

RadioCom™

wireless intercoms



Telex®/RTS®



## BTR-600

The Telex® RadioCom™ BTR-500/600 UHF Wireless intercom systems offer the ultimate in reliable, high performance, high fidelity, full duplex communications. Operating in the 520 to 760 MHz range the units operate reliably at distances of over 1,000 feet. Various types of log periodic antennas are available that can increase the effective range to ½ mile or more depending on site conditions.

The BTR-600 series incorporates Auto-switching 2 channel audio operation, permitting the belt pack user to select between 2 separate audio channels of communication. Auto-switching provides the flexibility to create private and party lines within the same belt pack.

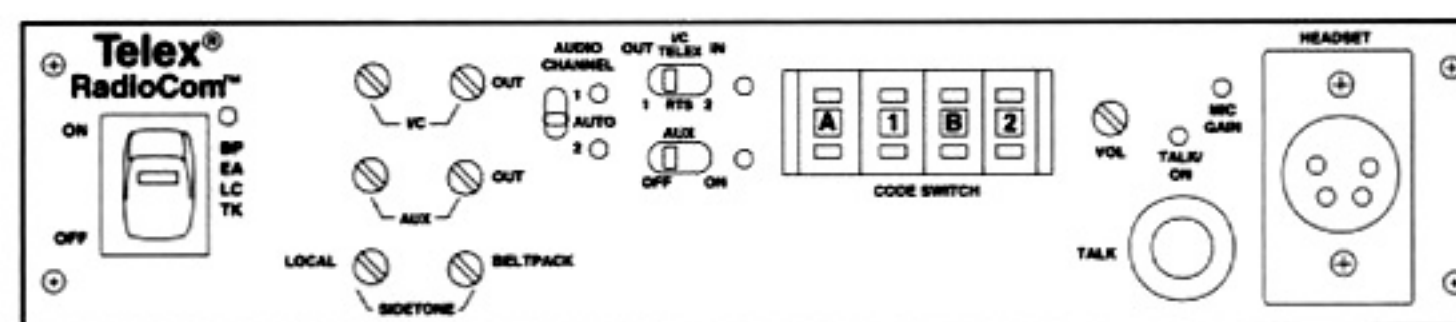
The BTR-500/600 series also incorporates two channel frequency agility. The base station and belt pack have two UHF transmit frequencies and two UHF receive frequencies that allow the user to escape frequency interference problems that may arise.

The BTR-500/600 series is perfectly suited for stand-alone (single drop) operation and easily expands up to 16 BTR/TR sets permitting up to 32 discrete full duplex channels. The systems are fully compatible with RTS™ TW and Audiocom™ party line intercoms, as well as RTS Digital Matrix systems and other 4 wire communications systems. The systems easily adapt to other types of party line intercom. The base station also allows connections for auxiliary balanced line level audio input and output.

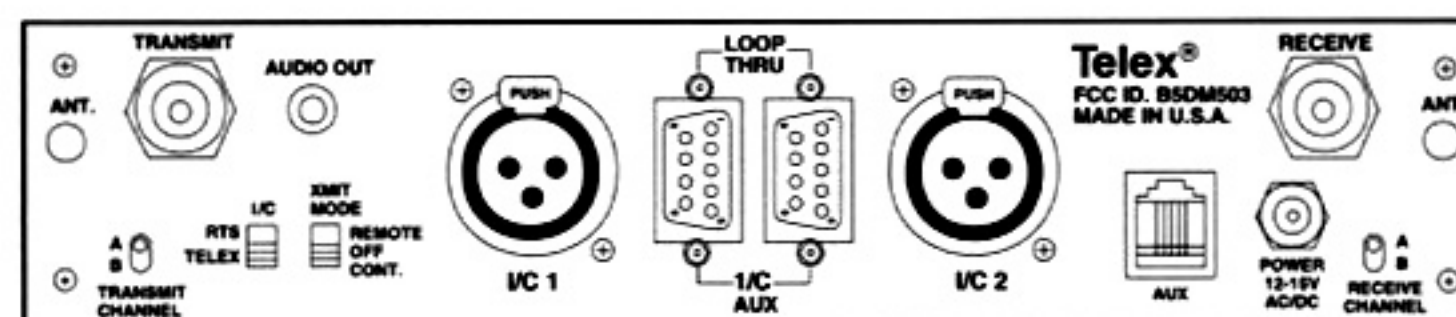
The BTR-600 series includes a unique patented digital encryption process for those who need secure full duplex communications. The 600 series offers over 65,000 code settings that can be changed on the fly by means of 4 cipher code switches on the units.

**Code Switch:**

Allows operator to select up to 65,000 different cipher codes (BTR-600 set only).



Front

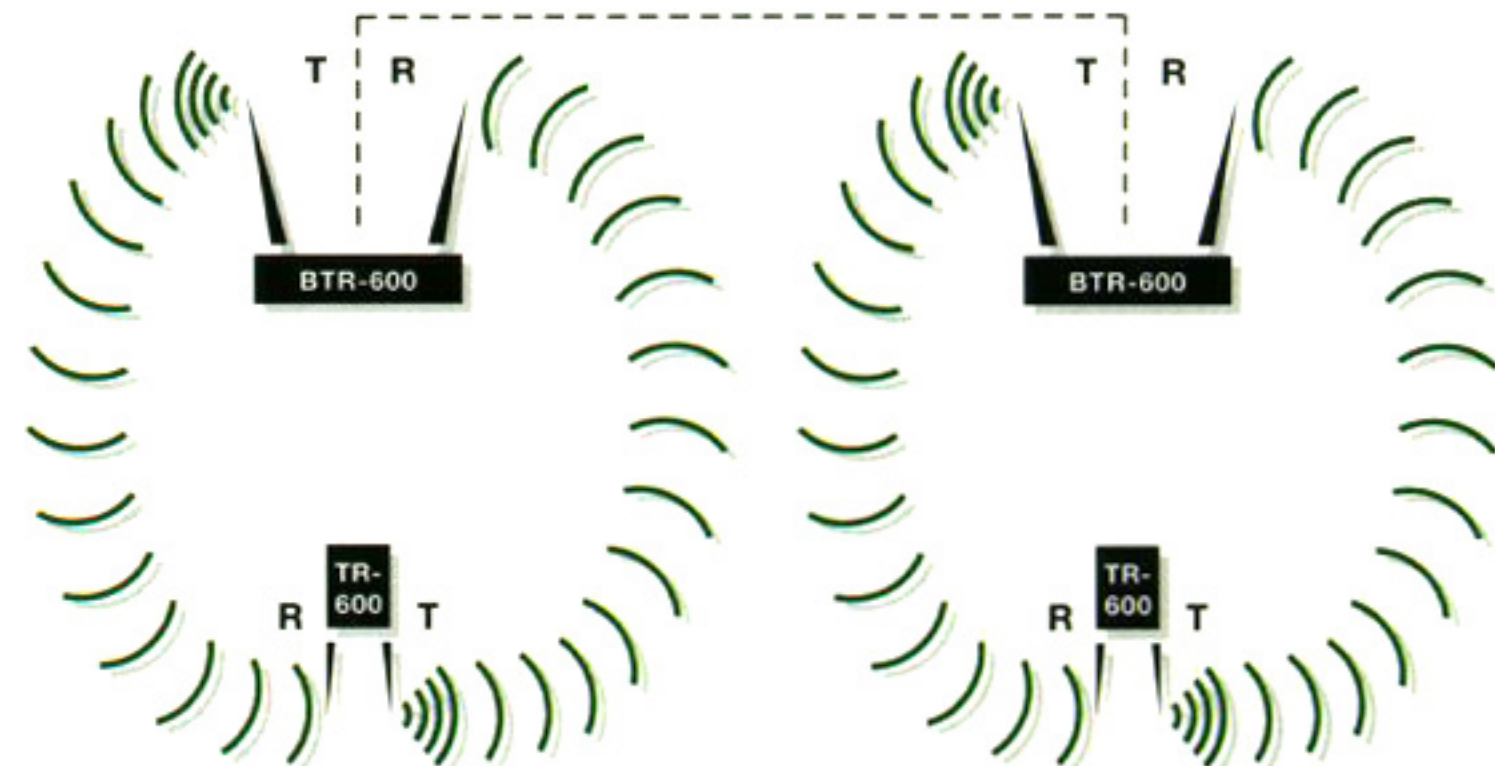


Back

**Shown:**

National Football League Coaches' System featuring 8 BTR-600 sets and an SC-600 Antenna combiner.

(Units linked with interconnect cable provided.)

**How The System Works:**

The BTR-500/600 set provides full duplex communications with a single belt pack transceiver. The BTR-500/600 base station transmits a UHF frequency that the TR-500/600 receives and simultaneously transmits a UHF frequency that the base station receives.

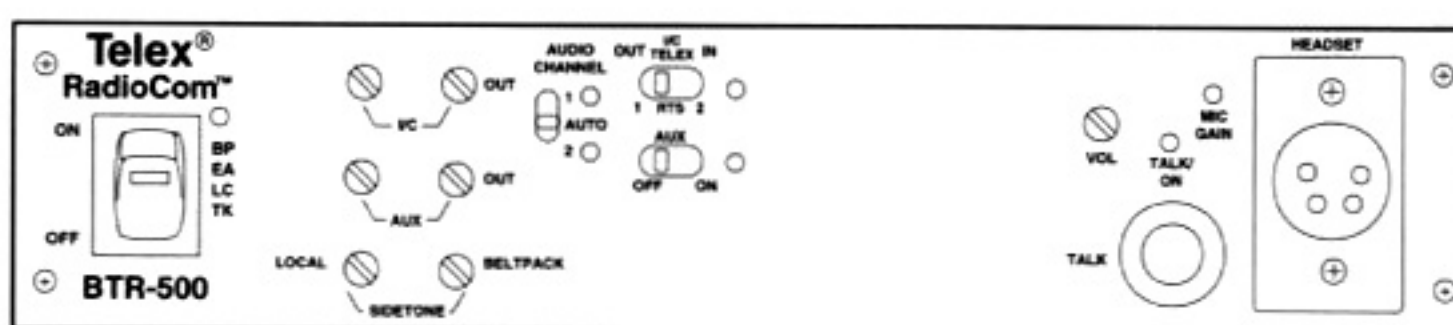
1 to 16 BTR-500/600 sets may be operated simultaneously permitting full duplex communications. Units can be linked together to create private or party line communications (units linked with interconnect cable provided).



