Model AR-500 Trans•View

Color Image Facsimile System

(PRELIMINARY EDITION - REFERENCE ONLY)

Instruction Manual

AOR, Ltd.
Communication Products & Systems

Model AR-500 Trans-View

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FCC NOTICE

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, had cause interference to radio communications. This equipment has been tested and found to well exceed the limit for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. If this equipment does cause interference to radio or television reception, which you can determine by turning the equipment off and on, try to correct the interference by one or more of the following measures:

Move the computing device away from the receiver being interfered with.
Relocate the computing device with respect to the receiver.
Re-orient the receiving antenna.
Plug the computing device into a different AC outlet so that the computing device and receiver are on different branch circuits.
Disconnect and remove any I/O cables that are not being used. (Unterminated I/O cables are a potential source of high RF emission levels.)

If you need additional help, consult your dealer or ask for assistance from the manufacturer. You may also find the following booklet helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

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1. SPECIFICATIONS

Product	AR-500 Still Image Color Facsimile System
Operating Mode	AOR original SCFM format and protocol Color 48, 72 second mode Black & White 24, 36 second mode
Video Input / Output	PAL Asynchronous 4fs sampling / 75Ω 1V p-p
Decoder Input	OdBs (+10dBs to -30dBs)
Encoder Output	OdBs
Image Memory	1 Frame (Maximum 4 by optional memory.)
Modulation	VCO modulation by DSP
Demodulation	Arctangent Angle demodulation by DSP
Color Decoding	Digitally processed by DSP
Processor	TMS-320 16-bit DSP
COM. port :	DE-9S for expansion and Interface to PC or Special mouse for drawing
Power Requirement	DC 13.8V \pm 1.5V at minimum 500 mA. 350 mA for typical power consumption.
Dimensions	140 x 40 x 215 mm - 5.5 x 1.5 x 8.5 inch
Weight	950 grams (1.5 lb.)
Accessories Supplied	DC power cord, 5pin DIN plug, 8pin Radio plug, VIDEO cable and Instruction Manual.

AOR, Ltd. reserves the right to discontinue products and changes specifications at any time without incurring any obligations to incorporate new features in products previously sold.

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2. INTRODUCTION

2-1. GENERAL DESCRIPTION

AOR model AR-500 Trans•View is the latest addition to the AOR's growing family of Imaging Communication Products.

The Trans•View has been designed for the two-way video communications. It is capable of transmit and receive full-color, television-quality still images, over standard analog radio, telephone and cellular lines.

The **Trans**•View is ideal for Business, Commercial and Professional users. For example; In advertising agencies and manufacturing firms who need to transmit and receive high-quality, high-resolution pictures, diagrams, engineering drawings, etc., without regard to time and distance constrains.

The **Trans•View** is also ideal for the public safety, military, security and news/broadcast applications where traditional video transmission for a distant point are impossible. Since the **Trans•View** can easily be adapted to an existing voice grade circuit, including land mobile radio, maritime radio, airborne radio, long distance SSB radio and even through satellite link.

The Trans•View is using advanced DSP Technology to offer superior picture quality and extremely simple operation. Intelligent design of the unit allows stand alone operation. No PCs are absolutely necessary. It's DC operation and compact size allows even mobile operation.

Extra fine and standard resolutions are provided for both full color and Black &White operation. Image frame memory, Telephone line interface, Built-in Microphone relay, Computer interface, DAT compatible recorder jack, Monitor speaker, Rugged metal case, DC operation are all standard features of the Trans-View.

2-2. EQUIPMENT LIST

AR-500 Trans. View

At least two AR-500s are needed. One for originating station and the one for distant station. The unit is designed to run DC 13.8V power source so that you may need to hock-up car battery for mobile use.

INTRODUCTION

GENERAL DESCRIPTION

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MEDIA EQUIPMENT

In addition to the AR-500 and power supply, the **media** is needed.

Typical media for the **Trans-View** is a standard telephone line or radio equipment such as transceiver, transmitter or receiver. The **Trans-View** is not a media sensitive equipment thus Cellular phone, IMTS and satellite link can be used.

