OPTOCOM OPERATORS MANUAL

FRONT PANEL
VOLUME KNOB
SQUELCH KNOB
SQUELCH LED
DATA LED
POWER LED
PHONE JACK

- adjusts volume level
- adjusts squelch level
- yellow light indicates active signal
- blinks to indicate that data is being sent to Optocom
- red light indicates power On
- connect 3.5mm plug stereo headphones
Frequency Coverage:

- 25-28 MHz (HF)  
- 28-30 MHz (6-Meter Amateur Radio)  
- 30-50 MHz (Land Mobile Service Broadcast, Wide Band)  
- 50-54 MHz (6-Meter Amateur Radio)  
- 75-78 MHz (FM Radio Broadcast, Wide Band)  
- 108-118 MHz (FM Stereo)  
- 118-136 MHz (2-Meter Amateur Radio)  
- 146-174 MHz (VHF Hi)  
- 174-216 MHz (FM-AM Video Broadcast, VHF Wide Band)  
- 216-224 MHz (VHF Hi, 1.44 Meter Amateur Radio)  
- 225-399 MHz (Military Aircraft)  
- 400-450 MHz (UHF Lo, 70-Centimeter Amateur Radio, Government)  
- 450-520 MHz (UHF Hi)  
- 606-614 MHz (UHF Hi)  
- 760-768 MHz (UHF Hi)  
- 806-880 MHz (UHF Hi)  
- 880-956 MHz (Private Fixed Services, Paging, Aircraft NAV/COM, Experimental, 23 Centimeter Amateur Radio)
Note: 162.55 is not active in all areas.

Adjust Squelch and Volume to see if a signal is present. The Optimcom is set to receive the NOAA Weather feed.

To turn the Optimcom on, locate the POWER switch on back of the Optimcom and push it in.

For an RF-8 or RG-8 such as RG-8S or RG-8, you may need a PL-259 to BNC antenna plug adapter.

Although the Optimcom will accept any type of antenna with a BNC connector or 50 Ohm coaxial cable, attach the T100S antenna with right angle BNC to the antenna connector on the back of the Optimcom.

Plug the AC90 power supply that came with the Optimcom into the DC 12V power jack located on the back of

Installation

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Connecting To The Computer

There is an Optoelectronics full function program on the enclosed utility disk that may be used to verify that the Optocom is working properly. To use the Optocom.exe program follow the instructions.

- Plug the male end of the DB9 to DB9 serial cable that came with the Optocom into the RS-232, 9 pin connector on the back of the Optocom.
- Plug the Female end of the DB9 cable into an available COM port on the back of the computer.
- Install the utility disk into the A: drive of your computer.
- Select Run from your Windows Program Manager (3.1) or from the Start menu (95 and 98).
- In the RUN dialog box type A:\Optocom.exe
- You will now be in the program. Next, select the correct Com Port from the screen.
- If the Optocom communicates with the program the control screen will appear with the default frequency of 162.5500MHz in the top left hand corner.
- If unable to communicate the screen will say “Unable to communicate with Optocom”. If unable to communicate check to make sure that the serial cable is attached properly and that COM PORT setting is correct.
The Oprocom is capable of running under 35 emulation mode.

The Oprocom may be used with the Oprocom under 35 emulation mode.

Exit the program by pressing CTRL X

When the main screen comes up, press the M key to toggle between Oprocom and 35 emulation mode.

Enter the Oprocom.exe program as described on the previous page.

The Oprocom is compatible with existing software programs under a special mode called 35 emulation mode. This mode allows the Oprocom to be configured as an O3S3. So as to be compatible with programs that support an OS3.3, the program is configured to be compatible.

Please refer to the software you can not be addressed in this manual but should be addressed in each separate program. Each program will have different requirements that are unique to the software application.

535 Emulation Mode
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Using the Optocom when not connected to a computer

Store and Scan
While the Optocom is used primarily for computer controlled scanning and monitoring, it can be used while not attached to a PC. The Store and Scan feature allows for the uploading of up to 100 different frequencies into the non-volatile, internal memory of the Optocom. Once the frequencies are uploaded through the computer the Optocom may be disconnected from the computer for non-PC operation at 60 channels per second.

Note: Once the Optocom has been put in Store and Scan mode through TrakkStar and turned off, it will default to that mode when powered on again. If you want to use a software program other than TrakkStar you will need to disable Store and Scan mode. Enter the Optocom.exe program to disable Store and Scan.

