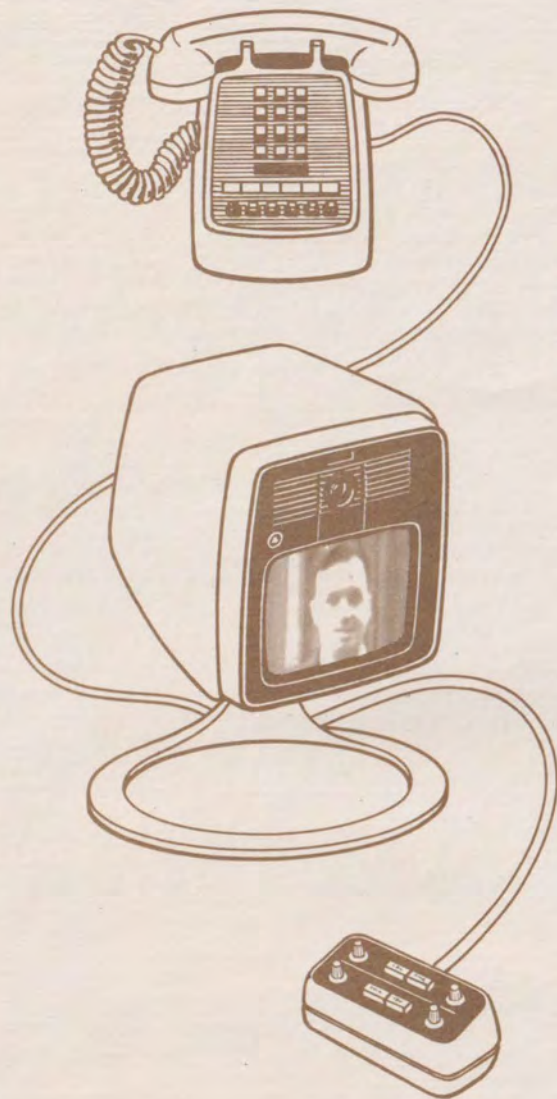




How to use the
Picturephone[®] set

*The telephone
of the future*





PICTUREPHONE[®]

service is the dramatic new dimension in telephone communications developed by the Bell System. Using PICTUREPHONE sets, two parties can actually converse face-to-face over telephone lines. We think you will find that your personal business communications become more edifying and more vital through the use of PICTUREPHONE service.

We hope you will enjoy your participation in this trial and we would like to express our thanks to you for helping us in the continuing development of tomorrow's communications.

GENERAL DESCRIPTION

During this product trial, you will continue to make and receive calls as you have in the past, including using WIN (Westinghouse Information Network) and all regular 4 digit numbers. PICTUREPHONE calls via WIN, however, are not possible.

The equipment you are using for PICTUREPHONE calls consists of a TOUCH-TONE® telephone, a display unit, containing the camera and video tube and a control pad. A microphone (located in the control pad) and a loudspeaker (in the display unit) provide a Speakerphone facility, allowing you to speak "hands free," with or without associated video transmission.

We suggest that you will derive the most satisfaction from your PICTUREPHONE calls, if you use the Speakerphone mode for all calls, except when you desire to hold a private conversation.

A



OPERATING INSTRUCTIONS

TO PLACE A VIDEO CALL

- 1 Depress a Line Button.
- 2 Depress the "ON" button on the control unit (Line Button will show a steady white light) or lift the handset to talk privately.
- 3 When you hear the dial tone, dial the prefix "#" followed by the desired 7 or 10 digit telephone number. (After completion of dialing, a red light will show beneath the depressed Line Button indicating a visual call.)
- 4 When you are connected to your party, speak toward the microphone contained in the control unit.

B



C

- 5 Turn the VOLUME knob to adjust the sound level of the loudspeaker to the desired level.
- 6 If you desire to view the picture you are transmitting before your call is answered, you may do so as soon as the red lamp lights. Just press the MONITOR button and then make any necessary adjustments in accordance with the procedures outlined in the section on outgoing picture (p. 4). You can use the MONITOR button at any time during your call to observe the outgoing picture. This will not interrupt your transmission.
- 7 Should you desire to speak privately with others in your room, hold the "ON" button down until you are ready to resume your conversation with the distant party. While the "ON" button is down, you will still be able to hear your distant party, since only **your** voice transmission will be interrupted.
- 8 When you have completed your call, depress the "OFF" button (or hang up the handset, if you are using it at the end of your call).