For an one-way image distribution by radio wave, you may replace receiving side to a conventional scanners or receivers.

IMAGE CAPTURE DEVICE

A commercially-available image capturing device namely; camcorder, electronic camera, Video tape recorder, Image scanner or VCR etc. The device must have video output for connection. The Trans. View is also designed to accept a Black & White device, such as CCD camera, Infrared camera or low light camera that has compatible video output.

IMAGE DISPLAY DEVICE

A commercially-available image display device namely; TV, TV monitor, Video Printer or a flat-panel LCD monitor, etc. The device must have video input.

2-3. APPLICATIONS

As a result of extensive market research, AOR found that **Trans•View** has application beyond commercial use. Potential **Trans•View** application include distant learning, presentation, remote consultation, experts extension, design exchange, concept exchange, field service assessment- maintenance, remote surveillance, remote security and news gatherings.

In Medical Emergency application when the system is tied to existing telephone or cellular phone, the **Trans-View** could be used as a part of remote treatment by allowing doctors to see and discuss special procedures and / or pharmaceutical updates etc., as part of second option remote consultations.

In Field Engineering / Construction / Manufacturing, the Trans-View would allow for the image transmission from a remote site, or can be exchange of engineering drawings, blueprints, parts and components, and proto type models.

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The figure 1 and table 1 shows typical combination of the Trans-View and associated video equipment list.

3. INSTALLATION

3-1. GENERAL

Before you can perform "Operational Test"; which follows in this section, you will have to properly connect your Trans. View to an image capture device and image display device. In addition, you will have to connect the Trans. View to your media equipment such as telephone line, radio transceiver, etc.

It is beyond the scope of this manual to show you how to connect your Trans•View to every kind of media equipment. It does however, provide you with information for common media equipments. If your particular equipment is not listed, you can probably adapt the information that is presented to suit your needs. The supplied information is based on the connection to public telephone line and radio equipment as a guide line of system setup.

3-2. CAPTURE DEVICE

Refer to Figure 2 while you read the information. The Trans•View can accept only the video device that is complied with NTSC (National Television Standard Committee) composite video format. Video devices such as video camera, camcorder sold in the United States are comply with this format. Connect Video output to the VIDEO IN jack of the front panel using shielded cable with RCA plugs on both end.

3-3. DISPLAY DEVICE

Depending upon your system layout, you can connect Image display device to the VIDEO OUT jack of the rear panel. The display device must have composite video input. For two-way video communication, you will need to connect display device to this jack on both stations.

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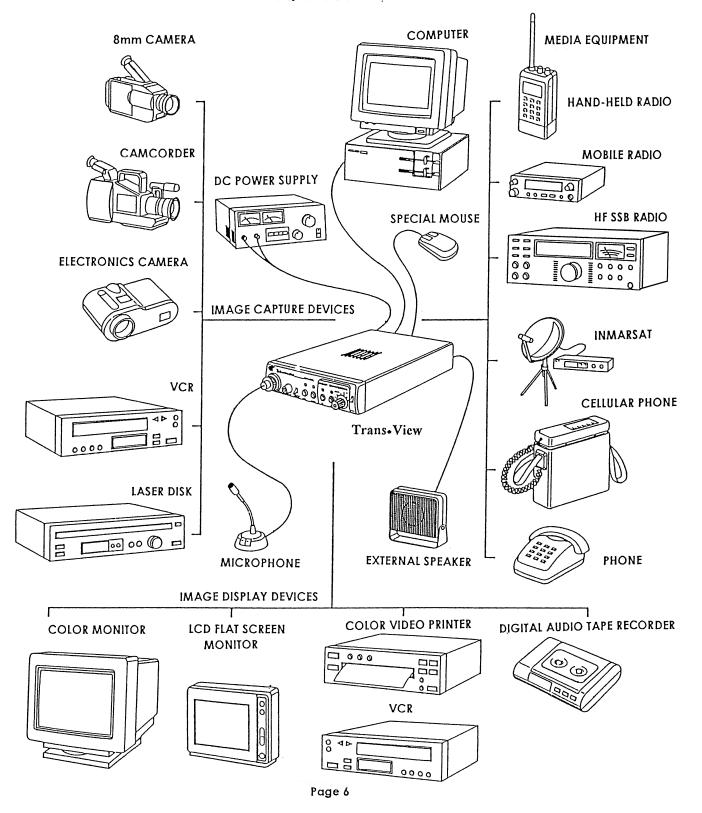
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Figure 1
EQUIPMENT SETUP



