



FREQUENCY AGILE WIRELESS MICROPHONE SYSTEM

Receiver Features

- Optimized channel groups allow up to 16 systems to operate simultaneously in one frequency band. For groups larger than 16, EV can help with the coordination and custom groups are easily programmed.
- Programmable in 25 kHz steps across 24 MHz operating bandwidth, there are over 950 possible channels so you can always find a clear channel.
- Advanced ClearScan,[™] automatic group and channel selections, allows quick, simple setup.
- Backlit LCD Display shows the Sound Engineer the Group/Channel, transmitter battery status, diversity operation, RF and Audio level meters, and space for a custom name (2 lines, 10 characters each).
- Specially designed "Sound Check" mode provides the ability for one person to walk test the microphone in the performance space with tangible results.
- Patented DSP Posi-Phase[™] Diversity System for maximum range and audio quality.
- Balanced XLR microphone output and 1/4 inch unbalanced adjustable line level output to match the application.
- Rackmount hardware included.
- Three-Year Limited Warranty.

Optional APD-4 Antenna Distribution System

- Drives up to four RE-1 diversity receivers using a single pair of antennas to conserve rack space and eliminate the "antenna farm". (8 TNC output and 2 front mount antenna cables included, 1/2 wave antennas sold separately.)
- Supports "cascade" arrangement of multiple APD-4 splitters to allow you to drive up to 16 receivers using just 2 antennas.
- Power outputs for up to four receivers help conserve power strip space. (4 cables included)

Transmitter Features

- Unique "smart" battery circuit in the transmitters means there is no way to put the battery in wrong.
- LCD display and the same four control buttons as the receiver so programming a channel or frequency is quick and easy.
- Low battery LED will light when the battery needs changing and you can check the battery level every time you turn on the transmitter.
- One on/off switch that also acts as a mute, great for pauses in presentations and worship services.
- On/off button can be disabled to prevent accidental turnoffs during a performance.
- Normal and High power transmit means you use just enough power for the application, which maximizes the number of simultaneous systems and limits RF spill over into adjacent buildings/theaters.

Handheld Features

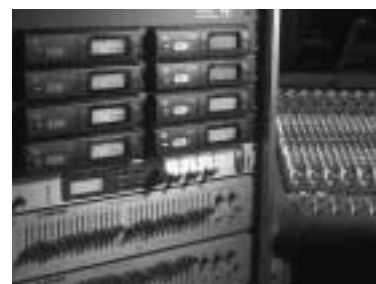
- Interchangeable microphone head allows a choice of elements to fit the vocalist's style and environment.
- N/DYM[®] 767a premium dynamic vocal microphone with VOB[™] (Vocal-Optimized Bass), excellent gain before feedback for high SPL stages.
- The new RE-510 premium condenser vocal microphone for experienced vocalists, spoken word and quieter stages.
- Internal 1/2 wave antenna for excellent range and it stays out of harms way.
- An over-molded Warm-Grip[™] handle reduces handling noise and encourages proper microphone technique for better performances.

Bodypack Features

- Cast magnesium housing weighs only ounces but is durable enough to take the pounding on tour.
- Detachable 1/4 wave antenna allows for easy replacement or using different antenna options.
- Cell phone style beltclip included for quick and easy attachment. Optional pouches also available for wearing under costumes or for more vigorous applications.
- EV has a wide selection of lapel and headworn microphones and microphone accessories to go with the RE-1 bodypack transmitter.

Unique Bodypack Features for Guitar Applications

- Dual band compander circuit provides the audio bandwidth required to cover the lows of a bass guitar to the highs of a solid body.
- Mic/Instrument switch adds a 20 dB pad in the transmit path so the standard bodypack can be used for microphone and guitars.
- Guitar patch cord featuring George L's[®] cable with solderless, interchangeable right angle and straight plugs included to fit your guitar.



CSR-1000 Receiver

Controls

Front Panel: On/Off, Menu, Set, Up, Down Buttons
Rear Panel: 1/4 inch output level

Indicators LCD Backlit Display:

Group, Channel, Diversity, Label, Set-up
Transmitter Battery Level, Audio Signal
Amplitude and RF Signal Strength, Squelch

Connectors

Back Panel: 1/4 inch unbalanced adjustable line level output
XLR balanced mic level output
USB programming port

Antennas: Detachable 1/4 wave

RF Specifications
Frequency Range: A Band 680 – 704 MHz (TV Channels 49-52)
B Band 722 – 746 MHz (TV Channels 56-59)

Number of Channels: 950 possible (programmable in 25kHz steps)

Diversity: DSP SecurePhase True Diversity

Receiver Type: Synthesized PLL Agile UHF

RF Sensitivity: <0.8uV for 12 dB SINAD

FCC Type Acceptance: Approved under Part 15

Audio Specifications
Frequency Response: 100 – 15 kHz +/- 2 dB Microphone
30 – 15 kHz +/- 2 dB Instrument

Audio Output Level:

Line Level: 8 mV - 0.775V RMS @ 100 k ohm load
Balanced: -20 dBV max (@ 40kHz deviation)

Distortion: Less than 0.5% (@ 1kHz, 40 kHz deviation)

Signal to Noise Ratio: > 110 dB(A)

Dynamic Range: >100 dB

General Specifications

Power Supply: External 12 VAC 750mA in-line with cord

Size: 1.72 in. H x 7.50 in. W x 8.38 in. D
43.69 mm H x 190.50 mm W x 212.85 mm D