Upload Frequencies

- Connect the Optocom to the computer using the supplied serial cable.
- Load Trakkstar and open the Data Manager
- Choose FILE in the Data Manager Window
- Choose NEW/GROUP, choose OPEN/GROUP for a stored SWG file
- At the New Group window choose OK and name the New Group (example: Your Name.SWG)
- At the Group window double click the numbered location and type the frequency at the blinking cursor, followed by entering as many frequencies as needed
- Choose RADIO/TRANSFER COMPUTER TO RADIO or F8
- Enter the total number of frequencies to transfer and choose enter
- Would you like to enable the OptoCom stand alone feature? Choose YES

Note: If the Optocom encounters a blank memory location it will stop at that point and start scanning from the first frequency. This allows the monitoring of a single frequency without scanning additional memory locations.
Turn Opalcon on first and then turn on the Screen, Super Screen or Mini Screen in C-5 mode.

Be sure that the Screen, Super Screen or Mini Screen are in C-5 mode.

Jack in the Opalcon.

The CBR cable connects to the C-5 jack on the Screen, Super Screen or Mini Screen and to the 2.5mm C-5.

Connect the Screen, Super Screen or Mini Screen using the optional CBR cable (2.5mm to 2.5mm mono) from

are close by. Opalcon will only interface to the Screen, Super Screen or Mini Screen when not connected to the computer.

Opalcon Tuning

Opalcon Tuning is ideal for coloring and monochrome television receivers.
Connecting additional equipment

Connecting Headphones
Optional headphones may be connected via the PHONE jack located on the front panel of the Optocom. Use headphones with a mono 3.5mm plug. Connecting headphones will disable the internal speaker of the Optocom.

Connecting External Speaker
Use an 8-Ohm external speaker that is capable of handling over 2.5 watts of power. Using a mono cable, plug the external speaker into the EXT SPKR jack located on the back of the Optocom. Using an external speaker disables the internal speaker of the Optocom.

Connecting Tape Recorder
Wire a mono cable from the audio or microphone input of the tape recorder to an RCA plug for input to the TAPE OUT jack on the back of the Optocom. The TAPE PAUSE connector on the back of the Optocom may be used to control the On/Off function of the tape recorder. Use a mono cable to plug from the tape remote jack on the tape recorder to the TAPE PAUSE jack on the Optocom.

Connecting CI-5 Devices
The Optocom is equipped with (1) 2.5mm and (2) 3.5mm CI-5 jack connectors. The 2.5mm jack can be used for interfacing to the Scout Frequency Recorder for the purpose of Reaction Tuning. Use the 2.5mm CBRT mono cable available from Optoelectronics. The 3.5mm jacks can be used for interfacing multiple Optocom's or other CI-5 receivers. Use a 3.5mm mono cable. Some software may not support multiple receiver capability.
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Specifications

Frequency Range: 25-520MHz, 760-823.995MHz, 849.005-868.995MHz, 894.005-1300MHz

Sensitivity:

AM (20dB S/N with 60% modulation)
2uV@25-520MHz, 760-1000MHz, 5uV@1000.005-1300MHz

NFM (20dB S/N at 3kHz deviation)
0.5uV@25-520MHz, 760-1000MHz, 3uV@1000.005-1300MHz

WFM (30dB S/N at 22.5kHz deviation)
3uV@25-520MHz, 760-1000MHz, 10uV@1000.005-1300MHz

Selectivity:

AM: -6dB@ +/-6kHz, -50dB@ +/-12kHz
NFM: -6dB@ +/-10kHz, -50dB@ +/-20kHz
WFM: -6dB@ +/-150kHz, -50dB@ +/-300kHz

Scanning Rate: Up to 65 channels per second

IF Rejection: 612MHz@ 70MHz(NFM) / 60dB, 612MHz@ 1000MHz(NFM) / 60dB

Built-in Speaker: Audio Output Power (10% THD) / 1.3 Watts Nominal
Specifications Cont.

Tape Out Jack (2=10kOhm) 600mV Nominal
EXT Speaker Jack, 1.8A rms
Headphone Jack, 1kOhm

Audio Output Power:
12 Vrms, 10 Watts Power Supply Included

Power Requirements:
DC

Antenna Impedance:
50 Ohms

Frequency Range:
40dB@25-250MHz, 760-1000MHz, 150V@1000 MHz, 1500-13000MHz

RF Input (FM)
0 dBm@25-250MHz, 20dB@1000MHz, 1500-13000MHz

AM/NFM Threshold:
25dB@25-250MHz, 150V@1000 MHz, 1500-13000MHz

Squelch Sensitivity:

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