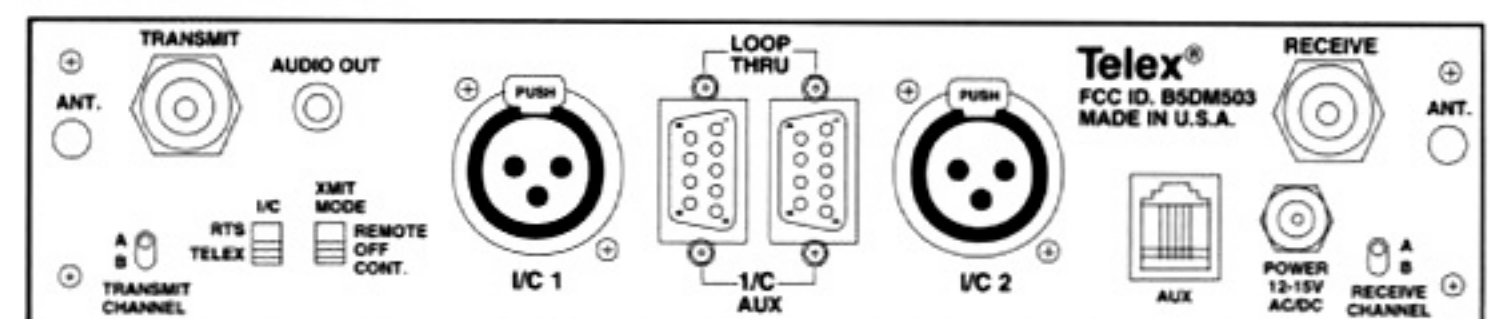
# BTR-500 TR-500



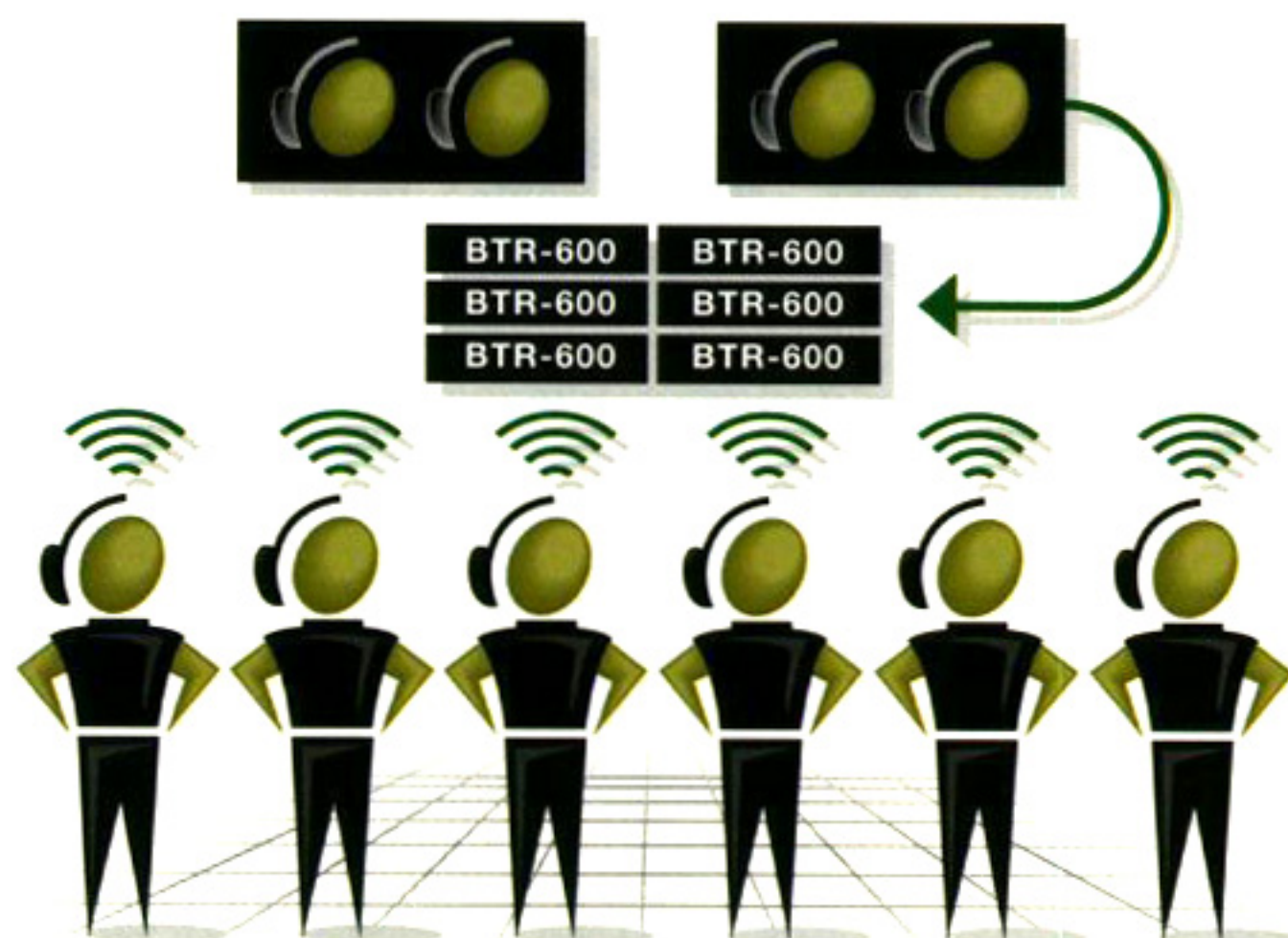
The BTR-500 series includes the BTR-500 frequency agile base station, working with the TR-500 transceiver belt pack. The BTR-500 base station provides full duplex communications with a single belt pack, or can accommodate multiple belt packs operating in push to transmit mode. 16 BTR-600s (or more) may be operated simultaneously, permitting 32 (or more) discrete full duplex channels.



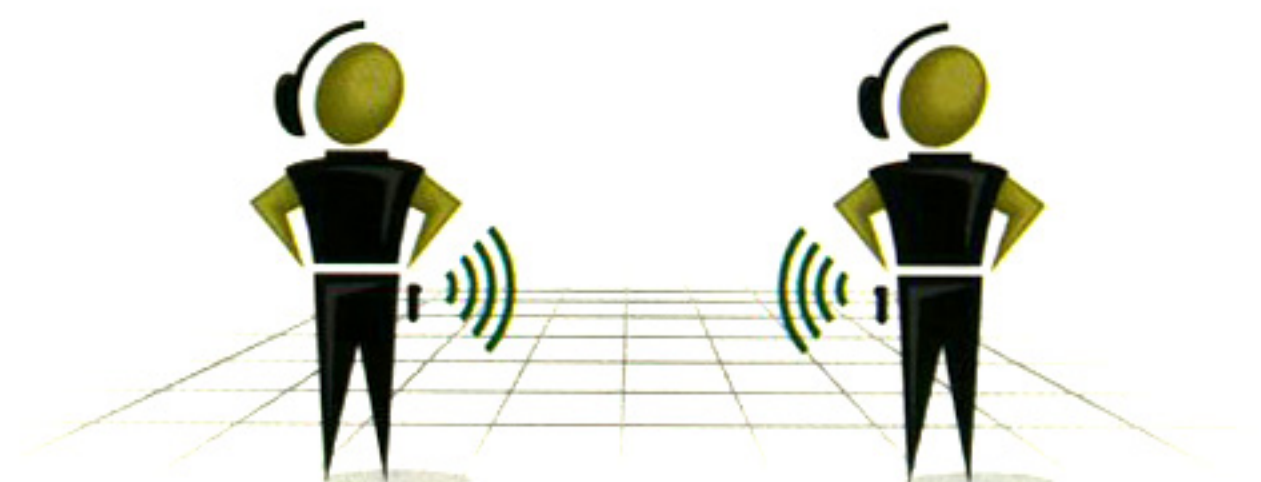
Front



Back



**Shown:**  
6 "drop" system interfaced into wired party line intercom



**Mirror Image System:**  
Belt pack to belt pack

## Standard Features

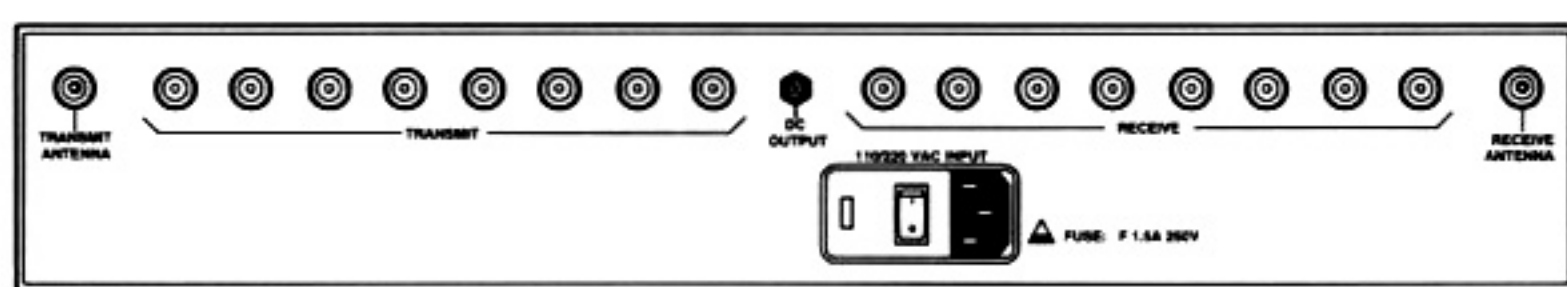
### BTR500/600 — TR500/600

- Full duplex
- 520-760 MHz band
- Two channel Audio auto-switching
- Dual frequency agility
- Modular design 1-16 sets
- All metal, weather-resistant belt pack
- Dual function talk button—momentary or locked on
- Individual level controls-providing unparalleled user flexibility
- Direct interface to RTS TW and Telex Audiocom
- Easily adapts to Clear-Cor® systems
- Digital Matrix compatible
- Made in the USA
- 3 year warranty



## SC-600

The SC-600 Amplified Broadband Splitter-Combiner makes it possible to operate eight UHF wireless intercom base transceivers using only two antennas. In addition to accommodating eight transmit and eight receive antennas, it provides power connection for up to eight base transceivers. It also features a high degree of output isolation—a necessity in multi-frequency systems to prevent intermodulation. It is the ideal complement to your BTR500/600 UHF Wireless Intercom System.