Speakerphone calls can be made with or without visual transmission. To make a regular audio call follow the above instructions, but dial just the desired telephone number, without the "#" prefix.

TRANSFERRING BETWEEN SPEAKERPHONE AND HANDSET

If, during your conversation on the Speakerphone, you wish to converse in private, simply lift the handset. To transfer back to the Speakerphone arrangement, hold the "ON" button depressed until you have replaced the handset, or your call will be disconnected.

D

TO ANSWER A PICTUREPHONE CALL

PICTUREPHONE calls to a principal line are identified by a flashing red light beneath a Line Button and by a distinctive ringing sound. Incoming PICTUREPHONE calls on secondary lines are recognized by a flashing red light only.

To answer a PICTUREPHONE call:

- 1 Depress the appropriate Line Button.
- 2 Depress the "ON" button (or lift the handset to talk privately). (Line Button will show a steady red light.)
- 3 When the call is completed, depress the "OFF" button or hang up the handset if you are using it at the end of the call.

E



PITTSBURGH

NEW YORK



If, before answering a call, you decide that you do not want to be seen by the caller, depress the DISABLE button before following step #2 above. Depressing the DISABLE button at any time during a conversation or during ringing cuts off the outgoing video.

TO HOLD A CALL

Both regular audio calls and PICTUREPHONE calls can be "held" to allow you to attend to another call or to perform some other activity, while retaining your original connection. Just follow these directions:

- 1 Press firmly and release the HOLD button (The Line Button associated with the original call will spring up, but its lamp will start winking).
- 2 To place or to answer a second call, refer to the instructions described in previous sections on placing and answering calls.
- 3 To return to your original call, depress the Line Button associated with that call.

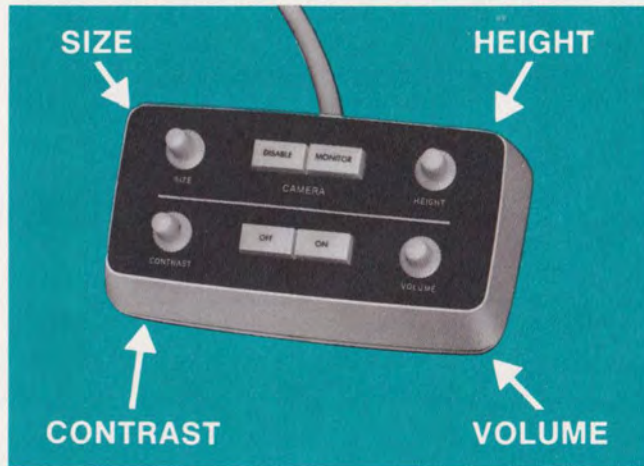
F



ADJUSTING THE PICTURE

The buttons and knobs on the control unit, exclusive of the VOLUME knob and the ON and OFF buttons, are used for adjusting the picture. The CONTRAST knob is used to adjust your picture screen; the other controls are for adjusting, checking or stopping the picture you are transmitting. The function of each of these controls is described below.

G



INCOMING PICTURE

CONTRAST Knob

To adjust the picture for clarity and brightness, turn the knob until the clearest picture is obtained.

OUTGOING PICTURE

MONITOR Button

The best face-to-face video transmission is accomplished when you face the camera at a distance of 36 to 40 inches. To view the picture you are transmitting, depress the MONITOR button (as indicated earlier) which becomes illuminated. You will then be able to view the effects of the SIZE, HEIGHT, and DISABLE controls on your camera. The MONITOR button will remain illuminated as long as you are in the MONITOR condition. Remember the effects of the SIZE, HEIGHT, and DISABLE controls on your camera can be seen by you only when you are in the MONITOR condition.

