



330 DUAL-CHANNEL CAMERA-MOUNT UHF WIRELESS MICROPHONE SYSTEM

330UPR - 35BT - 35HT - 35XT



INSTRUCTION MANUAL

Thank you for purchasing the Azden 330 Dual-Channel Wireless Microphone system. The following table will show you the contents of the system you ordered:

330ULT

- 1 x 330UPR Dual-Channel Receiver
- 1 x Stereo Mini-to-Dual XLR Cable
- 1 x Stereo Mini-to-Stereo Mini Cable
- 2 x 35BT Body-Pack Transmitter
- 2 x EX-503L Lavalier Microphone

330ULH

- 1 x 330UPR Dual-Channel Receiver
- 1 x Stereo Mini-to-Dual XLR Cable
- 1 x Stereo Mini-to-Stereo Mini Cable
- 1 x 35BT Body-Pack Transmitter
- 1 x EX-503L Lavalier Microphone
- 1 x 35HT Handheld Microphone/Transmitter

330ULX

- 1 x 330UPR Dual-Channel Receiver
- 1 x Stereo Mini-to-Dual XLR Cable
- 1 x Stereo Mini-to-Stereo Mini Cable
- 1 x 35BT Body-Pack Transmitter
- 1 x EX-503L Lavalier Microphone
- 1 x 35XT XLR Plug-in Transmitter

Operating the System

WARNING

- Do not use other batteries than the ones specified in this manual. Do not mix fresh battery with a used battery.
- When installing batteries, make sure battery polarity is correct as marked inside the battery compartment.
- Remove the batteries if the products are not used for a long period of time.
- Do not submerge the products.

Because this is a frequency agile system, the receiver and transmitter must be on the same channel number. To change the channel selection, use the tip of the provided tool and press the “UP” or “DOWN” button to the desired channel. Make sure both the receiver and transmitter are on the same channel.

330UPR Dual-Channel Receiver

After installing new batteries, mount the receiver to your video camera with supplied shoe mount or hook & loop fastener. Select one of the supplied cables and connect the output on the receiver and input on the video camera. Turn the power switch for Ch. 1 and/or Ch. 2 to “ON” and the battery level indicator on the LCD display should come on. If not, check the batteries. When the 330UPR receives a signal from the transmitter, the reception level indicator will come on. If it does not, make sure both the receiver and the transmitter are on matching channels.

35BT Body-Pack Transmitter

Plug in the supplied EX-503L Lavalier Microphone and clip it to your subject. The microphones should be placed 4”-12” from the subject’s mouth. Clip the transmitter to a belt by using the supplied belt clip or place it in a pocket. Turn the power switch to “ON” and the battery level indicator on the LCD display should come on. If not, check the battery. Have someone speak into the microphone as you monitor the sound through the 330UPR Receiver’s phone output. If the sound is distorted, lower the MIC input level on the 35BT Transmitter. If there is not enough volume, raise the MIC input level on the Transmitter.