Back

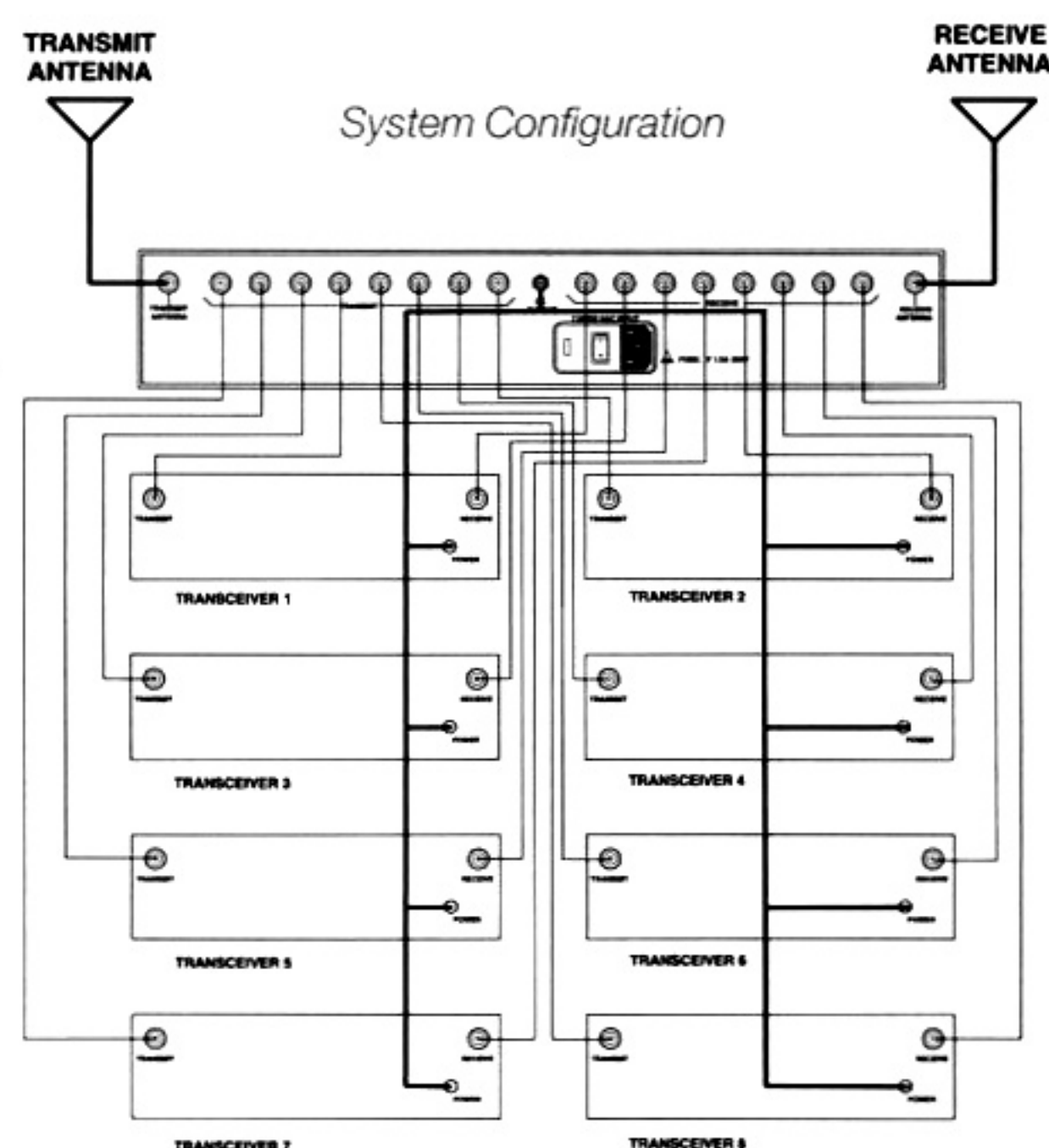
TT-44  
TR-34**TT-44**

The Telex RadioCom TT-44 is a 16 channel synthesized wireless IFB transmitter designed to provide a wireless link to on-air talent in the studio or while you are in the field. Operating in the 64-68 MHz range the units operate reliably at distances of over 750 feet.

The TT-44 transmitter has a 3 pin XLR input on the back of the unit with a selector switch to accept either RTS TW, Telex Audiocom/RadioCom, or other types of wired and wireless intercom input. There is also a 1/4" unbalanced line level signal input jack. The TT-44 offers the flexibility of tuning 8 of its frequencies in the TV channel 3 band and 8 in the TV channel 4 band for ultimate agility while in the field. Up to 5 transmitters will operate simultaneously within the same environment.

**TR-34**

The TR-34 is a 16 channel tunable talent receiver that is designed to be used with the standard IFB earpieces such as the Telex Telethin announcers earpiece systems or any other 8-500 ohm earphone. The TR-34 features a selectable high frequency boost control to equalize the high frequency loss associated with the use of behind the collar acoustic tubes and earphone drivers. The receiver also features a lighted bezel for easy channel identification and auto power off when the earphone is removed from the jack. The TR-34 operates on two standard AA batteries and will operate for up to 40 hours on alkaline batteries.

**Earsets**

The Telex earset components are designed for inconspicuous listening for on-camera talent and are used by nearly every major television network. Earset components are made up of interchangeable parts which simply snap together—this allows the users to construct a version that best suits their particular needs.

The earset components shown in the photo (left) include an earmold (available in left or right—small, medium, or large); an acoustic eartube with clothing clip (model ET-2); a Telethin audio driver (model RTV-04 is a 125 ohm driver—other impedance values are available); and a 5 foot, low luster beige cord with 1/8" plug (model CMT-92).

There are other options for the earpiece component—one of which is called an "earcone" (not shown). A complete earset system including one of each size earcone (small, medium, or large) can be ordered as follows: Model CES-2 includes one of each size earcone (BT-2, BT-3, BT-4); an acoustic eartube with clothing clip (model ET-4); a Telethin audio driver (model RTV-04); and a cord with 1/8" plug (model CMT-98).



## BTR-200

**BTR-200**

The Telex RadioCom BTR-200 series is a full duplex VHF highband wireless intercom system (full duplex refers to talk/listen at the same time). Operating in the 150-216 MHz range the units operate reliably at distances of 1000 feet or more.

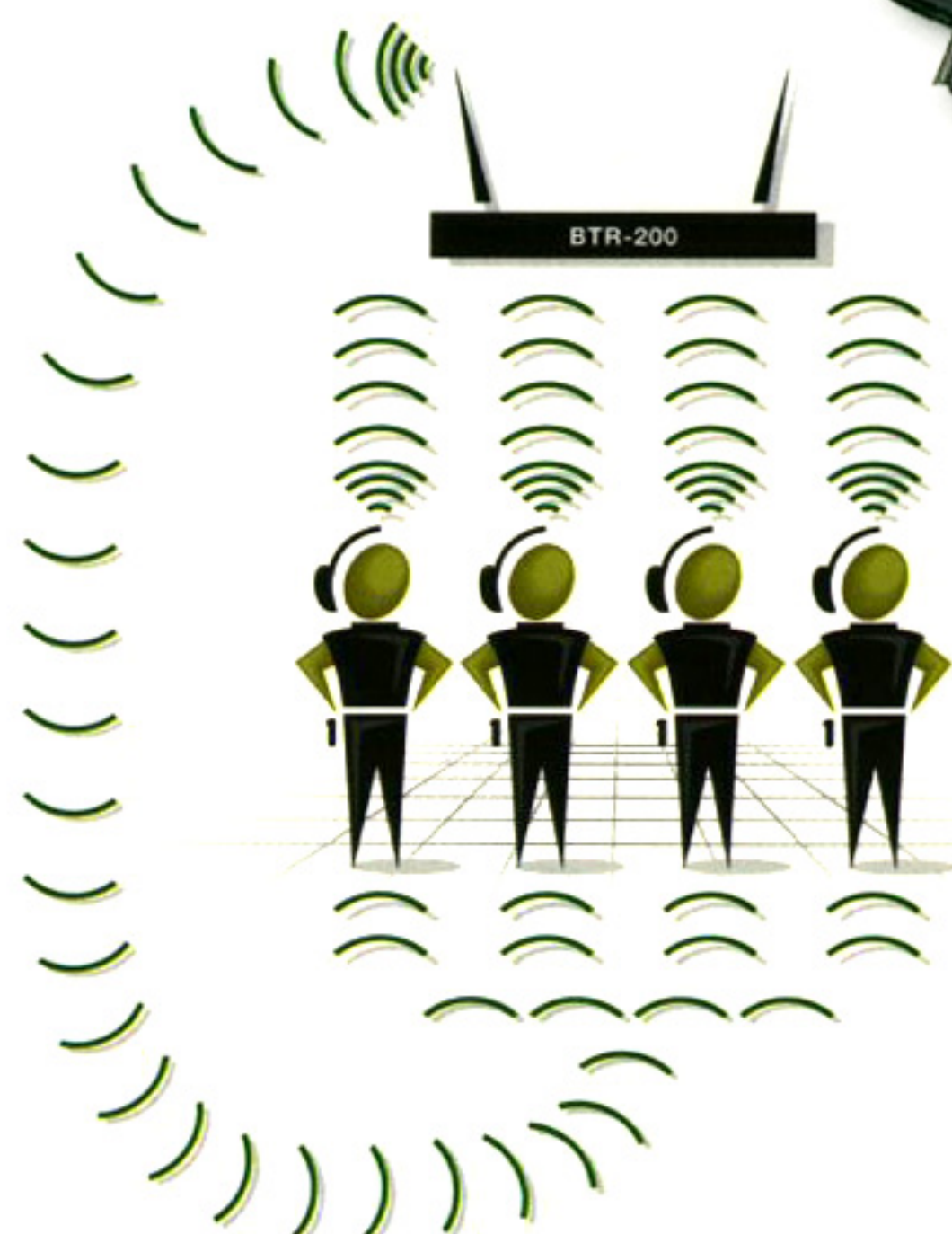
The 200 series is a four channel base station transceiver with unique receive channels allowing four belt pack transceivers to operate in full duplex communications. For convenience in ordering, there are several preselected frequency groups carefully coordinated by the Telex RF engineers for system

compatibility. High selectivity between channels is achieved through an exclusive computer designed IF filter system and a dual conversion IF for greater selectivity and adjacent channel rejection.