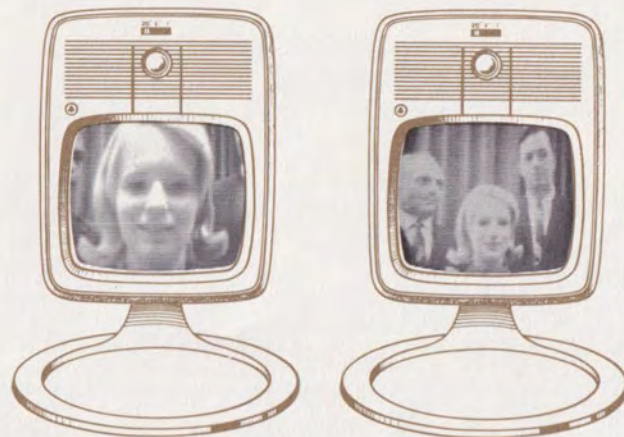
SIZE Knob

For normal viewing, the SIZE knob is turned to its full clockwise position which provides a field of approximately 15" x 16½" at a distance of 36 to 40 inches from the camera. To expand to a wider camera angle, as when you want to include more than one person in the picture, turn the knob counterclockwise, until the entire subject(s) is covered. When the knob is in a full counterclockwise position, the camera's scope is as wide as it can ever be, and if the entire subject is not covered to your satisfaction, you may have to increase the distance between the subject and the camera.

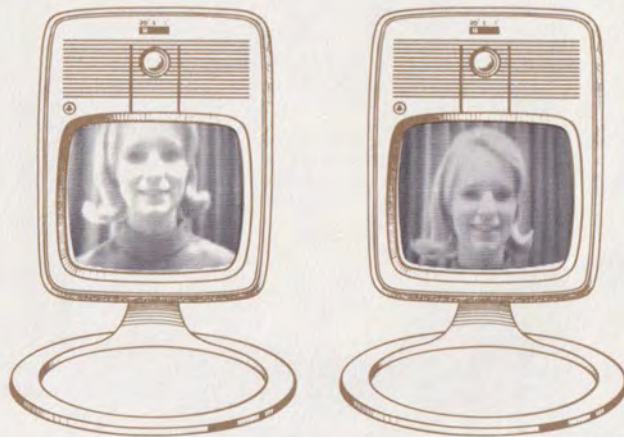
HEIGHT Knob

Normally, when you are seated facing the camera at a distance of 36 inches your whole face should be in the camera's field of view. The HEIGHT knob is used to raise or lower the aim of the camera as necessary to center people of different heights. To obtain the desired field of view, coordinate the alignment of the HEIGHT and SIZE controls. The effect of the HEIGHT knob on the picture varies with the size of the field of view covered by the camera. The HEIGHT knob has its greatest effect when the camera's field of view is smallest. Conversely, at the widest camera angle, it has no effect at all.

H



J



DISABLE Button

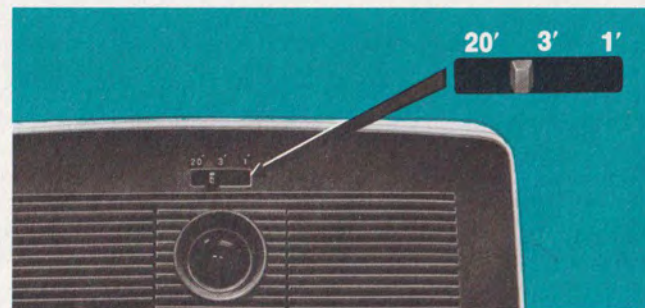
If, at any time during a call or during ringing, you decide that you do not wish to be seen by the other party, depress the DISABLE button which substitutes a one-way pattern (fixed horizontal bar pattern) for your outgoing picture. There will be no effect on the incoming picture. As long as this one-way picture transmission prevails, the light beneath the DISABLE button will be illuminated. To restore two-way viewing depress the DISABLE button once again; the lamp will be extinguished.

K



MODE SWITCH

L



On the front side of the display unit at the top is a small lever with three settings called a MODE switch (see photo L). Each of the settings provides a different camera focal distance as follows:

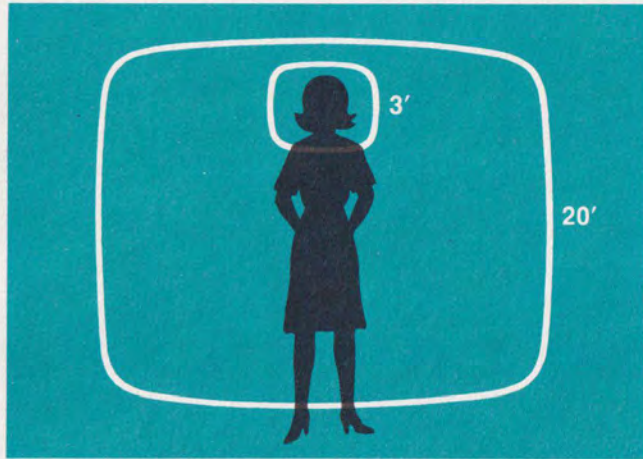
Normal Use

The best camera focus is obtained at a distance of about 36 to 40 inches. For normal use the middle setting (marked "3'") should be used.

