings. If desired, contrast, screen size and position may be adjusted using the **Menu Button**. See the monitor manual for further instructions on how to adjust these levels.

FIGURE 5 MONITOR, BACK VIEW

This figure shows the connections on the back of a typical PC Monitor.

1. The **Power Cord** plugs into the **AC Outlet** located on the back panel of the Camera Unit.
2. The **Signal Cable** connects to the **Monitor Jack** on the rear panel of the camera. This connection must be secure for the PC Monitor to work properly.

SERVICING INSTRUCTIONS

Magnisight, Inc. CCTV systems are precision instruments and when treated with care should provide trouble-free performance. However, in the event of difficulty, the end user is advised not to make repairs or open the cabinet with the exception of the user serviceable items outlined below. Servicing should always be referred to a Magnisight, Inc. Authorized Repair Center. (See contact information at the end of this section).

Fluorescent Bulb Replacement

Each camera unit is equipped with two (2) bulbs. They are rated at 10,000 hours of service and will last a long time under normal use. In the event either bulb fails (does not light or flickers), replace bulbs with same type. (See Magnisight, Inc. ordering information. To replace bulb, see illustration.

CAUTION: Always turn unit off, disconnect power cord and wait for bulbs to cool prior to replacing bulbs.

Bulbs are located under each side of camera unit. To remove lamp, grasp the sides of the bulbs and gently pull toward you until the bulb disengages (*use thumb to protect end of bulb from hitting metal receptacle*). Discard the bulb once it is removed. Insert new bulb into receptacle making sure bulb aligns properly. Bulb should snap into place.

Power Problems

Due to power fluctuations and/or camera malfunction an internal resettable may trip to protect the camera from some power surges. If camera unit will not power back up after a few minutes, contact your Magnisight Representative or Magnisight, Inc. for instructions.

General Troubleshooting

Many times difficulty with CCTV system can be resolved by re-checking cable connections, verifying power is turned on,...etc. The chart below may help in locating a problem.

Problem	What to check
No picture on the TV/Monitor screen	Is the video cable secure at both ends? Are both camera and TV turned on? Is TV set to video mode?
Camera will not turn on (no lights)	Try resetting power switch Verify power at wall outlet
Image on screen is "fuzzy" or hard to read	Re-adjust FOCUS and ZOOM Adjust Contrast control on Camera

For questions, general information, service, or ordering,
contact a MagniSight Distributor or MagniSight, Inc.

Contact:

MagniSight, Inc.
(719)578-8893 or (800)753-4767

or write to:

MagniSight, Inc.
Attn: Service Dept
3631 N. Stone Ave.
Colorado Springs, CO 80907

**Please visit us online at our new website:
www.magnisight.com**

Return Shipping Instructions

Note: The factory pack system consists of two Foam Insert pieces (top and bottom) and an outer Box.

1. Place Bottom Foam piece in the bottom of the box with the camera cut-out facing up.
2. Secure Margin Stops with Viewing Table centered. Place Camera Unit into cutout in bottom foam piece.
3. Place top foam piece over Camera Unit. Both top and bottom foam pieces must be securely fit over Camera Unit to insure safe shipment. If equipped with TV Tray, place Tray and Legs in upper compartment as shown. Enclose all cables and identifying documentation and secure Box with packing tape.

NOTE: This equipment must be shipped in the original containers. If damaged or missing, contact Magnisight Inc. for replacements. The customer is responsible for any damage resulting from improper packaging.