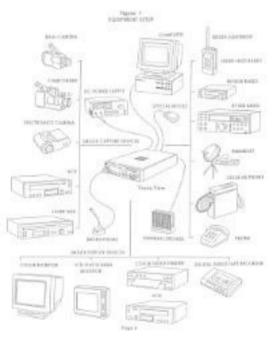


Table 1 EQUIPMENT LIST

Equipment List	Special Note	MOD
SOURCE IMAGE		
Composite Video Camera	Need to have NTSC color Video format	1
Camcorder	VIDEO output is required.	1
8mm Video	VIDEO output is required.	1
Electronic Camera	VIDEO output is required.	1
VCR	Can be used to send pre-recorded image.	1
DAT	Can be used to send pre-recorded image.	1
Laser Disk	Check copyright law. (Private use only.)	1
DISPLAY & LOCAL MONITOR		
Monitor TV	VIDEO input is required. (Monitor local image.)	1
Flat LCD Display	VIDEO input is required. (Monitor local image.)	1
Video Printer	Print incoming image.	1
RECORDING		
VCR	Record image from a distant station.	1
DAT (Digital Audio Tape)	Record image from a distant stalion.	1
MEDIA		
Mobile Radio	Ideal for short range.	2
Hand-held radio	ldeal for field use.	2
HF SSB Transceiver	Ideal for long distance.	2
INMARSAT-C	International maritime phone.	2
Cellular Phone	To access public telephone link.	2
IMTS Phone	To access public telephone line.	2
Telephone	To access public telephone line.	1
Receiver / Scanner	To receive broadcasted image.	1
ACCESSORY		
PC	Image enhancement	2
Mouse	Add drawing to the image.	2
Super imposer	Add characters or other effects to the image.	2
Video Titler	Add characters or other effects to the image.	2

MOD: This column indicate the level of interfacing.

- 1- Almost no modifications are required.
- 2- Must provide interface cable and level adjustment.

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3-4. PUBLIC TELEPHONE LINE CONNECTION

You can use **TEL** and **LINE** modular jacks to connect **Trans**•**View** to a public telephone line.

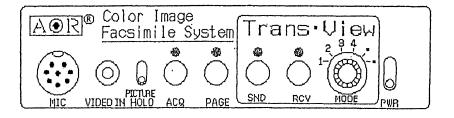
Connect telephone set to the **TEL** and connect telephone line to the **LINE** using cables with modular type plugs.

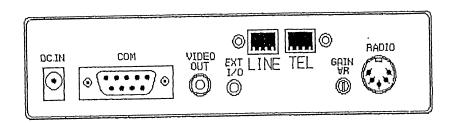
3-5. RADIO CONNECTIONS

You can use the RADIO jack to connect radio equipment such as transceiver.

The front panel MIC jack is provided for a connection of microphone. You may connect hand-held microphone to this jack if you want to use your radio for both voice and video transmission. Microphone circuit is disabled when the Trans•View is transmitting video signal.

Figure 2
Front & Rear Panel





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5-5. BADIO CONNECTIONS

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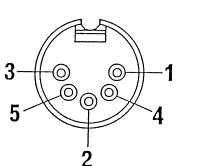
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Figure 2-1 shows the connections for the **RADIO** jack. A DIN connector that fits this jack is provided. You will have to use high quality shielded cable to make radio cable.