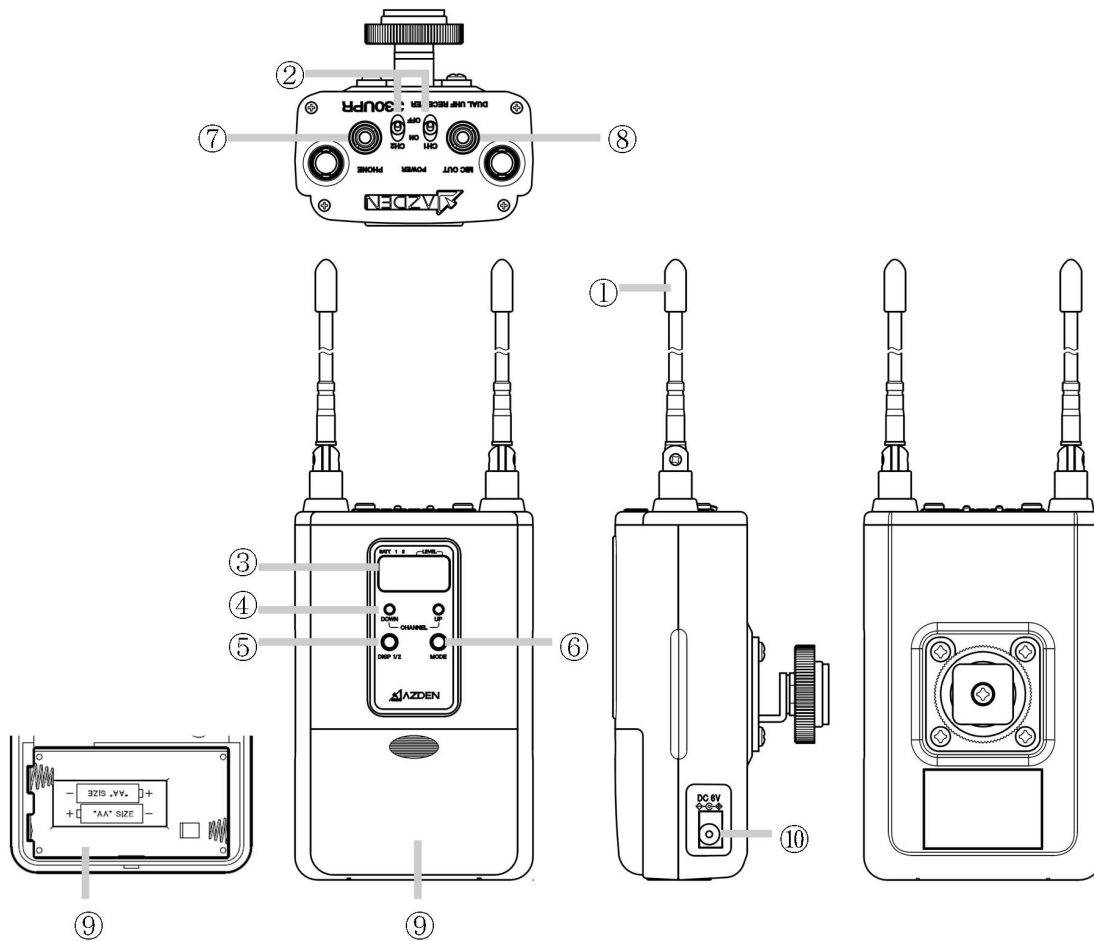
35XT Plug-in Transmitter

Attach the 35XT Transmitter to any low impedance microphone with a corresponding 3-pin XLR connector. Turn the power switch on the 35XT Transmitter to “ON” position and the battery level indicator on the LCD display should come on. Have someone speak into the microphone as you monitor the sound through the camera’s monitor output. If the sound is distorted, lower the MIC input level control on the 35XT Transmitter. If there is not enough volume, raise the level control on the Transmitter.

35HT Handheld Microphone/Transmitter

Turn the power switch on the 35HT Transmitter to “ON” position and the battery level indicator on the LCD display should come on. Have someone speak into the microphone as you monitor the sound through the camera’s monitor output. Adjust the MIC input level control accordingly.

330UPR Dual-Channel Receiver



① Antennas

For the best reception, the antennas should be pointed in an upward position. Use caution and do not force them into this position.

② Power Switch for each Channel

A separate Power Switch for Channel 1 and 2.

③ Universal LCD Display for Ch. 1 and 2

The LCD Display shows multifunctional readout and can be switched between the channels by pressing the DISP 1/2 Button (5). Refer to “LCD Display Readouts” in this manual for further details.

④ CHANNEL UP and DOWN Button

To change the channel number, use a small, sharp object, such as the tip of a pen, and press the UP or DOWN button until the desired channel number is shown on the LCD Display. Keep the button pressed down to fast forward the channel numbers. Once the desired channel number is selected on the receiver, set the transmitter to the same number.

⑤ **DISP 1/2 Button**

Press to switch the LCD Display between Ch. 1 and 2.

⑥ **LCD Display MODE Switching Button**

Press to switch the LCD Display to show the actual frequency number in MHz being used on each channel.

⑦ **PHONE Jack**

This jack allows you to monitor the sound. If a stereo headphone is used, Ch. 1 will be heard on the left and Ch. 2 on the right.

