

Exhibit E

User's Manual

ADVANCED VIDEO &
COMMUNICATION INC.
FCC ID.: N9AWS-040-AN
2.4GHZ WIRELESS SECURITY
SYSTEM



ADVANCED VIDEO & COMMUNICATION Inc.

OPERATION / OWNERS MANUAL

2.4 GHz

Wireless Security System



2.4 GHz

Wireless Security Monitor System

FEATURE

- ◆ Monitoring / Amusement Functions
- ◆ AV Input on Transmitter
- ◆ AV Output on Receiver
- ◆ Receiver (Monitor) Moveable
- ◆ No Cable Needed
- ◆ Power by Adapter
- ◆ Plug and Play

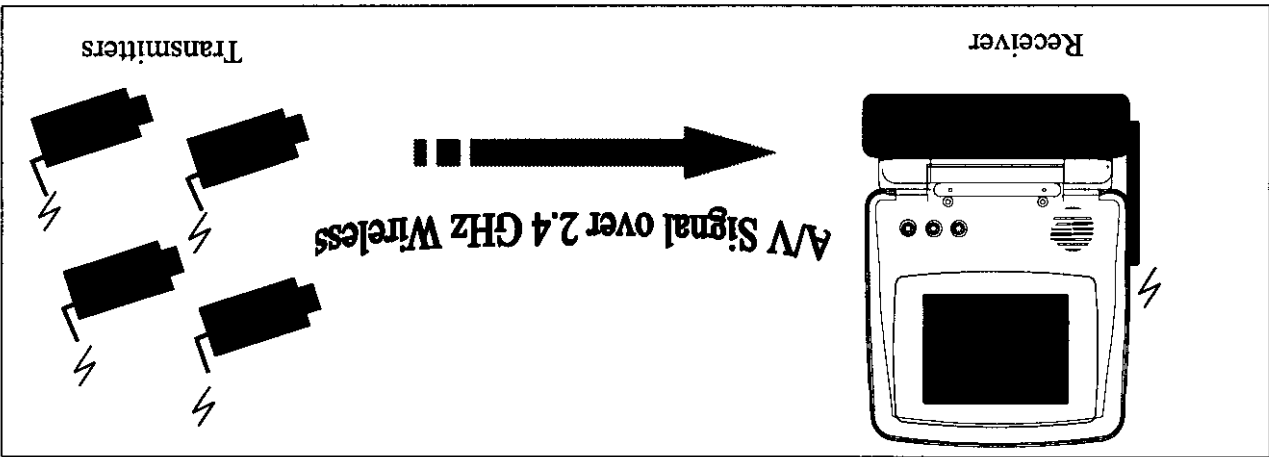
APPLICATIONS

- ◆ Built-in 4" TFT LCD Color Monitor or Connecting to TV
- ◆ Up to 4 Channels
- ◆ SCAN / CHANNEL Functions
- ◆ Baby Sitter
- ◆ Home / Camp Guard
- ◆ Personal Video Security
- ◆ Bank / Company / Factory / Store Monitoring

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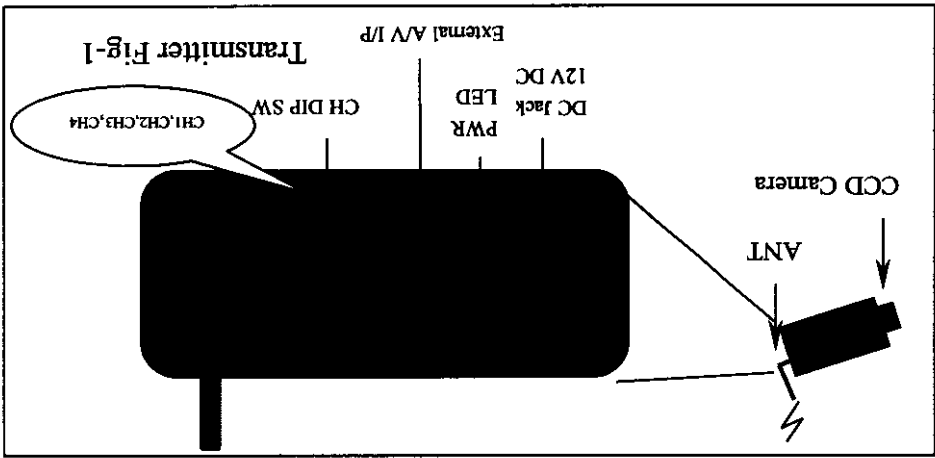
Installation:



Transmitter:

Refer to transmitter Fig-1, connect the AC adapter with DC 12V/800mA output to DC jack, and the power LED will be light on. In the same time transmitter is starting to work.

