

TELEX

ENG-100 UHF

WIRELESS MICROPHONE SYSTEM



UHF
668-746 MHz

100
CHANNELS

UP TO
10
SIMULTANEOUS
SYSTEMS

PORTABLE
RECEIVER

HANDHELD
MIC
TRANSMITTER

PLUG-ON
MIC
TRANSMITTER

BODYPACK
TRANSMITTER

TELEX.

ENG-100 UHF

WIRELESS MICROPHONE SYSTEM



Key features

- Frequency-agile 100-channel ENG-100 UHF receiver mounts on and interfaces with virtually all professional camcorders.
- Dual integral antennas and Posi-Phase™ diversity assures clear, superior quality, drop-out free audio.
- ENG-100 receiver provides side-mounted controls, XLR mic output, headphone output and internal (two AA batteries) or external power for hassle-free field operation.
- UT-102 universal plug-on transmitter adds any dynamic and most electret condenser mics to the ENG-100 system. Ideal mate for Electro-Voice® RE50—the classic TV reporter's handheld mic.



Clear, accurate sound for news teams on the go.

In TV news and event videography, sound is as important as pictures. The Telex® ENG-100 UHF wireless microphone system captures every critical word with the reliable performance that nonstop news gathering demands. The ENG-100 system fits a wide range of field operations with three different transmitters: handheld mic, plug-on mic, and bodypack. The lightweight, camera-mounted receiver offers 100-channel UHF frequency agility in the 668-746 MHz range, with Posi-Phase™ diversity for clear reception under the most difficult conditions. Whether you're shooting breaking news, a corporate video, or a live event, depend on the ENG-100 to accurately capture the other half of the story: the sound.

SYSTEM CONFIGURATIONS AND COMPONENTS

- ENG-100 UT SYSTEM INCLUDES:**
- ENG-100 UHF 100-channel receiver.
 - UT-102 plug-on two-channel transmitter.
 - SEB-1 single earbud with cord.
 - XLR-to-pigtail audio cable.

- ENG-100L SYSTEM INCLUDES:**
- ENG-100 UHF 100-channel receiver.
 - LT-100 bodypack transmitter.
 - ELM-225 omni-directional lapel microphone.
 - SEB-1 single earbud with cord.
 - XLR-to-pigtail audio cable.

- ENG-100 UHF SYNTHESIZED MIC RECEIVER.**
- 100-channel, frequency-agile operation; 668-746 MHz.
 - Posi-Phase™ II Smart Diversity reception.
 - Posi-Squelch™ III Auto Suppression.
 - Tone-code squelch.
 - Mounts on most professional camcorders.
 - Balanced XLR mic output.
 - Headphone monitor jack.
 - Operates on two internal AA batteries or external 9-17 VDC source.

- LT-100 UHF SYNTHESIZED BODYPACK TRANSMITTER.**
- 100 selectable channels.
 - Power on/off and silent audio on/off switches.
 - Four-segment battery life indicator.
 - TA-4M mic connector.
 - High/low transmit power output.
 - Operates on two AA batteries; has external charging pin for use with BC-100 drop-in pocket charger.

- SH-100/OM-3 UHF SYNTHESIZED HANDHELD MIC TRANSMITTER.**
- Audix cardioid dynamic mic head.
 - 100 selectable channels.
 - Power on/off and silent audio on/off switches.
 - Four-segment battery life indicator.
 - High/low transmit power output.
 - Operates on two AA batteries.

- UT-102 UHF CRYSTAL-CONTROLLED PLUG-ON MIC TRANSMITTER.**
- Two-channel, frequency agile.
 - Separate power on/off and mic mute switches.
 - Low battery/overmodulation indicator.
 - Rugged metal aircraft alloy case.
 - Operates with dynamic or condenser mics; provides +5 VDC power for electret mic elements.
 - Operates on one 9-volt battery.

RECEIVER/CAMCORDER MOUNTING OPTIONS

DC-GM

Anton/Bauer™ "Sandwich" Mount.



Mounts ENG-100 between camera and an Anton/Bauer battery. Made with Anton/Bauer supplied parts. Fully compatible with Anton/Bauer Gold Mounts and Digital Gold Mounts.

DC-SM

Anton/Bauer™ Side Mount Plate.



Attaches ENG-100 to Anton/Bauer-brand side mount accessory.

DC-UM

Universal Strap Mount Kit.



Universal mounting device fits virtually any video camera. Adjustable, self-locking Velcro™ strap assures a secure mount.

DC-NP1

Standard NP-1/BP-90 Mount Kit.



Allows ENG-100 to be mounted on a standard NP-1 or BP-90 battery holder. Can be easily installed and removed with thumb screws.