⑧ **MIC OUT Jack**

The 330UPR is supplied with both mini-to-mini and mini-to-dual XLR cables.

For mini jack microphone inputs: Use the supplied mini-to-mini cable. Plug one end of the cable into the 330UPR Receiver and the other end into the microphone input of the video camera.

For 3-pin XLR microphone inputs: Use the supplied mini-to-dual XLR cable. Plug the mini-plug end of the cable into the 330UPR Receiver (use the screw-down sleeve to secure it to the receiver) and plug the XLR ends into the microphone inputs on the video camera. Ch. 1 is on the “Tip” and Ch. 2 on the “Ring”.

⑨ **Battery Compartment**

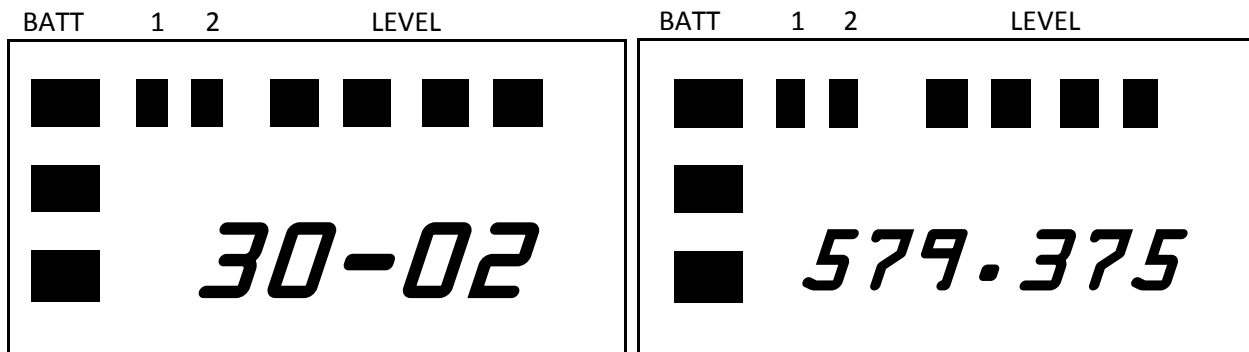
Remove the battery compartment lid by sliding it down. Install two fresh alkaline “AA” batteries. Make sure the battery polarity is correct as marked inside the battery compartment. Alkaline batteries are preferred, but Azden’s 1HR-3U rechargeable Ni-MH batteries may be used.

The tool to operate the channel UP and DOWN buttons is stored in the battery compartment.

⑩ **DC 6 Volt Input**

An optional AC adaptor/battery charger for Azden’s 1HR-3U rechargeable Ni-MH batteries is available for the 330UPR. For more information or to order these products, please visit the Azden website at www.azdencorp.com or contact your Azden dealer.

LCD Display Readouts



Displays the selected channel between Ch. 1 and Ch. 2.

TV channel number (30 – 33)

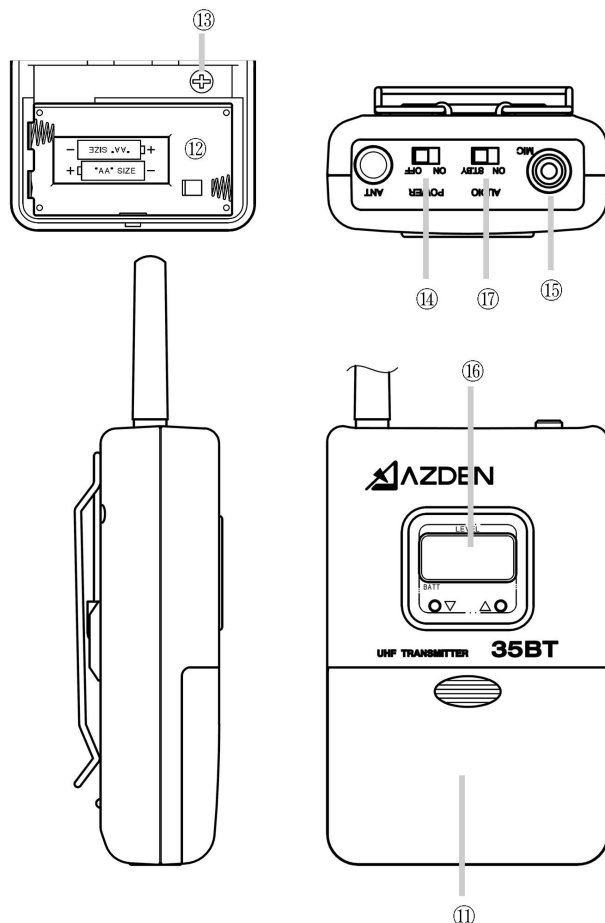
Transmit channel number (01 -47)