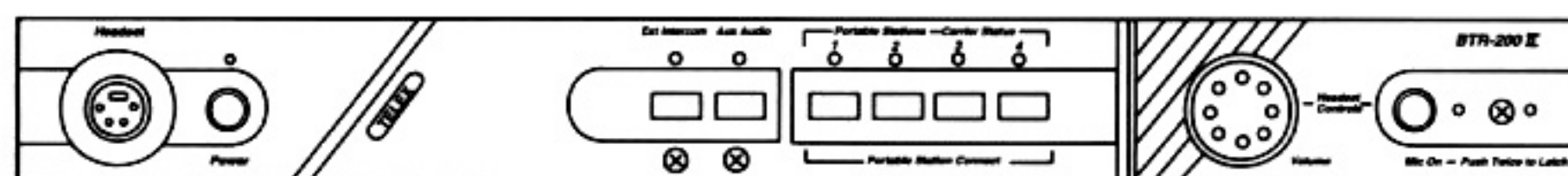
The 200 series offers a built-in interface to RTS TW, Audiocom and Clear-Com party line intercoms and can be interfaced into RTS digital matrix using an RTS interface such as model SSA-324.



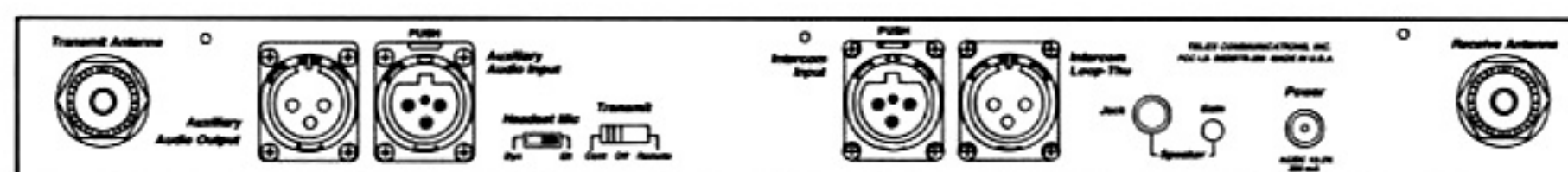
## TR-200

**How the System Works:**

The BTR-200 base station transmits a common VHF frequency that the TR-200 packs receive; each TR-200 belt pack transmits a unique VHF frequency to the base station. Four TR-200s can operate in full duplex with the BTR-200



Front



Back

## Standard Features

**BTR-200**

- Full duplex operation
- 150-216 MHz band
- Easily interfaces to RTS TW, Audiocom, and Clear-Com® brand wired intercom systems
- Auxiliary in and out connections

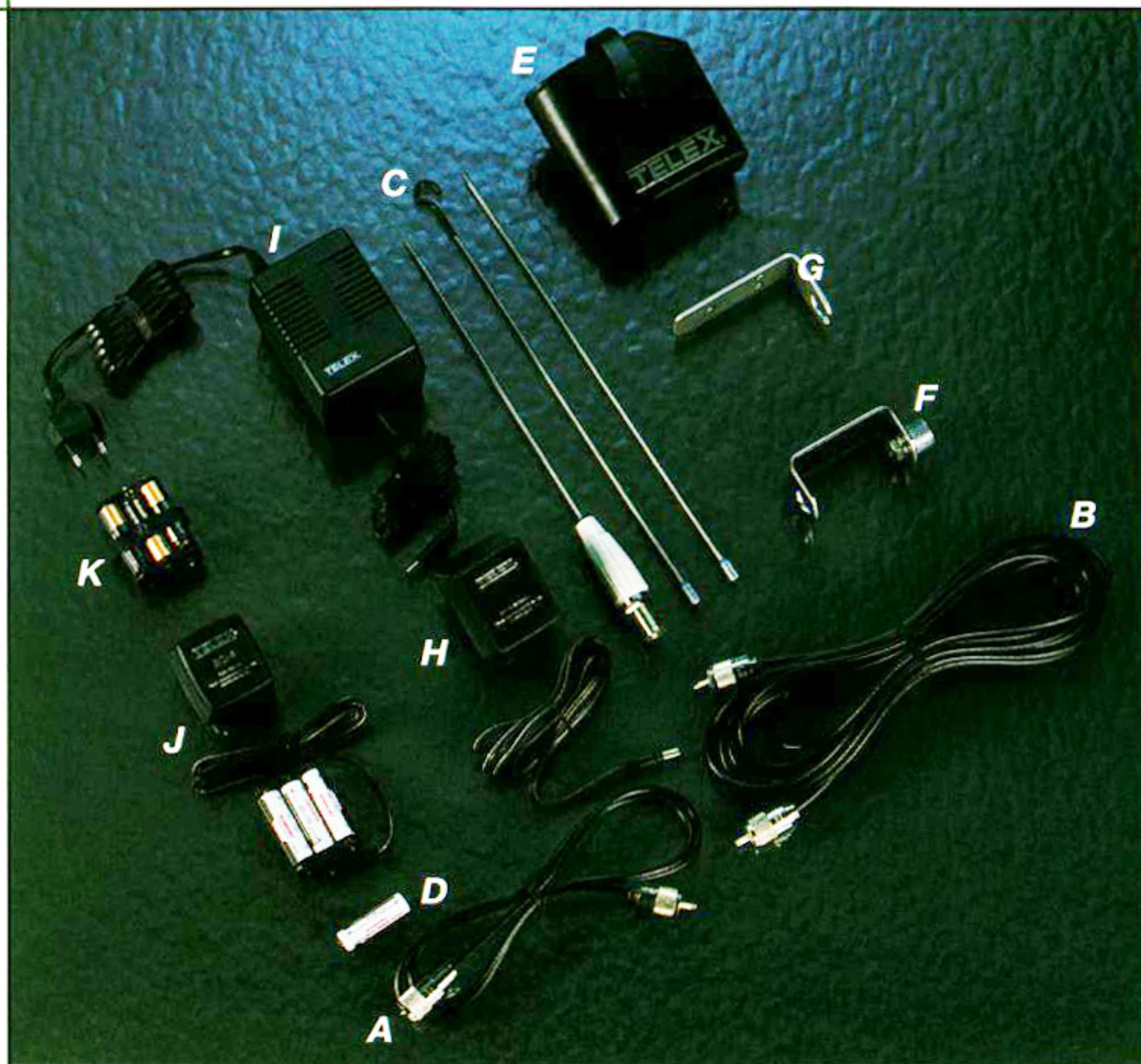
- Local headset connector and volume control on base
- Ability to link two base units together for 8 belt packs in full duplex via auxiliary connections
- Pre-selected frequency groups for convenience in ordering

**TR-200**

- Lightweight polycarbonate belt pack
- Dual function talk button allows for momentary talk or locked-on hands free talk
- Low battery LED indicator lights continuously when batteries are low. Belt pack operates up to 24 hours with 6 AA Alkaline or up to 10 hours with NiCad rechargeable batteries

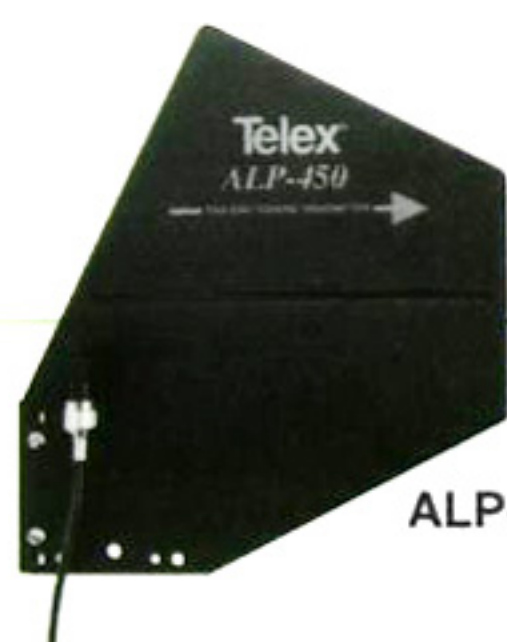


- A **CX-4**  
Coax antenna cable 4' (1.2m) 50 ohm
- B **CX-25**  
Coax antenna cable 25' (7.6m) 50 ohm
- C **UA-58B (shown)**  
5/8 wave transmit/receive antenna  
Frequency range 154-172 MHz
- UX-58Y (not shown)**  
Frequency range 169-185 MHz
- UX-58W (not shown)**  
Frequency range 185-200 MHz
- UX-58R (not shown)**  
Frequency range 200-216 MHz
- D **NCB-AA**  
NiCad AA battery for TR-200 (requires 6)
- E **TRH-1**  
Leather swivel holster with belt loop for TR-200
- F **ASA-1**  
Mic stand bracket for 5/8 wave antenna
- G **AWB-1**  
Wall bracket for 5/8 wave antenna
- H **PA-2**  
Power supply for BTR-200 II 120 V
- I **PA-2E**  
Power supply for BTR-200 II 240 V
- J **BC-4**  
NiCad battery charger; sled for TR-200;  
and 6 AA NiCad batteries
- K **BSL-1**  
Spare battery sled for TR-200  
(batteries not included)