Operating Frequencies

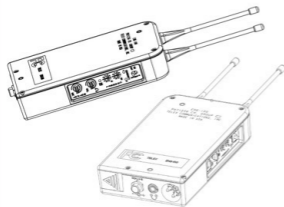
TWO STANDARD FREQUENCY OPTIONS				
FREQUENCY GROUP "A"				
Channels 00-99	686.1-679.5 MHz		UHF TV Channels 47-48	
FREQUENCY GROUP "B"				
Channels 00-99	734.1-745.5 MHz		UHF TV Channels 58-59	
UT-102 FREQUENCY				
ORDER SUFFIX	-A16	-A45	-B20	-B47
ENG-100 GROUP/CHANNEL	GROUP/CHANNEL	GROUP/CHANNEL	GROUP/CHANNEL	GROUP/CHANNEL
A 16	A 45	B 20	B 47	
A 51	A 79	B 51	B 72	
FREQUENCY				
CHANNEL 1	670.100	673.100	736.500	739.300
CHANNEL 2	674.200	677.400	740.200	742.700
TV CHANNELS				
CHANNEL 1	47	47	58	58
CHANNEL 2	48	48	59	59

Accessories & Parts

ORDER NUMBER	DESCRIPTION
AN-HTB 879220-4	Replacement antenna for ENG-100 receiver Covers 636-725.9 MHz
AN-HTB 879220-5	Replacement antenna for ENG-100 receiver Covers 726-825.9 MHz
MAC-2 63841-002	XLR to TA4 adaptor cord

SPECIFICATIONS

ENG-100 Receiver



Controls

Mic output level trim, headphone volume, channel selectors, power switch.

Displays/Indicators

On/low battery indicator. Diversity A/B antenna indicators.

Connectors

XLRF mic-level balanced output. Headphone jack. External power jack.

Antennas

1/4-wave rubber ducky type antennas

Frequency ranges 668-680 MHz and 734-746 MHz

Number of channels 100 within UHF TV channels 47-48 or 58-59

Diversity technology Posi-Phase™ phase diversity with two antennas attached

RF stability 0.005% or better

Modulation type FM, 40 kHz at -3 dB points

Receiver type Single conversion, 10.7 MHz IF

IF bandwidth 180 kHz at -3 dB points

Image rejection 65 dB or better

Hum and noise -100 dB

Squelch Fixed, internal, 31.250 kHz tone + amplitude

Squelch quieting 100 dB

Squelch level 1.5 μ V

Receiver sensitivity Less than 1.0 μ V for 12 dB SINAD; 0.7 μ V typical

FCC type acceptance Part 15

Audio specifications

Frequency response 50-15,000 Hz \pm 1 dB

Audio output Mic: -10 to -60 dBV into 200 ohms

Headphone 16-32 ohms

Distortion Less than 1%

Signal-to-noise ration 110 dB

General specifications

Dimensions 3"W x 5"H x 1"D

Weight 8 oz.

Input power 2 AA-size alkaline batteries, or 9-17 VDC external

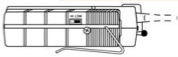
Battery life 6-8 hours (alkaline)

Temperature range -4°F to +130°F (-20°C to +55°C)

LT100 Bodypack Transmitter

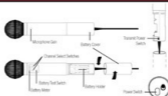


Dimensions 4.0"H x 2.75"W x 1.0"D
Weight 4 oz.
Part number 7122500X



Number of channels	100 use-selectable channels in two ranges
Power output	10.0 mW high switch setting, 1.0 mW low setting (terminated)
Antenna	Permanently attached
Microphone	Dynamic or electret, +5 VDC bias
DC power	2 AA-size alkaline batteries
Battery life	Up to 9 hours high output power, 12 hours low power
Battery indicator	Four-segment indicator, test switch
Approvals	FCC Part 74H, Industry Canada RSS 123

SH-100 Handheld Mic Transmitter



Dimensions 1.35" nominal diameter
10.0" long
Weight 8 oz.
Part number 7122100X

Number of channels	100 use-selectable channels in two ranges
Power output	10.0 mW high switch setting, 1.0 mW low setting (terminated)
Antenna	Permanently attached
Microphone	Audix cardioid dynamic mic element
DC power	2 AA-size alkaline batteries
Battery life	Up to 9 hours high output power, 12 hours low power
Battery indicator	Four-segment indicator, test switch
Approvals	FCC Part 74H, Industry Canada RSS 123

UT-102 Plug-on Mic Transmitter



Dimensions 3.5"H x 1.5"W x 1.5"D
Weight 8 oz.
Part number 71316-XXX

Number of channels	2
Power output	45 mW typical
Antenna	Internal and attached microphone handle
Microphone	Dynamic or electret, +5 VDC bias
DC power	One 9-volt alkaline battery
Battery life	6-8 hours, alkaline battery
Battery indicator	Red LED lights when battery is low
Overmodulation Indicator	Red battery LED flashes with audio overmodulation
Approvals	FCC Part 74H, Industry Canada RSS 123

TELEX COMMUNICATIONS

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