Reception level indicator: 4 bars = High, 1 bar = Low

Battery level indicator: 3 bars = High, 1 bar = Low

The actual frequency number in MHz. Push the MODE button to see this display.

35BT Body-Pack Transmitter



⑪ **Battery Compartment Lid**

Remove the battery compartment lid by sliding it down.

⑫ **Battery Compartment**

Install two fresh alkaline “AA” batteries. Make sure the battery polarity is correct as marked inside the battery compartment.

Inside the battery compartment, you will also find:

⑬ **MIC Input Level Control**

This control enables you to adjust the input level of the microphone. Using the supplied tool, also found inside the battery compartment, turn the orange dial clockwise to increase, or counterclockwise to decrease the input level.

⑭ **POWER Switch**

Switches the 35BT Transmitter “ON” or “OFF”.

⑮ **MIC Input Jack**

Plug the supplied EX-503L Lavalier Microphone into the MIC input jack. In addition to the EX-503L, other lapel and/or headset microphones with 3.5mm mini plug may also be used with the 35BT.

⑯ **LCD Display**

The display shows the following information:

TV Ch – Transmit Channel Number (i.e. 30 – 01, 31 – 12, 33 – 47)

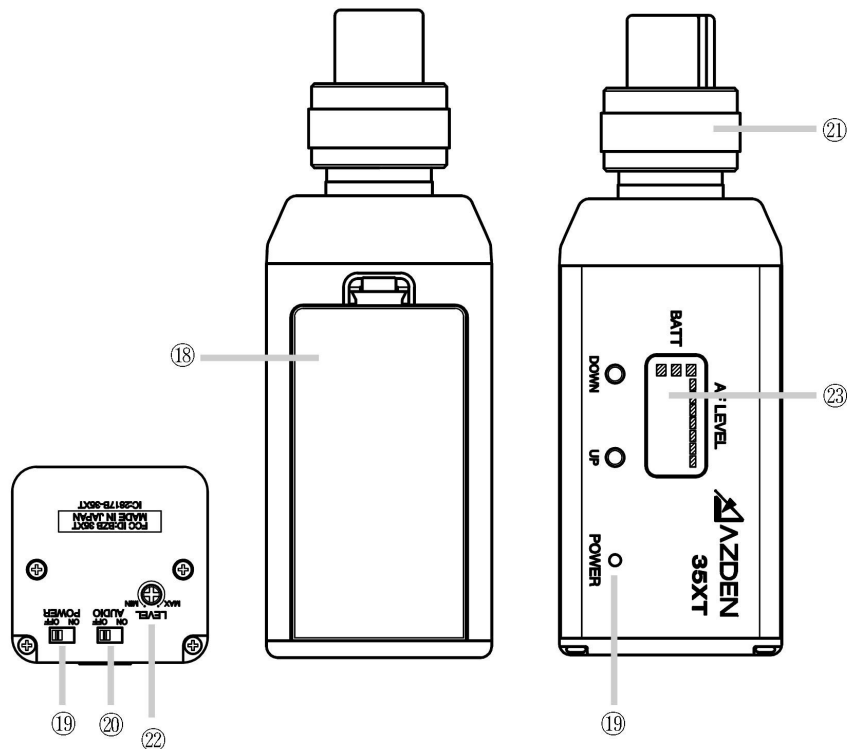
The TV – Transmit channel display is made of two parts. The first two digit number is the actual TV channel (30-33) and the second two digit is the transmit channel number (01-47).