**Not shown:**  
**High Performance directional VHF Yagi antennas**  
Available in three frequency ranges:  
150-157 MHz, 169-186 MHz, and 204-216 MHz

**ALP-1**  
High performance log periodic antenna. 165-216 MHz



ALP-450

**ALP-450**  
Broadband unidirectional log periodic antenna  
Frequency range 450 to 900 MHz

**ALP-600**  
Broadband bi-directional log periodic antenna  
Frequency range 450 to 900 MHz

**ALP-600 Antenna Mast and Bracket Kit**  
Four section, clear anodized aluminum  
mast with extended length of 90"  
Aluminum brackets with vertical or  
horizontal mounting capability



ALP-600

**ALP-600 Mast and Bracket Kit**

**BC-500NM**  
Nickel metal battery pack with charger

**BP-500NM**  
Spare nickel metal battery pack

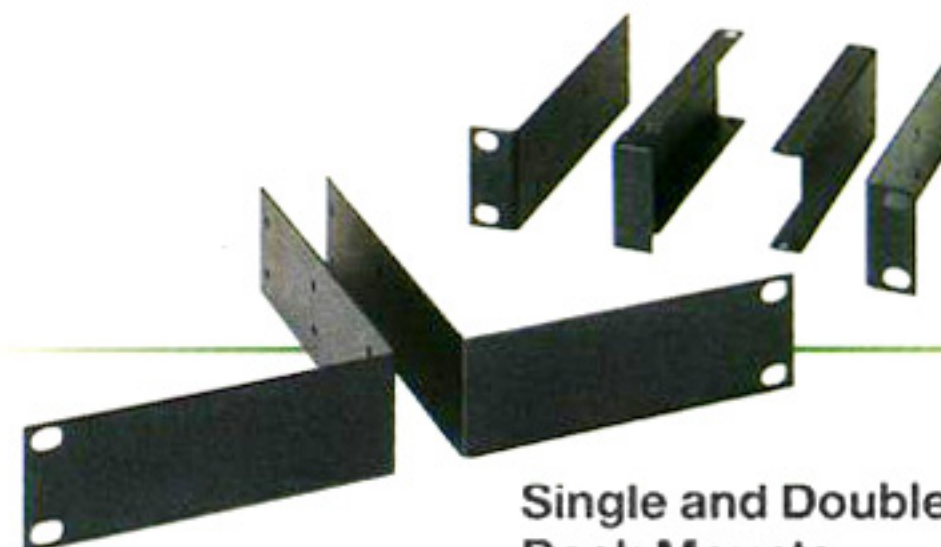
**RMS-BTR**  
Single rack mount kit for one BTR-500/BTR-600

**RMD-BTR**  
Dual rack mount kit for two BTR-500/BTR-600

**Not Shown:**  
**BP-500**  
Spare battery sled for alkaline batteries  
(batteries not included)



BC-500NM  
Battery  
and Pack



Single and Double  
Rack Mounts

**Not Shown:**  
CXU-25 UHF Coax Antenna Cable 25'  
CXU-50 UHF Coax Antenna Cable 50'  
CXU-75 UHF Coax Antenna Cable 75'





HR-1



HR-2



PH-4

**HR-1/HR-2**

The HR-1 and HR-2 are medium-weight noise-reduction headsets with dynamic noise cancelling microphones, a noise reduction rating of 21 dB — suitable for use in moderately noisy environments. These models feature a unique headband design that distributes ear cushion pressure evenly over the entire ear with no pressure points, and fold into an extremely compact shape for storage. Straight cord with XLR-4 type plug.



PH-8



PH-8000



PH-1

**PH-4**

Super lightweight, dual-sided for day-long comfort. High quality monaural dynamic earphones with dynamic noise cancelling microphone on adjustable boom. Straight cord with XLR-4 type plug.

**PH-8**

Super lightweight, single-sided headset for the ultimate in day-long comfort. High quality monaural dynamic earphone with dynamic noise cancelling microphone on adjustable boom that can be bent to practically any position. Straight cord with XLR-4 type plug.



PH-2



V-210/V-220

**PH-8000**

Super lightweight single-sided headset with waterproof microphone and sealed headband that make it a great choice for high-moisture environments. The PH-8000 is ideal for maximum comfort in a low noise environment, or for wearing under a helmet or under hearing protection gear. **Only available with electret type microphone element.**

**PH-1**

Single-sided headset with foam-filled cushion effectively reduces ambient noise. Dynamic, monaural earphones with dynamic noise cancelling microphone attached to a continuously adjustable ball joint. Five foot straight cord with clothing clip and XLR-4 type plug.

**Note:**

All RadioCom™ brand base/beltpack units shown in this catalog require a headset with a female XLR-4 plug.

**PH-2**

Dual-sided headset with foam-filled cushion effectively reduces ambient noise. Dynamic, monaural earphones with dynamic noise cancelling microphone attached to a continuously adjustable ball joint. Five foot straight cord with clothing clip and XLR-4 type plug.

**V-210/V-220**

The V-Series headsets are high fidelity, studio quality products that may be tailored to most any need using modular cord sets and microphones. The V-210 is a single-sided headset, the V-220 is dual-sided, and both have a unique ball and socket boom with a hinge on boom's center for extra-flexible mic movement. The V-Series' unique floating earcups adjust to virtually any head size or shape for maximum comfort.

## s p e c i f i c a t i o n s

**TT-44 Transmitter**

**RF Frequency Range:** 64.5-67.5 MHz  
**Modulation:** FM  $\pm 25$  KHz deviation  
**Signal-To-Noise Ratio:** 58 dB (64 dB A weighted)  
**Maximum Deviation:**  $\pm 25$  KHz  
**Maximum Rated Power:** 50 mW  
**Audio Input:** Balanced XLR-3F 150K ohms, Unbalanced 1/4" Jack 100K ohms/70 MV-7 Volt input range  
**Antenna Type:** 1/4 wave omnidirectional telescoping whip (supplied) or external type (optional)  
**Audio Controls:** Input levels, Intercom select  
**Power Requirements:** 15-24 Vdc or 13 Vac; 115 Vac 60 Hz plug-in wallpack power supply

**Dimensions:** 7.5"W x 6.815"H x 1.75"D  
 (19.2cm x 19cm x 4.5cm)

**FCC ID:** B5DM507

**Visual Indicators:** 5 segment audio level LED, 1 power ON indicator

**TR-34 Talent Receiver**

**RF Frequency Range:** 64.5-67.5 MHz  
**Harmonic and Spurious Emissions:** Meets FCC Part 15  
**Sensitivity:** 1.0  $\mu$ V maximum, 12 dB SINAD 25  
**Distortion:** <2% THD  
**Audio Output:** into 8 Ohms 2.0 V/15 mW, into 32 Ohms 2.0 V/10 mW  
**Antenna Type:** 1/4 wave, in earphone cord  
**Battery Type:** (2) AA Alkaline, or NiCad

**Battery Life:** 24-40 hours continuous use Alkaline; 10-15 hours continuous use NiCad

**Audio Controls:** Volume, On/Off high frequency boost control (push On type)

**Ear Piece Connector:** 3.5mm mini stereo or mono  
**Channels Tuned:** 2 TV Channels: 64.5-65.9 MHz & 66.1-67.5 MHz. (TV-3) 64.5, 64.7, 64.9, 65.1, 65.3, 65.5, 65.7, 65.9. (TV-4) 66.1, 66.3, 66.5, 66.7, 66.9, 67.1, 67.3, 67.5.