Up to 4 channels can be used for 1 receiver. Please install them by toggle the corresponding channel DIP-SW to ON.



There is a phone-jack type connector for A/V signal input. Connect A/V signal input to transmit the signal instead of CCD image source. For example, you may setup one channel of TV program and the other channels for security purpose use. Once you remove the A/V signal, the unit will switch the image source to CCD input.

Adjust the border of CCD lens to get the best focus of image.

There are two screw holes, at the top and the bottom. You can use them to install the stand and put the unit on the desk or mount on the wall.

Receiver:

Connect the AC adapter(DC12V/1A) to DC jack and turn the power switch on. Receiver is starting to work and the channel is located on CH1.

There is a RCA type connector on left side and it's for A/V output use. You may connect it to the other CRT monitor/TV or VCR. And there is a phone jack beside the RCA connector. You may connect it to external AV signal instead of air channel which is displayed on LCD.

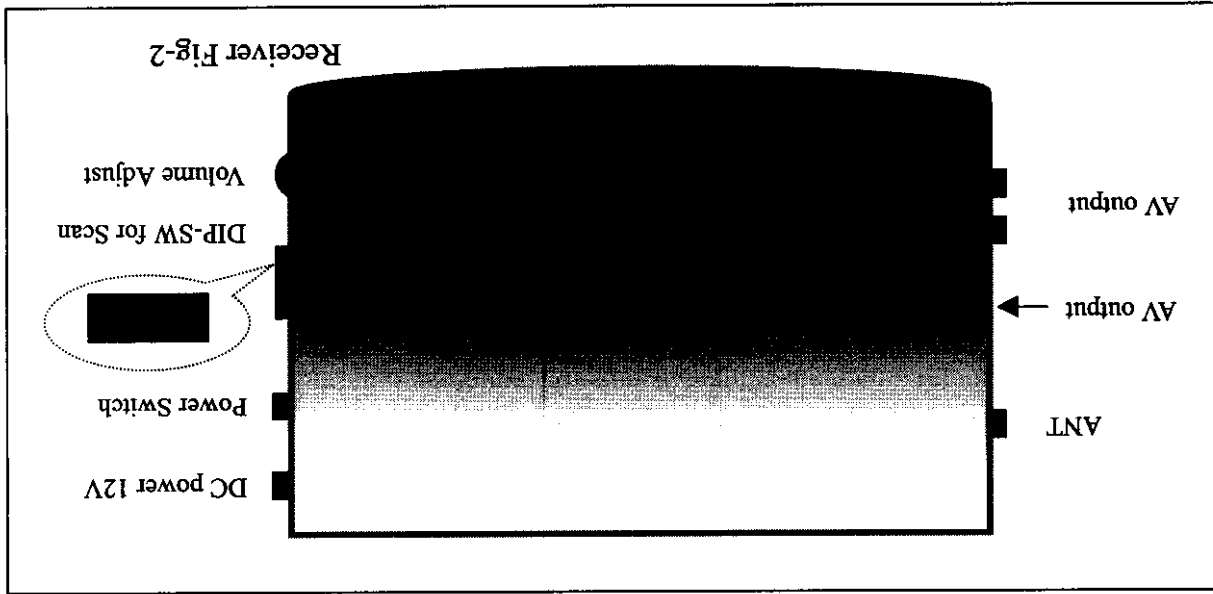
4 LED indicators are corresponding to CH1/CH2/CH3/CH4 indications while Auto-Scanning. Up to 4 channels can be monitored in one receiver unit if you install 4 transmitters. Two feature function keys, SCAN/CHANNEL, to meet your application requirement. Each function is described as below:

SCAN:

Press SCAN key, Receiver will automatically scan those channels which are set to ON by DIP-SW. And each channel will perform for 3 seconds (Default time). To increase the perform time for each channel, hold SCAN key when you want to start the scan function. LED on those channels which are set to ON state will blink. Base on 3 seconds, the perform time will increase 1 second as LED blink 1 time until SCAN key is released and then go to scan. The setting time will be reset to default 3 seconds when Auto-Scan is stop. To stop the scanning, just press the SCAN or CHANNEL key. Means any key will quit from Auto-Scan mode.