Battery level by 3-bar indicator (3 bars = High, 1 bar = Low)

⑰ **AUDIO Switch**

It is best to set the AUDIO switch to “OFF” prior to first turning the POWER switch “ON”. When you are ready to begin transmitting, turn the AUDIO “ON”. The “OFF” position acts as “mute” that maintains the RF signal but turns off the audio.

35XT Plug-in Transmitter



⑱ Battery Compartment

Open the battery compartment lid by pushing down on the tab and lifting it up. Install two fresh alkaline “AA” batteries. Make sure the battery polarity is correct as marked inside the battery compartment.

⑲ POWER Switch

Turns the 35XT Transmitter “ON” or “OFF”.

⑳ AUDIO Switch

It is best to set the AUDIO switch to “OFF” prior to first turning the POWER switch “ON”. When you are ready to begin transmitting, turn the AUDIO “ON”. The “OFF” position acts as “mute” that maintains the RF signal but turns off the audio.

②① MIC Connector/Locking Ring

This 3-pin XLR connector is the microphone input. Any low impedance microphone with a corresponding connector may be plugged here. Once the microphone is plugged into the 35XT, the locking ring should be rotated clockwise until snug. To remove the microphone, first rotate the locking ring counterclockwise and then pull the microphone away while pressing the XLR release.

②② MIC Input LEVEL Control

This enables you to adjust the input level of the connected microphone. Using the supplied tool, turn the orange dial clockwise to increase, or counterclockwise to decrease the input level.

②③ LCD Display

The LCD display shows the following information:

TV Ch – Transmit Channel Number (i.e. 30 – 01, 31 – 12, 33 – 47)

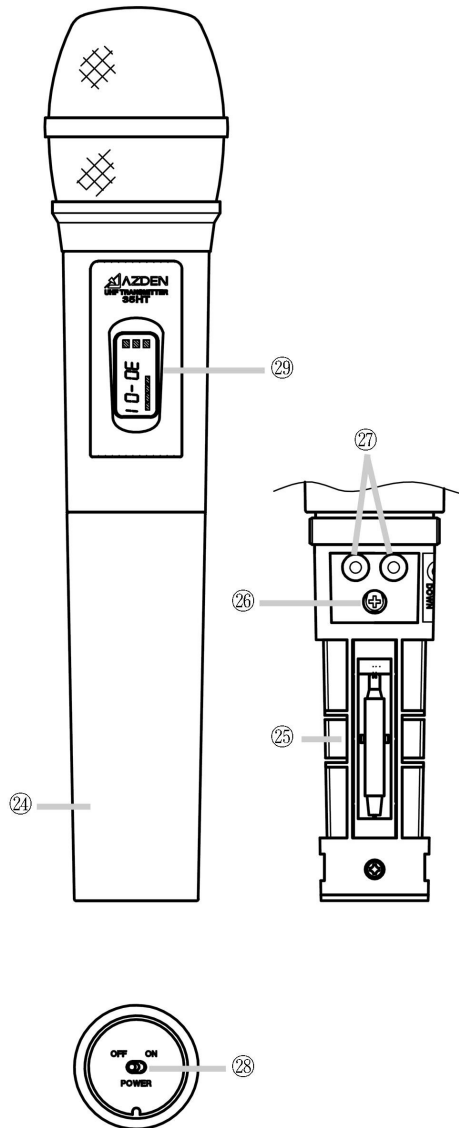
The TV – Transmit channel display is made of two parts. The first two digit number is the actual TV channel (30-33) and the second two digit is the transmit channel number (01-47).

Battery level by 3-bar indicator (3 bars = High, 1 bar = Low)

AF (Audio Frequency) level by 4-bar indicator (4 bars = High, 1 bar = Low)

To change the channel number, use the tip of the tool provided and press the UP or DOWN button until the desired channel number is shown on the LCD Display. Keep the button pressed to fast forward the channel numbers.

35HT Handheld Microphone/Transmitter



②④ Battery Compartment Cover

Remove the battery compartment cover by rotating it counterclockwise and sliding it down.

②⑤ Battery Compartment

Install two fresh alkaline “AA” batteries. Make sure the battery polarity is correct as marked inside the battery compartment.