**Temperature Range:** 32°F to 120°F (0°C to 50°C)

**Weight:** 3 oz. (85g)

**Dimensions:** 2.7"W x 1"H x 3.75"D  
 (8.7cm x 2.5cm x 9.5cm)

**FCC:** Part 15

**Visual Indicators:** Backlit ON/Channel indicator



Overall	BTR-600 Base Station Repeater	BTR-500 Base Station Repeater	BTR-200 II Base Station Repeater	TR-600 Belt Pack Transceiver	TR-500 Belt Pack Transceiver	TR-200 Belt Pack Transceiver
<b>Power Requirements</b>	115 Vac, 60 Hz, 8W (230 Vac, 50 Hz, Model Avail.) or 12 to 15 V AC/DC (external)	115 Vac, 60 Hz, 8W (230 Vac, 50 Hz, Model Avail.) or 12 to 15 V AC/DC (external)	115 Vac, 60 Hz, 8W (230 Vac, 50 Hz, Model Avail.) or 12 to 15 V AC/DC (external)	6 "AA" Cells (Alkaline) Nickel Metal Hydride optional	6 "AA" Cells (Alkaline) Nickel Metal Hydride optional	6 "AA" Cells NiCad optional
<b>Current Drain</b>				120 mA	120 mA	65 mA
<b>Temp Range</b>	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)	-4°F to 130°F (-20°C to 55°C)
<b>Dimensions</b>	8.25"W x 1.75"H x 11.25"D (21cm x 4.5cm x 28.6cm)	8.25"W x 1.75"H x 11.25"D (21cm x 4.5cm x 28.6cm)	15.75"W x 1.75"H x 10.5"D (40cm x 4.5cm x 27cm)	4"W x 5 7/8"H x 1 5/8"D (102mm x 149mm x 41mm)	4"W x 5 7/8"H x 1 5/8"D (102mm x 149mm x 41mm)	4.25"W x 4.125"H x 2.0"D (108mm x 105mm x 51mm)
<b>Weight</b>	4 lbs. (1.8kg)	4 lbs. (1.8kg)	4.5 lbs. (2kg)	1 lb. 6 oz (625g) with batteries	1 lb. 6 oz (625g) with batteries	13 oz (369g) with batteries
<b>Transmit Antenna</b>	1/2 wave (supplied) TNC connector on chassis	1/2 wave (supplied) TNC connector on chassis	3/8 wave (supplied) SO239 connector on chassis	1/4 wave wire (attached)	1/4 wave wire (attached)	1/4 wave wire (attached)
<b>Receive Antenna</b>	1/2 wave (supplied) TNC connector on chassis	1/2 wave (supplied) TNC connector on chassis	3/8 wave (supplied) SO239 connector on chassis	1/4 wave wire (attached)	1/4 wave wire (attached)	1/4 wave wire (attached)
<b>Transmit</b>						
<b>RF Frequency Range</b>	520 to 608 and 614 to 760 MHz	520 to 608 and 614 to 760 MHz	150 to 216 MHz	520 to 608 and 614 to 760 MHz	520 to 608 and 614 to 760 MHz	150 to 216 MHz
<b>RF Frequency Stability</b>	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%
<b>RF Power Output</b>	40 mW Typical	40 mW Typical	50 mW Typical	40 mW Typical	40 mW Typical	50 mW Typical
<b>Modulation</b>	F-1-E $\pm 32$ KHz deviation 62.5 K baud	F3 40 KHz deviation, 100 micro-seconds Pre-emphasis	F3 4 KHz deviation, 100 micro-seconds Pre-emphasis	F-1-E $\pm 32$ KHz deviation 62.5 K baud	F3 40 KHz deviation, 100 micro-seconds Pre-emphasis	F3 4 KHz deviation, 100 micro-seconds Pre-emphasis
<b>Mod. Limiter</b>	Internal Compressor	Internal Compressor	Internal Compressor	Internal Compressor	Internal Compressor	Internal Compressor
<b>Modulation Freq. Range</b>	300 to 4500 Hz $\pm 2$ dB	300 to 8000 Hz $\pm 2$ dB	300 to 5000 Hz $\pm 2$ dB	300 to 4500 Hz $\pm 2$ dB	300 to 8000 Hz $\pm 2$ dB	300 to 5000 Hz $\pm 2$ dB
<b>Microphone Audio Input</b>	30 ohms to 3500 ohms	30 ohms to 3500 ohms	30 ohms to 3500 ohms	30 ohms to 3500 ohms	30 ohms to 3500 ohms	30 ohms to 3500 ohms
<b>Microphone Input Sensitivity</b>	2 mV	2 mV	2 mV Dynamic, 4 mV Electret	2 mV	2 mV	2 mV Dynamic, 4 mV Electret
<b>Radiated Harmonics and Spurious Emissions</b>	-45 dBC	-45 dBC	-45 dBC	-45 dBC	-45 dBC	-45 dBC
<b>External Audio Input</b>	Auxiliary & Intercom Inputs	Auxiliary & Intercom Inputs	Auxiliary & Intercom Inputs			
<b>FCC</b>	Type accepted under FCC Part 74	Type accepted under FCC Part 74	Type accepted under FCC Parts 74 and 90	Type accepted under FCC Part 74	Type accepted under FCC Part 74	Type accepted under FCC Parts 74 and 90
<b>Receive</b>						
<b>RF Frequency Range</b>	520 to 608 and 614 to 760 MHz	520 to 608 and 614 to 760 MHz	150 to 216 MHz	520 to 608 and 614 to 760 MHz	520 to 608 and 614 to 760 MHz	150 to 216 MHz
<b>RF Frequency Stability</b>	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%	Crystal Controlled, 0.005%
<b>Type</b>	Single Conversion Superheterodyne, FM	Single Conversion Superheterodyne, FM	Dual Conversion Superheterodyne, FM	Single Conversion Superheterodyne, FM	Single Conversion Superheterodyne, FM	Dual Conversion Superheterodyne, FM
<b>RF Sensitivity</b>	<0.7 $\mu$ V for 12 dB SINAD	<0.7 $\mu$ V for 12 dB SINAD	<0.5 $\mu$ V for 12 dB SINAD	<0.7 $\mu$ V for 12 dB SINAD	<0.7 $\mu$ V for 12 dB SINAD	<0.5 $\mu$ V for 12 dB SINAD
<b>IF Selectivity</b>	3 dB at 230 KHz (Ceramic Filter)	3 dB at 150 KHz (Ceramic Filter)	3 dB at 30 KHz (4 pole Monolithic Filters)	3 dB at 230 KHz (Ceramic Filter)	3 dB at 150 KHz (Ceramic Filter)	3 dB at 30 KHz (Ceramic Filter)
<b>Image Rejection</b>	70 dB or better	70 dB or better	70 dB or better	70 dB or better	70 dB or better	70 dB or better
<b>Squelch Quieting</b>	67 dB	65 dB	90 dB	67 dB	65 dB	90 dB
<b>Squelch Threshold</b>	3.0 $\mu$ V (Internal)	1.5 $\mu$ V (Internal)	1 $\mu$ V (Internal)	3.0 $\mu$ V (Internal)	1.5 $\mu$ V (Internal)	3.0 $\mu$ V (Internal)
<b>Signal-to-Noise Ratio</b>	55 dB	63 dB	90 dB	55 dB	63 dB	90 dB
<b>Audio Output</b>	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)	32 mW into 600 ohms (Headset)
<b>Other Audio Outputs</b>	Audio, Auxiliary, Intercom Aux in-out/four wire/IC 2 chnl	Audio, Auxiliary, Intercom Aux in-out/four wire/IC 2 chnl	Speaker, Auxiliary, Intercom			
<b>Distortion</b>	<3.5% at Rated Output	<1% at Rated Output	<1% at Rated Output	<3.5% at Rated Output	<1% at Rated Output	<1% at Rated Output
<b>FCC</b>	Notification under FCC Part 15	Notification under FCC Part 15	Notification under FCC Part 15	Notification under FCC Part 15	Notification under FCC Part 15	Notification under FCC Part 15

**SC-600**

**Frequency Range:** 520-760 MHz  
**Antenna Connectors:** Standard TNC receptacles  
**AC Power Input:** 110/220 VAC 50/60 Hz, 130 VA  
**DC Power Output:** 15 VDC 1.3 A  
**Dimensions:** 3.5"H x 17"W x 12.5"D (88.9mm x 431.8mm x 317.5mm)  
**Weight:** 15 lbs.

**Splitter**

**3rd Order Intercept Output:** >28 dBm  
**Net Gain:** >2 dB  
**Noise Figure:** <4 dB  
**Output Isolation:** >20 dB

**Combiner**

**Net Gain:** 0 dB  
**Noise Figure:** 10 dB Typ  
**3rd Order Intercept Output:** -55 dBm @ +13 dBm Input, each transmitter

# Telex®

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# ANTENNAS & ACCESSORIES

## Medium-Gain Omnidirectional Rod Antenna



This antenna is circularly polarized to help reduce the possibility of multipath interference. Omnidirectionality permits full camera rotation. Weatherproof radome and rugged TNC connector.

Frequency ..... 1.9-2.0 GHz      Beamwidth ..... 360°  
    2.4-x2.5 GHz      Antenna Gain ..... 3 dB  
 VSWR ..... 2.0:1 Max      Size ..... 6.5" x 1.1" (165.1mm x 27.9mm)  
 Polarization ..... Right Hand Circular

<u>MODEL NUMBER</u>	<u>CONNECTOR</u>	<u>FREQUENCY</u>	<u>APPLICATION</u>
AT-OCPTR25	REVERSE TNC	2.4-2.5 GHz	T100 Transmitter
AX-OCPT20	TNC	1.9-2.0 GHz	T200 Transmitter, R200/R200T Receivers
AX-OCPT25	TNC	2.4-2.5 GHz	T200 Transmitter, R200/R200T Receivers



## Medium-Gain "Flag" Antenna



This directional Log Periodic antenna has a gain of 5 dB over a dipole, clearly outperforming any omnidirectional antenna. When mounted to a camera, it gives the T200 transmitter increased range while reducing the possibility of multipath interference. The unique swivel mount attaches easily to any camera allowing for easy positioning of the antenna, yet allowing it to fold quickly out of the way when not in use. Also includes a table stand. When equipped with an SMB connector, it can be used as an external receive antenna for the R100 handheld receiver.

Frequency ..... 1.9 - 2.5 GHz      Material ..... Sturdy ABS Plastic  
 VSWR ..... Less than 2:1,      Size ..... 4.5" x 2.875" x 0.375"  
    typically 1.5:1      (114.3mm x 73mm x 9.53mm)  
 Beamwidth ..... 150°      Mounting Method ..... Adhesive Swivel Mount  
 Gain ..... 5 dB      or Swivel Table Stand  
 Polarization ..... Vertical      Weight ..... 6 oz. (170.1gm)  
 Cable Length ..... 24" (609.6mm)

<u>MODEL NUMBER</u>	<u>CONNECTOR</u>	<u>APPLICATION</u>
AXF-LT2X	TNC	T200 Transmitter, R100 Receiver
AM2	Swivel Mount for Camera Mounting	



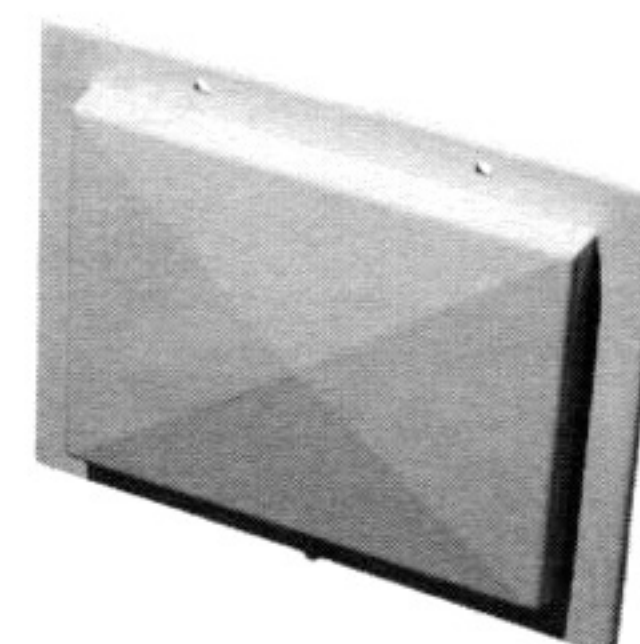
## Medium-Gain Panel Antenna



This antenna is circularly polarized to help reduce the possibility of multipath interference. Low-profile design makes it easy to mount in a fixed or mobile application. Weatherproof radome will handle wind velocity of greater than 100 MPH.

