

WIRELESS VIDEO COMMUNICATIONS

BRIEFCASE COMMUNICATION SYSTEM BCS-100 and 200 Series



Briefcase Receiver BCR-100

The BCS-100 and 200 series briefcase communication systems provide a compact and portable wireless video/audio transmission system complete with LCD monitor and optional Hi-8 recorder.

These systems are ideally suited for covert surveillance applications, emergency response and air to ground reception. The briefcase receivers are battery operated and can be operational in seconds.

The briefcase units can be fitted with custom receivers for use with other manufacturers video transmission systems such as existing airborne transmitters. This is ideal for use as a portable command post for Law Enforcement, Fire Department and Emergency Response personnel to observe live video transmissions from an airborne platform such as a helicopter.

APPLICATIONS

- Remote Surveillance
- SWAT Operations
- Emergency Response
- Air to Ground Reception

Product FEATURES

- Complete wireless video/audio receiving system in a waterproof Pelican case.
- High and low power transmitter options.
- High resolution 6.3 inch LCD monitor.
- Extendable antenna with swivel mount.
- Auxiliary video/audio output for external monitor.
- Optional SONY Hi-8 recorder.
- Internal battery pack provides up to four hours of continuous operation.
- Built in battery charger with LED battery fuel gauge.
- Video encryption option.
- Optional diversity receiver with 3 antennas for mobile applications.
- Custom receivers are available for use with existing airborne transmission systems.



*Low
Power
Transmitter
CS-220T*



*CP Patch
Antenna*



*High
Power
Transmitter
BE-500T*

System Components

| | |
|-------------------------|--|
| Transmitter: | CS-220T or BE-500T |
| Transmitter Antenna: | CP patch antenna (AS-22/23R) |
| Receiver: | BCR-100 or BCR-200. Each briefcase receiver includes receiver, extendable antenna, 6.3 inch color LCD monitor with speaker, battery pack and charger, AC/DC adaptor. |
| Receiver Antenna: | CP patch antenna (AS-23R) for BCR-100 or CP panel antennas (AH-52R) for BCR-200 |

System Configurations

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|---------|--|
| BCS-105 | CS-220T low power transmitter and BCR-100 brief case receiver with CP patch antennas. |
| BCS-125 | BE-500T high power transmitter and BCR-100 brief case receiver with CP patch antennas. |
| BCS-205 | CS-220T low power transmitter and CP patch antenna with BCR-200 diversity briefcase receiver and high gain CP panel antennas. |
| BCS-225 | BE-500T high power transmitter and CP patch antenna with BCR-200 diversity briefcase receiver and high gain CP panel antennas. |

Options

- Encryption encoder and decoder (with user programmable 256 bit key)
- 12.0 volt Li-Ion battery pack with dual charger (to power transmitter)
- Sony Hi-8 video/audio recorder (can be installed in briefcase)

Specifications

Video Input & Output

| | |
|---------------------------|--------------------------|
| Signal Formats |NTSC & PAL |
| Input Level |1.0 Volt p-p |
| Output Level |1.0 ± .2 Volt p-p |
| Impedance |75 ohms |
| Video Bandwidth |5.0 MHz min |
| Pre-Emphasis/ De-emphasis |CCIR |
| Connector |BNC |
| Monitor |6.3 inch, color LCD |
| Resolution |400 Lines |

Audio Input & Output

| | |
|--------------------|---|
| Channels |1 |
| Input Level |-7.0 dB or 0.0 dB (BE-500T) |
| Input Impedance |> 47,000 ohms or 600 ohms (BE-500T) |
| Output Level |0 dBm |
| Output Impedance |600 ohms |
| Frequency Response |150 Hz to 10 KHz |
| Connector |RCA |

Transmitter

| | |
|-------------------|---|
| Radiated Power |FCC Part 15 (15.249) CS-220T 250 mW (min) BE-500T |
| Connector Antenna |SMA |
| Antenna |Patch (CP) |

Receiver

| | |
|----------------------------|--|
| Antenna |Patch or Panel (CP) |
| Frequency Of Operation |2400 to 2483 MHz |
| Channels (User Selectable) |4 |
| Channel Frequencies |2412.5 MHz 2432.5 MHz 2452.5 MHz 2472.5 MHz |
| Channel Control |2 position DIP Switch |
| Modulation |FM |
| Range |1,000 Ft. Clear Line of Sight (Consult factory for extended operating range) |

Power

| | |
|-------------------------------|-----------------------|
| Input Voltage |12 to 15 VDC |
| Input Current | |
| CS-220T |< 80 mA |
| BE-500T |< 400 mA |
| Battery Operation (Briefcase) |4 hours (min) |
| Input Connector |Coaxial (2.1 mm) |
| Reverse Polarity Protection | |

Mechanical

| | |
|-----------------------------------|--|
| Weight (Transmitter) |< 15 Oz |
| (Receiver) |< 12 lbs |
| Dimensions (excluding connectors) | |
| Transmitter |2.5" x 5.25" x 1.25" (BE-500) 2.5" x 4.0" x 1.25" (CS-220) |
| Briefcase Receiver |17" x 13.0" x 4.75" |

Environmental

| | |
|-----------------------|---------------------|
| Operating Temperature |-20°C to +65°C |
| Storage Temperature |-50°C to +85°C |