②⑥ MIC LEVEL Control

This enables you to adjust the audio level of the microphone. Using the supplied tool, turn the orange dial clockwise to increase, or counterclockwise to decrease the audio level.

②⑦ **Channel UP and DOWN Button**

To change the channel number, use the tip of the tool provided and press the UP or DOWN button until the desired channel number is shown on the LCD Display. Keep the button pressed to fast forward the channel numbers.

②⑧ **POWER Switch**

Turns the 35HT Transmitter/Microphone “ON” or “OFF”.

②⑨ **LCD Display**

The LCD display shows the following information:

TV Ch – Transmit Channel Number (i.e. 30 – 01, 31 – 12, 33 – 47)

The TV – Transmit channel display is made of two parts. The first two digit number is the actual TV channel (30-33) and the second two digit is the transmit channel number (01-47).

Battery level by 3-bar indicator (3 bars = High, 1 bar = Low)

AF (Audio Frequency) level by 4-bar indicator (4 bars = High, 1 bar = Low)

Specifications

330UPR Receiver

Frequency Range:	UHF 188 Selectable Frequencies (566.125-589.875MHz)
Type of Reception:	Dual-Channel Receiver
Oscillator:	PLL Synthesized
RF Squelch Level:	-95 dBm
Frequency Response:	50Hz – 15kHz
S/N Ratio:	>57dB (\pm 5kHz) "A" Weighted
Audio Out:	MIC Level – Unbalanced – 3.5mm Mini Jack -64 dBm – 600 ohms @ \pm 5kHz deviation -28 dBm – 600 ohms @ \pm 40kHz deviation
Batteries:	2 "AA" Alkaline (2 x 1.5V), 6-8 hours runtime 2 "AA" Rechargeable Ni-MH (2 x 1.2V)
External Power:	6VDC @ 0.5A
Dimensions:	2 7/8" x 4 7/16" x 1 5/8" (73 x 113 x 40.5mm)
Weight:	Approx. 10oz (290g) w/ batteries

35BT Body-Pack Transmitter

Frequency Range:	UHF 188 Selectable Frequencies (566.125-589.875MHz)
Oscillator:	PLL Synthesized
RF Power:	25mW
Frequency Response:	50Hz – 15kHz
Max Deviation:	\pm 40kHz @ 1kHz Modulation, MIC input – 11dBm
Batteries:	2 "AA" Alkaline (2 x 1.5V), 6-8 hours runtime 2 "AA" Rechargeable Ni-MH (2 x 1.2V)
Dimensions:	2 1/2" x 3 15/16" x 1 1/16" (64 x 100 x 27mm)
Weight:	Approx. 6oz (170g) w/ batteries

35XT Plug-in Transmitter

Frequency Range:	UHF 188 Selectable Frequencies (566.125-589.875MHz)
Antenna:	Internal
Max Input Level:	-16dBm
RF Power:	25mW
Input Impedance:	25k ohms
Audio Adjust Range:	-65dBm to 46dBm
Batteries:	2 "AA" Alkaline (2 x 1.5V), 6-8 hours runtime 2 "AA" Rechargeable Ni-MH (2 x 1.2V)
Dimensions:	1 9/16" x 1 9/16" x 4 1/2" (40 x 40 x 114mm)
Weight:	Approx. 6.4oz (180g) w/ batteries

35HT Handheld Microphone/Transmitter

Frequency Range:	UHF 188 Selectable Frequencies (566.125-589.875MHz)
Oscillator:	PLL Synthesized
RF Power:	25mW
Frequency Response:	50Hz – 15kHz
Max Deviation:	\pm 40kHz @ 1kHz Modulation, MIC input – 65dBm (dev \pm 5kHz)
Batteries:	2 "AA" Alkaline (2 x 1.5V), 6-8 hours runtime 2 "AA" Rechargeable Ni-MH (2 x 1.2V)
Dimensions:	ϕ 1 7/8" x 9 9/16" L (48 x 234.5mm)
Weight:	Approx. 9.6oz (270g) w/ batteries

Due to constant improvements, specifications are subject to change without notice.