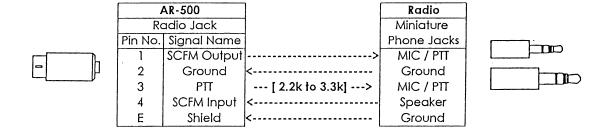


	AR-500		RADIO
Pin No.	Signal Name		
1	AFSK Output]>	MIC
2	Ground	<	Ground
3	РΠ	<	PTT
4	Modem Input	<	Speaker
5	NC		
6	NC		
E	Shield	<	Ground

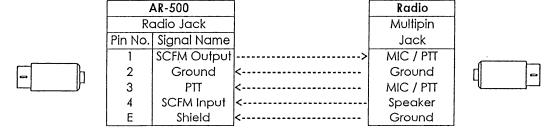
Figure 2-1 DIN connector

Most of the portable hand-held transceivers and mobile transceivers should work with the **Trans-View** with no special modifications.

Typical portable transceiver connections



Typical mobile transceiver connections



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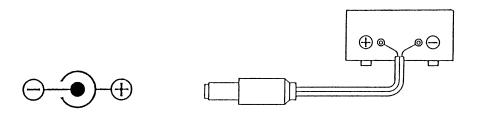
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3.5 POWER SOURCE

To power your Trans•View, you will either need an external power supply or a battery. An external power supply must be able to provide 10 to 13.8 VDC at 500mA. The black/red power cord which comes with the Trans•View can be used to connect the power source. Refer to Figure 3.

Figure 3
DC POWER SOURCE



4. OPERATION

This section describes operational tests you can perform to make sure your **Trans-View** is connected and operating properly. This section also describes the function of each controls, indicators and jacks. Refer to figure 2.

4-1. OPERATIONAL TESTS AND ADJUSTMENT

TELEPHONE EQUIPMENT

PRELIMINARY TEST - ACQUIRE IMAGE

Make sure you have the Trans-View connected to a suitable power source. Also make sure you have the Trans-View connected to your telephone line, video capturing device and video display device as described in the "INSTALLATION" section of this manual.

1. Turn the **POWER** switch ON. Some LEDs may light briefly and then extinguish. If the **PICTURE HOLD** switch is OFF (Down), the **RX LED** should light.

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4-1. OPERATORAL TESTS AND ASSESSMENT

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- 2. If the PICTURE HOLD switch is not an OFF position, turn this switch downward.
- 3. Push ACQ switch once. The ACQ LED start blinking. If the video camera is connected, you will see the picture from the monitor screen. If no picture is seen from the screen, you must check your video source. (If you use camcorder as a video source, make sure that the camera is recording.)
- **4.** Push **ACQ** switch once again. The **ACQ LED** stop blinking and may light. As soon as image from the camera is acquired by the **Trans•View**, this LED may extinguish and at the same time, you will see the still picture on the monitor TV.
- 5. If you wish to acquire different picture, do the above procedure 3 and 4.
- 6. Turn PICTURE HOLD switch to ON (Upward).
- 7. Push ACQ switch as described in 3.
- 8. Push ACQ once again as described in 4.
- 9. Push ACQ once again so that you can see the live picture from the camera. Once you push ACQ toggles between local live picture and the still picture in the Trans-View's video memory.

PRELIMINARY TEST - IMAGE TRANSMISSION & RECEPTION

To proceed this test, you may need other set of Trans. View.

- 1. Acquire image as described previous section.
- 2. Select transmission mode by MODE selector. Refer to Table 2 of each function.
- 3. Place a phone call to establish voice communication with the other end. Once voice communication is established, place your telephone handset away from the Trans•View. If your telephone equipment has mute switch, push it to mute the background noise.
- **4.** Push **TX** switch momentary to start transmission. The **TX LED** will lit to indicate that the AR-500 is transmitting captured image. If you need to stop transmission, push the RX switch. This will force the **Trans•View** to stop transmitting.
- **4.** At the distant station, first answer the phone call and place telephone handset away from the **Trans**•**View**, once the unit start receiving the image, the **RX LED** start brinks. This indicate that the unit is receiving image and at the same time the picture can be screen.

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5. Turn PWR switch to OFF. It will erase the image in the Trans-View.

RADIO EQUIPMENT

Operation through the radio equipment is almost same as the operation using telephone line. It is important that the radio link should be free from the noise to ensure highest quality picture transmission and reception. Be sure that the both transmit and receive station has same mode switch setting.