CHANNEL:

Press CHANNEL key to switch to next channel. It always scan channel from CH1 to CH4 regardless the setting on DIP-SW.



DIP-SW setting:

DIP-SW is set for activating channel on Auto-Scan mode. If you need the channel to be monitored during Auto-Scan, please set those channels to ON.

* Note:

ALL channels were set on OFF are invalid. The receiver will assume in ALL ON while Auto-Scanning.

ACCESSORIES

Model: AW-040

Stand for Tx unit x 1

Antenna for Tx & Rx unit x 2

Warranty Card

Output ☐ 12Vdc/800mA , for Tx unit x 1

☐ 12Vdc/1A , for Rx unit x 1

Adapter Input ☐ 110 Vac
☐ 120 Vac
☐ 220 Vac
☐ 230 Vac
☐ 240 Vac

SPECIFICATIONS

Items		Specification	
RF interface		Transmitter	Receiver
Output power	0 ~ 10 dBm (PD)	-	-
Receiver sensitivity	-	-	-85 dBm
Frequency range	2.400 ~ 2.4835 GHz	2.400 ~ 2.4835 GHz	CH1: 2.434 GHz
Channel	CH1: 2.434 GHz	CH2: 2.453 GHz	CH3: 2.473 GHz
	CH3: 2.473 GHz	CH4: 2.411 GHz	CH4: 2.411 GHz
Channel Space	20 MHz	20 MHz	20 MHz
Frequency stability	±250 KHz	±200 KHz	FM
A/V modulations type	FM	FM	479.5 MHz
IF Frequency	-	NTSC & PAL	-
Video input format	NTSC & PAL	-	NTSC or PAL (Selection)
Video output level	1 Vp-p @ 75 Ω	-	-
Video output level	-	1 Vp-p @ 75Ω, S/N>38 dB	-
Audio input level	2 Vp-p @ 600 Ω for L&R	-	-
Audio output level	-	1.45 Vp-p @ 600 Ω for L&R	50Ω SMA jack
Antenna interface	50Ω SMA jack	50Ω SMA jack	TFT 4" Diagonal
LCD Display	-	-	Top:30°/Bottom:10°/Left:45°/Right:45°
View angle	-	300 mA	800 mA
Power consumption	300 mA	0°C ~ 40°C	0°C ~ 40°C
Operating temperature	0°C ~ 40°C	64(W)×120(L)×55(H) mm	161(W)×170(D)×68(H) mm
Dimensions(mm)	64(W)×120(L)×55(H) mm	315 g	915 g
Weight (g)	315 g		

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Pick-up Element	1/3 inch CCD image sensor
Scanning	2 : 1 interlace 492(V)×512(H) For NTSC or 582(V)×512(H) for PAL
Minimum Illumination	1.5 lux at F2.0/F3.6 ~ F3.8mm
S/N Ratio	48 dB
Gain Control	Automatic
White Balance	Automatic
Back Light Compensation	Yes
Video Input/Output	Composite Video
Screen Size	4 inches (diagonal) TFT-LCD
Resolution (Dot)	480(H)×234(V)=112,320 dots
Dot Pitch	0.71(W)×0.264(H) mm
View Angle (Left, Right)	45 degree
View Angle (Top)	30 degree
View Angle (Bottom)	10 degree
System Type	NTSC/PAL
*The specifications are subject to change without prior notice.	
1. Channel LED status indicators	
2. Power indicator	
3. Feature 2 control keys	
SCAN -- Automatically channel stepping	
CHAN -- Channel switch	
4. Color TFT LCD display or connect to TV display	
5. Up to 4 CHANNEL to be monitored	

Model: WS-040-AN
FCC ID: N9AWS-040-AN
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS.
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,
INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE
OPERATION.
MADE IN TAIWAN

Notice: The changes or modifications not expressly approved by the party responsible
for compliance could void the user's authority to operate the equipment.

FCC APPLICATION FOR CERTIFICATION

FOR

ADVANCED VIDEO & COMMUNICATION INC.
IF, NO. 11, LANE 485, SEC. 1, KUANG FU RD.,
HSIN-CHUN, TAIWAN, R.O.C.

FCC ID.: N9AWS-040-AN

NOV., 1998

Submitted to:

Federal Communications Commission
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