Remote Distances

For picking up objects at distances approaching twenty feet or more, the setting on the left (marked "20'") should be used.

FIELD OF VIEW



Graphic Material

To transmit graphic material placed on the table top, the switch should be moved to the right side (marked "1"). A reflecting visor swings out to enable the camera to view the graphic material. The field of view includes an area approximately 5" x 5" directly beneath the visor (see photo N). To view the graphic material you are transmitting, depress the MONITOR button. After the visor is extended, the MODE switch returns to the middle position automatically. When you have completed transmitting the graphic material, push the visor back into its recessed position before switching to another mode. The **SIZE** and **HEIGHT** controls do not function in this mode of operation.

M



N



PICTUREPHONE Conference Calls

The facility for video conference calls is an optional feature of the PICTUREPHONE service. If your normal telephone service is so equipped, two particular lines have been specially connected for the conference arrangement and **only** these two lines may be used for conference calls. When you have a call in progress (either that you initiated or received) you can add a second party in the following manner:

- 1 Ask the first party to stand by while you contact the second, and then depress the HOLD button.
- 2 Follow the procedure for placing PICTUREPHONE or regular audio calls, using the other line assigned to the conferencing arrangement.
- 3 When the second party answers, depress and release the CONFERENCE button.

- 4 If both calls are PICTUREPHONE calls, depress the Line Button of either line to converse face-to-face with the person on that line. Only the party you see can see you. When disconnected, he will see a blank screen. All three parties will be in voice communication at all times.

The picture may be switched from one line to the other as often as you wish by simply depressing the appropriate Line Button. When switching from line-to-line, depress the Line Buttons firmly and rapidly to avoid disconnecting the call.

If only one of the calls is a visual call, depress the Line Button associated with that call to converse with the person on that line.

If neither call is a PICTUREPHONE call, it doesn't matter which Line Button you depress.

- 5 To continue one conversation while terminating the other, depress the Line Button for the call you want to retain, and momentarily depress the CONFERENCE button.
- 6 To conclude the conference, depress the "OFF" button or replace the handset.

0



One of our objectives during this product trial is to determine the quality of the PICTUREPHONE service under actual operating conditions. Therefore, some remote video observations will be made occasionally by Telephone Company technicians during your transmissions. Please be assured that in all such instances the observations will be conducted with due respect for the privacy of your communications.

However, if at any time you wish to exclude these observations, just follow the procedures outlined below:

- 1 Push the "ON" button on the control unit and hold depressed while . . .
- 2 Pushing the "OFF" button . . .
- 3 Release the "OFF" button and then . . .
- 4 Release the "ON" button.

OPERATING INSTRUCTIONS FOR THE SECRETARY

If you have a 12-Button TOUCH-TONE telephone equipped with a combination clear and red Line Button, you can place, answer and hold PICTUREPHONE calls for your boss, even though you don't have a display unit.

To Place a PICTUREPHONE Call

- 1 Depress a Line Button.
- 2 Lift the handset, and when you hear the dial tone, dial the prefix "#" followed by the desired 7 or 10 digit number. (After completion of dialing, a steady red light will show beneath the depressed Line Button indicating a PICTUREPHONE call.)
- 3 When you've been connected to the distant party, proceed as you would with any other call.

To Answer a PICTUREPHONE Call

A flashing red light beneath a Line Button indicates an incoming PICTUREPHONE call.

To answer the PICTUREPHONE call:

- 1 Depress the flashing Line Button.
- 2 Lift the handset (the Line Button will show steady red light).
- 3 Proceed as you would with any other call.

To Hold a PICTUREPHONE Call

- 1 Press firmly and release the HOLD button.
- 2 To place or to answer a second call refer to the instructions described in the two previous sections on placing and answering calls.
- 3 To return to the original call, depress the Line Button associated with that call.



PPT 2-69