TABLE 2 Mode Switch

Mode Switch	Mode	Function			
1	Black & White 24 second	For Black & White camera format.			
		Transmit/Receive still image on 24 seconds.			
		Standard Resolution : Approx 240 lines.			
2	Black & White 36 second	For Black & White camera format.			
		Transmit/Receive still image on 36 seconds.			
		High Resolution : Approx. 480 lines.			
3	Color 48 second	For Color camera format.			
		Transmit/Receive still image on 48 seconds.			
		Standard Resolution : Approx. 240 lines.			
4	Color 72 second	For Color camera format.			
		Transmit/Receive still image on 72 seconds.			
		High Resolution : Approx. 480 lines.			
•	OEM Mode	Not used. For future use.			
•	OEM Mode	Not used. For future use.			

4-2. SUMMARY OF CONTROLS

FRONT PANEL

PICTURE HOLD Picture Hold switch

Activate and De-activate over drawn function by new image. If this switch is HOLD position, **Trans-View** will not capture new image.

PASIC EQUIPMENT

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ACQ : ACQUIRE SWITCH has two functions. When;

PICTURE HOLD - ON (UP)

ACQ switch toggles between LOCAL IMAGE from the attached camera and IMAGE on the VIDEO

MEMORY.

PICTURE HOLD - OFF (DOWN)

When acquiring the image, push this switch momentary to monitor the picture from camera. To capture the image, push this switch again.

PAGE: Page switch

If an optional video memory is installed, push this switch page name the image in the memory. You

can advance the page number from 1 to 4

repeatedly. No effect when no extra memory is

installed.

TX : TRANSMIT SWITCH

Push this switch momentary to transmit the captured

image in the memory.

RX : RECEIVE SWITCH has two functions.

Forced TX STOP: Push this switch momentary

to stop transmission.

Forced Receive: Push this switch to start

reception on the mode selected by MODE switch.

MODE: MODE SWITCH - Refer to Table 2.

PWR : POWER On/Off

If the PICTURE HOLD is off (DOWN) RX LED will

lit when power is applied to Trans-View.

MIC Connection for external microphone for

voice communication.

VIDEO IN Connect video camera, camcorder etc.

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BACK PANEL

DC IN Connect DC power source. Need DC 13.8V

at minimum 500mA power supply. Use supplied Black/Red code to connect the power supply.

COM. : Communication Port for future expansion and

options.

VIDEO OUT Connect Video monitor, LCD display etc.

EXT. I/O : Auxiliary modulator and demodulater input/output

port. Refer to section 5 of this manual.

EXT. SP Connect External Speaker. When speaker is

connected to this jack, internal speaker is

disconnected. Use GAIN VR to adjust audio level.

LINE / TEL Connect Telephone set and telephone line.

Connect Telephone to TEL and telephone line to LINE using modular plug. Since **Trans-View** doe not

provide NCU (auto answer) functions, you must connect and answer the phone manually.

Trans•View only support manual transmission and

reception.

GAIN VR Use to adjust the monitoring audio level.

RADIO Provided for a connection to radio equipment.

Refer to the section 3-4 of this manual.

4-3. ADJUSTMENTS

To optimize the performance of the **Trans•View**, some adjustments are needed. One adjustment you can do easily is the **GAIN VR** located on the back panel.

This control changes output from the internal monitor speaker or external speaker if it is connected.

If you need to adjust the monitor sound level, use this control. If your picture contains some noise, increase your radio's volume slightly and adjust this control for a comfortable monitoring level. Some controls and jumpers are inside of the **Trans**•View. Refer to figure 4-1 the location of controls and jumpers.

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4.3 ADDITIMENTS

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To access the main circuit board, be sure to disconnect all cables and power from the **Trans-View**. Remove 4 screws from the bottom of the unit. Then carefully remove the cabinet.

MODULATION LEVEL: Volume pot (VR-1) is provided to adjust the output level to your radio equipment.

If the radio equipment does not provide you with the microphone gain control, use this volume pot to increase/decrease the output to your radio equipment.

COM. PORT SELECT: JP-1 selects the usage of DE-9S connector located on the back panel. When the jumper is removed, the port is for the connection to PC. The factory default is for a connection of optional serial mouse for drawing on the captured image.