Frequency ..... 1.9-2.0 GHz      Beamwidth ..... ± 85° (typ) Vertical  
    2.4-2.5 GHz      ± 78° (typ) Horizontal  
 VSWR ..... 2.0:1 Max      Antenna Gain ..... 11 dB  
 Polarization ..... Right Hand Circular      Size ..... 6.5" x 8.1" x 0.85"  
    (165.1mm x 205.74mm x 21.6mm)

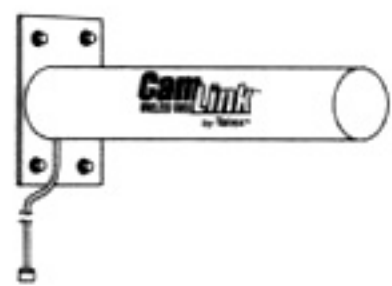
<u>MODEL NUMBER</u>	<u>CONNECTOR</u>	<u>FREQUENCY</u>	<u>APPLICATION</u>
AX-DCPT20	TNC	1.9-2.0 GHz	R200/R200T Receivers, T200 Transmitter
AX-DCPT25	TNC	2.4-2.5 GHz	R200/R200T Receivers, T200 Transmitter, R100 Receiver





# ANTENNAS & ACCESSORIES

## High-Gain Yagi Antenna



Totally enclosed 16-element Yagi antenna can be used as a receive antenna, or as a transmit antenna when configured in the FieldLink system (see below). The minimum recommended height above ground is 5' (1524mm), and all antennas should be at the same height. Heights greater than 20' (6096mm) will give greater range. The accuracy of the orientation should be within plus or minus 15 degrees to achieve maximum gain. This is especially important if path is over one mile in length. Designed to work in all environments, it will perform well over a wide temperature range and will survive winds of at least 80 MPH. Ice or rain will not affect its performance, though heavy rain may increase path loss and reduce range. It should be mounted at least 2' (609.6mm) from other antennas or any metallic items other than the supporting mast.

Frequency ..... 2.4-2.5 GHz  
VSWR ..... Less than 2:1,  
typically 1.5:1  
Gain ..... 13.5 dBi  
Front-to-back Ratio ..... > 20 dB

Beamwidth ..... 30°  
Polarization ..... Vertical  
Size ..... 18" long (457.2mm)  
Cable Length ..... 4' 6" (1372mm)  
Operating Temp ..... +60°C to -40°C

**MODEL NUMBER**  
AXT-YT25

**CONNECTOR**  
TNC

**APPLICATION**  
R200/R200T Receivers



## FieldLink Off-Camera Transmit Antenna System

**FieldLink Off-Camera Transmit Antenna System:** The FieldLink consists of the **High-Gain Yagi** antenna (see above) configured for use on the transmit end of a CamLink II S200 system. Ideal for longer live shots, it can increase the range of the T200 transmitter to distances from 2 miles (with **High-Gain Yagis** at the receive end) to 7 miles (with **Very High-Gain Dish** at the receive end). The FieldLink system includes a lightweight aluminum tripod with removable legs that converts easily from a one-person to two-person configuration, making it perfect for sports, breaking news, and crowded events such as conventions and marathons or in areas such as arenas and sports stadiums where multipath interference can be a problem. A specialized X/Y axis mount adjusts easily for both horizontal and vertical planes. Includes 15' (4572mm) of cable and connectors. Collapses to under 29" (737mm) long. When stored in the optional FLB-1 carrying bag, it fits in an airline overhead storage bin.

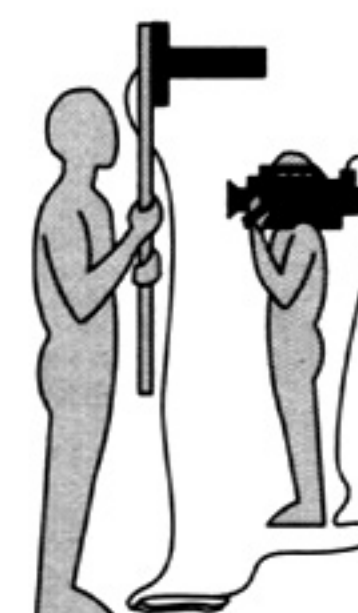
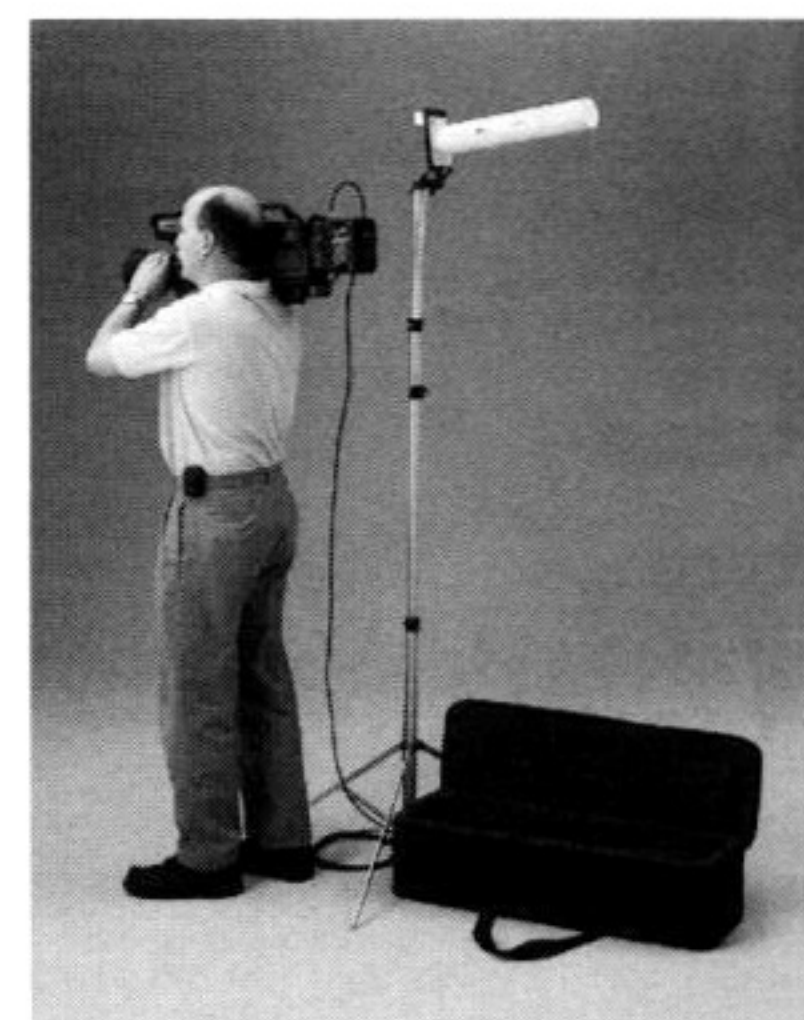
Frequency Range ..... 2.4-2.5 GHz  
VSWR ..... Less than 2:1,  
typically 1.5:1  
Gain ..... 13.5 dBi  
Front-to-back Ratio ..... > 20 dB  
Beamwidth ..... 30°

Polarization ..... Vertical  
Size ..... Collapsed: 29" (737mm)  
Extended: 102" (2591mm)  
Cable Length ..... 15' (4572mm)  
Weight ..... 27 lbs. (1.23kg)  
Operating Temp ..... +60°C to -40°C