CSB-1000 Bodypack Transmitter

Controls: Power On/Off, Audio Gain Adjustment with 40 dB range,
Transmit Power Switch, Microphone/Instrument Switch
(0,-20 dB), Menu, Set, Up, Down Buttons

Indicators: Red LED Low Battery Indicator, LCD displays one of the
following: Channel/Group, Frequency, or Battery Level

Battery Life: 8 hours with 9V alkaline typical

Antenna: External 1/4 wave detachable

Connector: TA4F input for microphone Pin 1 ground, Pin 2 Mic input
Pin 3 +5V Bias, Pin 4 +5V through 3k ohm

RF Output:

Normal: 5 mW typical
High: 50 mW typical

Case Material: Cast Magnesium

Size: 4.4 in. H x 2.6 in. W x 0.9 in. D
111 mm H x 66 mm W x 23 mm D

CSH-1000 Handheld Transmitter

Controls: Power On/Off, Audio Gain Adjustment with 26 dB range
Transmit Power Switch, Menu, Set, Up, Down Buttons

Displays: Red LED Low Battery Indicator, LCD displays one of the
following: Channel/Group, Frequency, or Battery Level

Battery Life: 8 hours with 9V alkaline typical

Antenna: Internal 1/2 wave

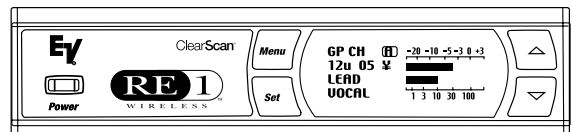
Microphone Elements: EV N/D 767a Dynamic or RE-510 Condenser

RF Output:

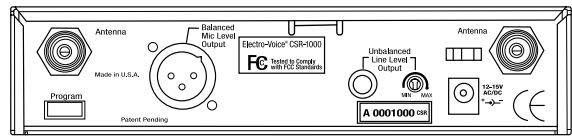
Normal: 5 mW typical
High: 50 mW typical

Size: 10.5 in. (26.8 cm) long

CSR-1000 Receiver



Front

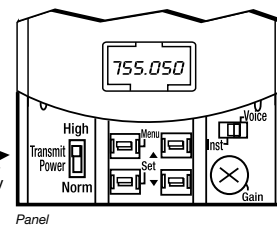


Back

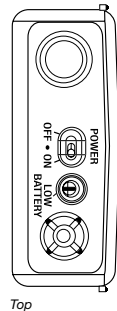
CSB-1000 Bodypack Transmitter



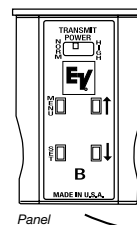
Front



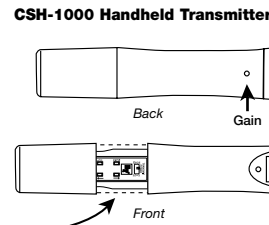
Panel



Top

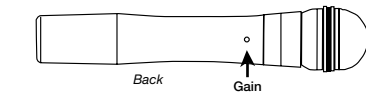


Panel

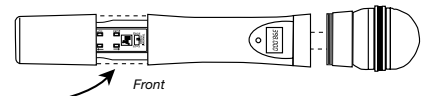


Front

CSH-1000 Handheld Transmitter



Back



Front

RE-1 Accessories and Parts

	Model #	Order #
Omnidirectional MicroMini™ Lapel Mic:	RE90TX	71753318
Unidirectional MicroMini™ Lapel Mic:	ELM-33S	70926001
Crown® CM-311 Headworn Uni Mic:	HM311	HM311
Headworn Cardioid Condenser Mic:	HM7	HM7
1/4 Wave Rx Antenna 600-746 (A/B):	ANU-14	879010
1/2 Wave Rx Antenna (A) (680-730 MHz):	CLA-5 (GREEN)	870658-5
1/2 Wave Rx Antenna (B) (720-780 MHz):	CLA-6 (ORANGE)	870658-6
1/2 Wave Antenna Bracket:	AB-2	71138000
Antenna / Pwr Distribution (A/B) (600-780 MHz):	APD- 4	APD4
Termination Plug For APD-4:	TP-2	650095
Directional Rx Antenna (450-900 MHz):	LPA-500	LPA500
Low Loss Coaxial Antenna Cable:		
	CXU-25 ft	71151025
	CXU-50 ft	71151050
	CXU-75 ft	71151075
	CXU-100 ft	71151100
1/4 Wave Bodypack Tx Antenna (A):	AN-Flex A (GREEN)	879220-4
1/4 Wave Bodypack Tx Antenna (B):	AN-Flex B (RED)	879220-5
1/4 Wave Super-Flex Tx Antenna (A):	AN-Sflex A (GREEN)	879538-4
1/4 Wave Super-Flex Tx Antenna (B):	AN-Sflex B (RED)	879538-5
Bodypack Pouch:	WP-1000	879553
Guitar Cord:	MAC-G2	879526
767a Dynamic Head for CSH-1000:	RC767A	71837000
RE510 Condenser Head for CSH-1000:	RC510	71839000
Mic Stand Adapter for CSH-1000:	MSA-1000	879564



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12000 Portland Avenue South
Burnsville, Minnesota 55337
1-800-392-3497
www.electrovoice.com