SERIAL LEVEL SELECT: JP-4 is provided for a serial level selector. No need to change the setting.

OPTIONAL VIDEO MEMORY: JP-3 is provided for an optional video memory. No need to change the setting. Refer to the instruction comes with an optional video memory.

Figure 4-1

Control and Jumpers

VR-1 MODULATION LEVEL

PTT PULL-UP RESISTOR SELECT

JP-3 VIDEO MEMORY SWITCH

Page 15

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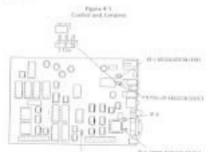
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4-4. OPERATION USING EXTERNAL MICROPHONE Two-Way radio Application

The **Trans•View** has a built-in microphone relay. This means that you can use your radio equipment for both voice and video transmitter. If the microphone is connected to the **Trans•View**, you will see the following result.

Trans. View is Off Normal voice operation.

Trans•View is On Normal voice operation when AR-500 is not transmitting.

Trans•View is TX When Trans•View is transmitting, microphone is disabled until video transmission is completed.

Note: When TX switch is pressed during the voice transmission, the Trans-View overrides the voice operation, and picture is being transmitted.

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Figure 4-2 Microphone Connection

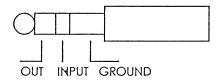
5. EXTENDED OPERATION & APPLICATIONS

EXT. I/O JACK

EXT. I/O jack is provided to connect high quality recording equipment, such as DAT and MD. Typical application is first recording receiving signal from the receiver, then apply the signal to produce the picture.

Reversely, you may record the picture through this jack and then apply the signal to your transmitter for transmission.

Use miniature stereo plug supplied with **Trans•View** to furnish EXT. I/O cable. Use high quality shield cable when you furnish the cable.



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MEMORY MODULE (OPTION) - P/N EM-3S

This option allows to store receiving (transmitting) image up to 4 frames. If the memory is installed, you can page the frame by PAGE switch on the front panel.

MOUSE (OPTION) - MM-100

This option allows to add lines, drawing on the image. Mouse unit is connected to 9-pin jack on the back panel.

APPLICATION

Figures 5-1 to 5-4 shows typical application on the Trans•View with different types of media equipment.

Figure 5-1 shows typical set-up with two-way radio equipment. Since the **Trans-View** uses in-band of voice signal, the radio can be a conventional two-way radio, trunked radio, VHF marine radio and more.

Figure 5-2 shows Trans-View uses as an color FAX alternative. If the VIDEO PRINTER is connected instead of TV monitor at receiving side, the printer prints video image taken by remote station.

Figure 5-3 shows **Trans-View** connected to telephone line. The operation of phone line is the same as cellular operation. First make a phone call and send a picture to a distant station.

6. IN CASE OF DIFFICULTY

Your Trans•View was thoroughly checked at the factory to make sure it operates properly prior to shipment. In most case, any problem you experience with the unit will be external (wiring or configuration, etc.). The following "Troubleshooting Guide" should help you determine several common problems.

☐ SYNCHRONIZATION ERROR

Although, the **Trans•View** has an AFC circuit to compensate frequency error, you must tune your receiver within +/- 100 Hz. (When using SSB mode.)

Also you must check whether the signal contains outside noise. Some noise will appear on the displayed image but heavier noise causes the synchronization error.

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☐ AUTOMATIC START

When using SSB mode, be sure that the receiver is tuned to proper frequency. Also make sure that the received signal does not contain heavy outside noise. Check that the PICTURE HOLD switch is OFF (Down) position.

□ NO PICTURE

When you apply the power to the Trans-View, you will see the plain gray screen if the local monitor is connected. Be sure that the Camera's power is on. If you use a Camcorder as a camera, be sure that the camcorder is recording position.

TECHNICAL NOTE:

The format using Trans•View is an SCFM. The picture is converted to the audio signal between 1,500 Hz and 2,300 Hz with synchronization signal of 1,200 Hz.

Always check your receiver's frequency when operating by SSB mode. Use FM mode if you checkup the system.