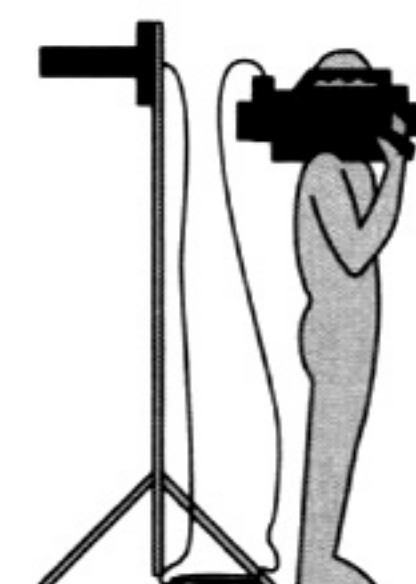
**MODEL NUMBER**  
FL-2  
FLB-1

**CONNECTOR**  
TNC  
FieldLink soft-sided carrying case

**APPLICATION**  
T200 Transmitters



Fieldlink  
Two-Person Configuration



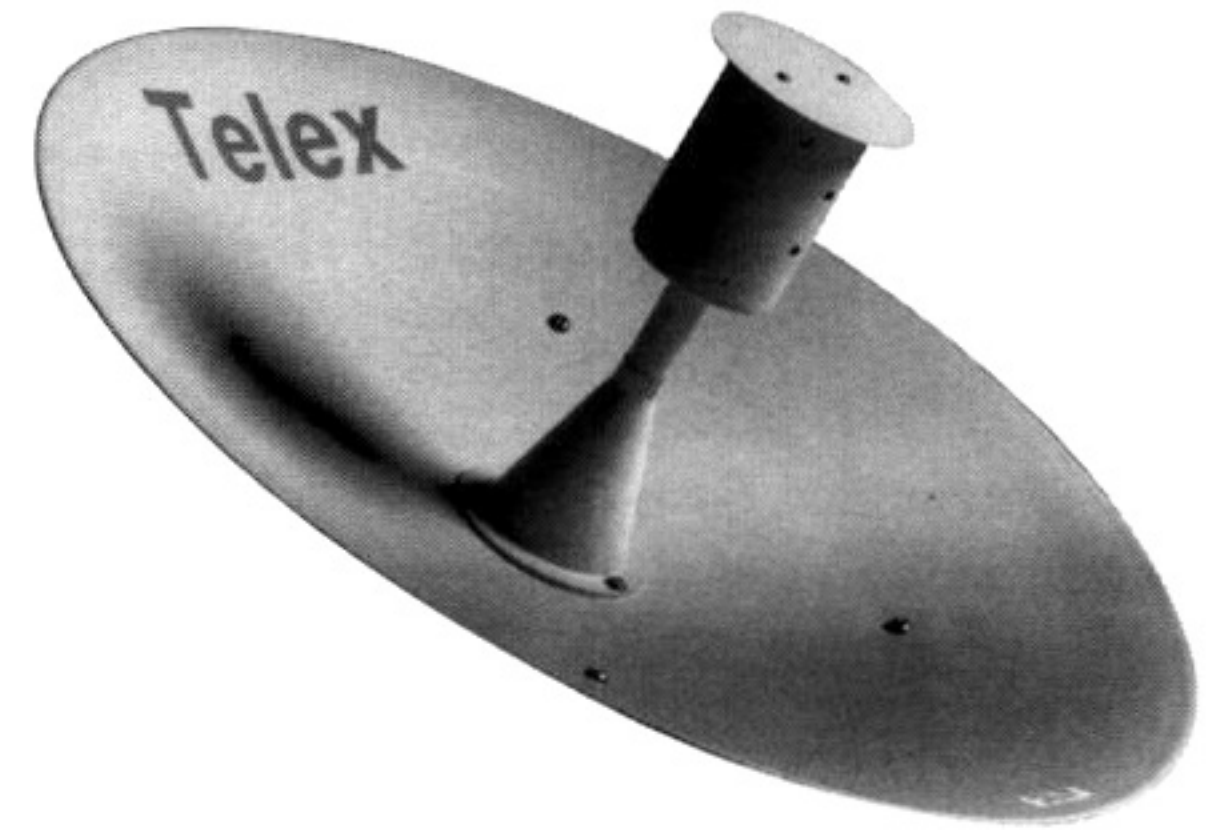
Fieldlink  
One-Person Configuration



## Parabolic Dish Antenna

This lightweight parabolic dish antenna has a diameter of 24" (61cm) and boasts a gain of 21 dBi. Made of lightweight aluminum, the antenna features a rugged mount that allows for easy adjustment on both the horizontal and vertical planes. The antenna will stand up to virtually any environmental condition, with a wind rating of 110 MPH with 1/2" (12.7mm) of ice. Most frequently used as a receive antenna with the R200 and R200T rack-mounted receivers, the parabolic dish antenna can also be used with the T200 transmitter. When used on both ends of a wireless link, ranges of more than 12 miles can be achieved.

Frequency Range .....	2.4-2.5 GHz	Polarization .....	Vertical
VSWR .....	Less than 1.8:1, 1.5:1 nominal	Size .....	24" diameter (609.6mm)
Gain .....	21 dBi	Cable Length .....	15" (381mm)
Front-to-back Ratio .....	> 25 dB	Weight .....	10 lbs. (4.54kg)
Beamwidth .....	12.4°	Wind Rating with 1/2" (12.7mm) ice .....	110 MPH
<b>MODEL NUMBER</b>	<b>CONNECTOR</b>	<b>APPLICATION</b>	
AXD-VT25	TNC	R200/R200T Receivers T200 Transmitters	



## R100 Accessories

### Monitor/VCR Combo

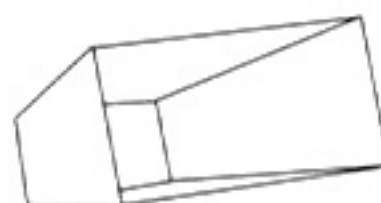
Sony GV-S50 Video Walkman mounts instantly to the R100 handheld receiver for portable viewing in the field. Under serial control of the R100, the VCR can be used to create Instant Window Dubs automatically in sync with a remote camcorder.

Monitor: 4" (101.6mm) LCD Color. VCR: 8mm. Model M-GVS50



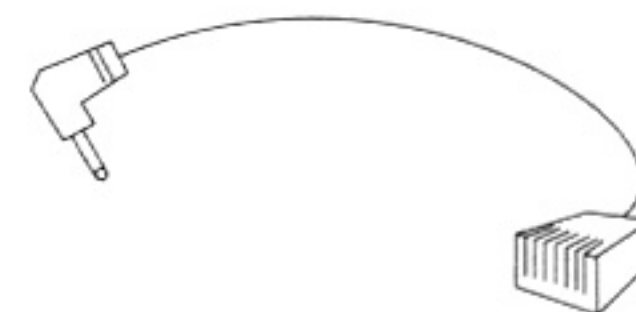
### Sunglare Hood for 4" (101.6mm) Monitor

Includes velcro mounting kit. Model M-HMS



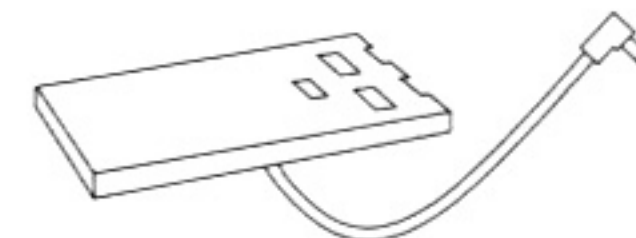
### Serial Control Cable

Provides serial control of M-GVS50 and other Control L/Control S VCRs for synchronous recording of Instant Window Dub using R100 handheld receiver or R200T rack-mounted receiver. Modular Plug to micro-mini. Length: 3" (76.2mm). Model CR-101S



### DC Power Cable

Provides power from R100 receiver to M-GVS50, eliminating the need for separate batteries for the VCR. Model CR-8MM.



### RCA Patch Cables

Audio/Video jumpers from R100 handheld receiver to M-GVS50 or other monitor and/or VCR. Length: 4" (101.6mm). Set of 2. Model CR-102AV



### Carrying Case

Hard plastic protective Pelican case with custom foam insert with cutouts for CamLink S100 system plus M-GVS50, batteries, antennas, and other accessories. Model CC-100








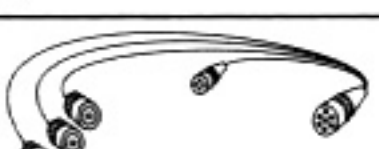
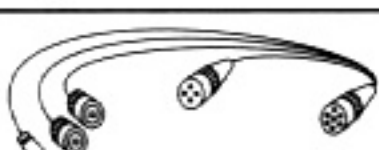
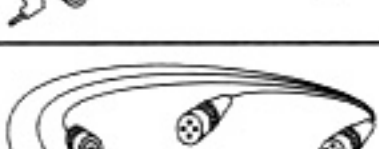
## Antenna Specification Chart and Ordering Information

	MODEL #	DESCRIPTION	TRANSMITTER APPLICABLE	RECEIVER APPLICABLE	FREQ. (GHZ)	POLARIZATION	DIRECTIONAL BEAMWIDTH	GAIN (DBI)	CONNECTOR
1	AX-OCPT20	Omni Rod	T200	R200/200T	2.0	Circular	360	3	TNC
2	AX-OCPT25	Omni Rod	T200	R200/200T	2.5	Circular	360	3	TNC
3	AT-OCPTR25	Omni Rod	T100	No	2.5	Circular	360	3	Reverse TNC
4	AXF-LT2X	LP Flag	T200	R100	2.0-2.5	Linear	120	5	TNC
5	AX-DCPT20	Panel	No	R200/200T	2.0	Circular	90	12	TNC
6	AX-DCPT25	Panel	T200*	R200/200T/R100	2.5	Circular	90	12	TNC
7	AXD-VT25	Dish	T200*	R200/200T	2.5	Linear	20	21	TNC
8	AXT-YT25	Yagi Tube	No	R200/200T/R100	2.5	Linear	30	13.5	TNC
9	FL-2	Field Link Yagi	T200*	N	2.5	Linear	30	13.5	TNC

\* Antenna doesn't mount directly to transmitter, but can be mounted externally and plugged in to transmitter using low-loss antenna cable (such as CA-10/CA-15/CA-20).

## Transmitter Cables

CamLink Transmitters are equipped with a 12-pin snap-lock connector to provide the transmitter with all required signals and inputs, including video, timecode, audio (line-level and mic-level), and 12-volt DC power. The following chart identifies the specific transmitter cables to be used with specific camera configurations.

CAMERA/BATTERY TYPE	CABLE NUMBER		CONNECTORS				AUDIO LEVEL
			Video	Time Code	Audio Connector	12-Volt Power Input Connector	Input
All cameras using Anton/Bauer or PAG batteries	CT-BNC2-L		BNC	BNC	3.5mm phono	None (earphone plug)	Line-level
	CT-BNC2-M		BNC	BNC	XLR-3F	None	Mic Level
One-piece camcorders with NP-1 or BP-90 batteries (such as Sony BVP-200/300/400, Ikegami V55 and others equipped with mini 12V power tap)	CT-BNC24H-L		BNC	BNC	3.5mm phono (earphone plug)	4-pin mini snap-lock	Line-level
	CT-BNC24H-M		BNC	BNC	XLR-3F	4-pin mini snap-lock	Mic Level
Two-piece camcorders with NP-1 or BP-90 batteries (such as those with Sony BVV-5 VTR and others equipped with 4-pin XLR power tap)	CT-BNC24X-L		BNC	BNC	3.5mm phono (earphone plug)	4-pin XLR F	Line-level
	CT-BNC24X-M		BNC	BNC	XLR-3F	4-pin XLR F	Mic Level

## Low-Loss RF Cables

Extremely flexible low-loss cables. Terminated with male and female TNC connector on either end. For use from antennas to R200 receivers or remote mounting of transmit antenna with T200 transmitter.

MODEL NUMBER	CONNECTOR
CA-10	10' (304.8cm)
CA-15	15' (457.2cm)
CA-20	20' (609.6cm)

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