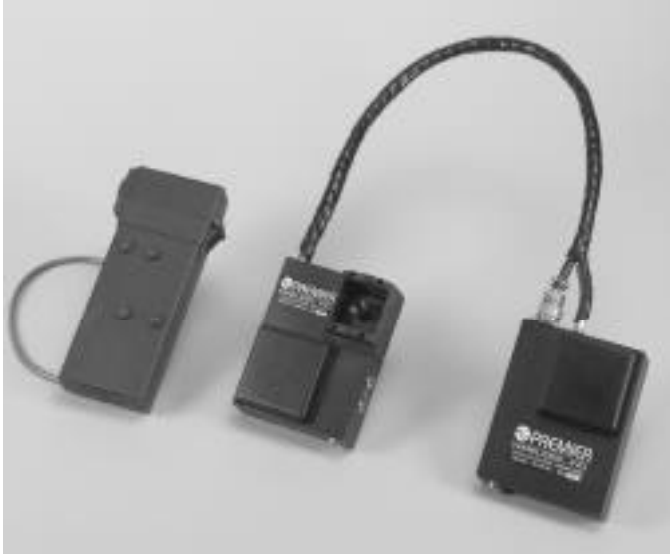


# WIRELESS VIDEO COMMUNICATIONS

## TACTICAL VIDEO SYSTEMS

## TVS-100 and 200 Series



*Body Worn TT-100 Tactical Unit*

The TVS-100 Tactical Video System is a body worn wireless communication system that transmits live full motion video and audio to a command post.

The signal can be received up to a mile away and displayed on any standard TV monitor. Strategically placed repeaters (available 4th quarter) route signals around and through structures such as steel enclosures, buildings, ships and subway tunnels and can increase the range up to four miles.

Totally self-contained the body worn unit includes camera, transmitter, battery pack and antennas and weighs less 3.5 lbs. The system complies with all regulatory health standards concerning exposure to uncontrolled emissions of RF and microwave signals.

### APPLICATIONS

- Remote Surveillance
- SWAT Operations
- Emergency Response
- Training

### Product FEATURES

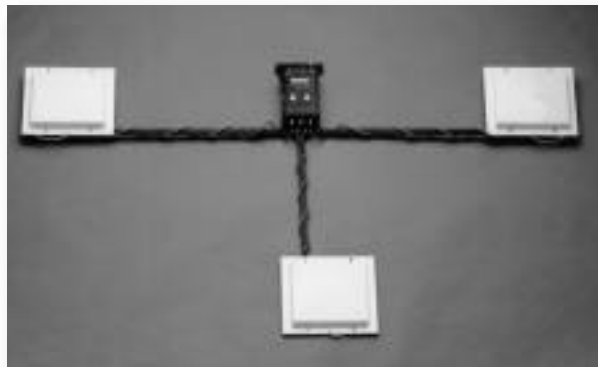
- Detachable high resolution camera with 30 inch cable.
- Auxiliary video/audio inputs & outputs for optional video sources that look around corners and under doors and for hand held monitors.
- Range to one mile in open terrain.
- Portable repeaters increase range to four miles.
- Diversity receivers reduce multi-path.
- Encrypted video transmission option.

### BENEFITS

- **Saves Lives:** By providing live detailed video images to command and support personnel involved in decision making.
- **Faster Response:** By reducing the number of unknown factors and risks, faster and more informed decisions can be made.



*BCR-100  
Briefcase  
Receiver*



*BE-400  
Diversity  
Receiver &  
Antennas*

## System Components

A complete system includes the body worn tactical unit (TT-100), a receiver unit and one day of training (see descriptions below).

### Tactical Unit (Body Worn; TT-100)

Control Unit: Camera, Transmit Antenna 1, Controls and Encryption Encoder (optional).

Transmitter: Microwave Transmitter and Transmit Antenna 2.

Battery Unit: Two Li-Ion Batteries with dual charger.

Pouches: Each unit comes with a ballistic nylon pouch with velcro backing.

### Receiver Unit

For receivers see System Configurations below.

### Training

Included with purchase of system is one day of training at customer facility.

## System Configurations

All systems include TT-100 tactical unit and one day of training.

TVS-100 BE-320R receiver with AH-52R sector antenna and universal mounting bracket.

TVS-150 BCR-100 briefcase receiver with extendable AS-23R CP antenna.

TVS-200 BE-400R diversity receiver with (3) AH-52R antennas, diversity antenna support, cables and universal mounting bracket.

TVS-250 BCR-200 diversity briefcase receiver with (3) AH-52R diversity antennas.

## Options & Accessories

- Encryption encoder and decoder (with user programmable 256 bit key)
- Bullet camera on extendable pole (for remote viewing around corners)
- Sony Hi-8 video/audio recorder (for BCR-100, 200 briefcase receivers)

## Specifications

### SYSTEM

Frequency Band. . . . . 2400 - 2483 MHz  
Channels (4) . . . . . 2412.5; 2432.5; 2452.5; 2472.5 MHz  
(consult factory for custom frequencies)

### Range

Without Repeater. . . . . 1.0 miles (line of sight)  
With Repeater. . . . . 4.0 miles (line of sight)

### BODY WORN

#### Video Input & Output

Signal Format . . . . . NTSC & PAL  
Camera Resolution. . . . . 400 Lines  
Illumination. . . . . 2.0 Lux  
Connector (auxiliary input). . . . . Tini QG (Switchcraft)  
Connector (auxiliary output) . . . . . Tini QG (Switchcraft)

#### Audio Input & Output

Channels. . . . . 1  
Input Level . . . . . 1.0mV  
Input Impedance . . . . . 10K ohms  
Frequency Response . . . . . 150 Hz to 10 KHz  
Connector (auxiliary input) . . . . . Tini QG (Switchcraft)

### Controls

Power (off, on, on with encoding). . . . . 3 position toggle  
Video (main or alternate camera) . . . . . 2 position toggle  
Channel . . . . . rotary (screwdriver adjust)

### Transmitter

Power . . . . . 250 mW (typ)  
Antenna. . . . . Dual Circular Polarized Patch

### Battery

Type . . . . . Li-Ion  
Voltage . . . . . 12.0 volts  
Capacity. . . . . 3.5 amp hours  
Operating Time. . . . . 4.5 hours typ

### Dimensions

Control . . . . . 4.0" x 5.0" x 1.9"  
Transmitter . . . . . 4.0" x 5.0" x 1.6"  
Battery . . . . . 3.0" x 5.0" x 0.8"

Weight . . . . . < 3.5 lbs total

### RECEIVER UNIT

Type . . . . . BE-320R standard receiver (TVS-100, 150)  
BE-400R diversity receiver (TVS-200, 250).  
Antenna . . . . . CP; 13.0 dB Gain (TVS-100, 200, 250)  
CP; 5.9 dB Gain (TVS-150)

Video Out Connector. . . . . BNC  
Audio Out Connector . . . . . RCA  
Voltage . . . . . 12.0 volts  
Current. . . . . 240 mA (TVS-100, 200)  
<1.0 A, for briefcase receivers (TVS-150, 250)

Dimensions . . . . . 3.0" x 4.75" x 1.25" (TVS-100, 200)  
17.0" x 13.0" x 4.75" (TVS-150, 250)

Weight (excluding antennas) . . . . . < 15 oz (TVS-100, 200)  
< 12.0 lbs (TVS-150, 250)