SERVICE INFORMATION

If for any reason that service is required, please contact your dealer where the unit was purchased from. If you have difficulty in obtaining service from your local dealer, please contact us direct.

Please include full explanation of the trouble or symptoms together with the detail of associated equipment.

AOR, Ltd.

2-6-4 Misuji, Taito-Ku, Tokyo 110 Japan

Telephone: 81-3-3865-1681 Facsimile: 81-3-3865-1697

Attention : Customer Service Department

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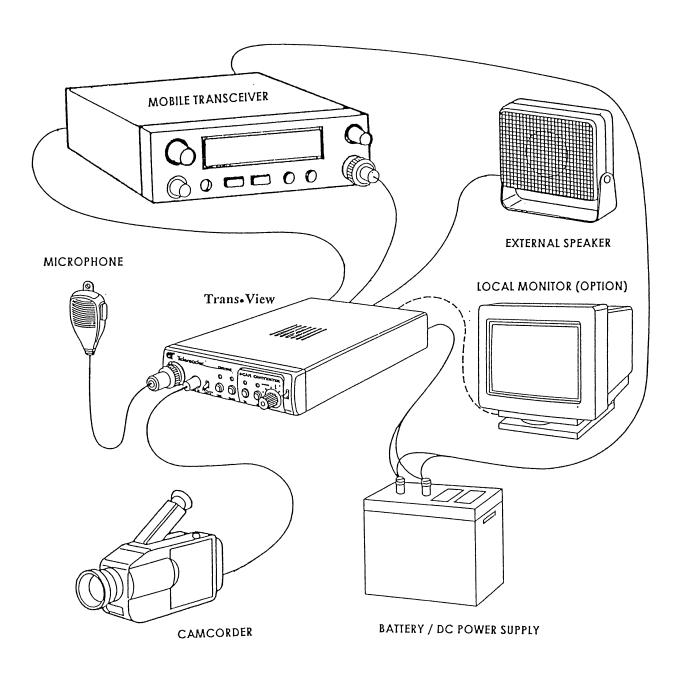
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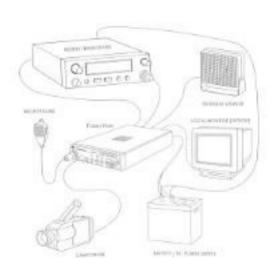
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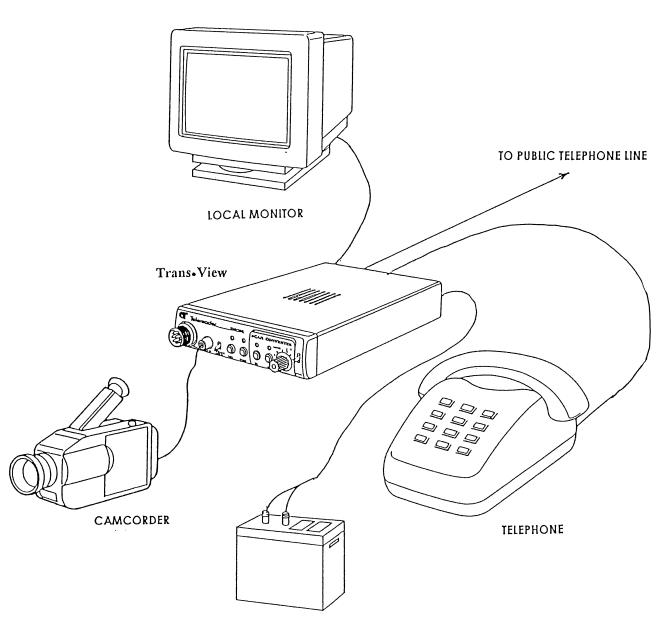
Figure 5-1 Trans-View for TWO-WAY Radio





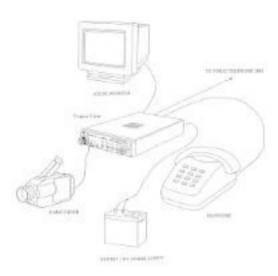
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Figure 5-3 Trans-View for TELEPHONE operation



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