

WaveCAST

WF T5



WaveCAST provides true, professional audio quality over Wi-Fi, and features DSP audio processing. Setting up and configuring the WaveCAST for the Wi-Fi network is straightforward and simple. Up to four WaveCAST systems can be connected to the same Wi-Fi network to provide multiple listening channels, supporting 45 users in unicast mode or 1500+ users in multicast mode.

The WaveCAST audio processor offers multiple preset audio options. The high quality audio can be optimized for hearing assistance, music can have high-fidelity playback, and voice can be set for maximum speech intelligibility. Custom pre-sets can also be created to meet specific performance needs.

Note: Newer models of the WaveCAST have some improved features. These models have a serial number starting with C or later. Earlier model's (with a serial number beginning with A or B) specifications are available later in this document.

WaveCAST (WF T5) with Serial Numbers starting with C

Dimensions	8.45" W x 8.25" D x 1.72"H (21.5 cm x 21 cm x 4.4 cm)
Weight	Transmitter: 3.0 lbs (1.36 kg)
Color	Black/Silver with silver legends on the front, white legends on the back
Rack Mount	Standard 19" Rack, one EIA rack space high, 1/2 space wide 1–2 units can be mounted in a single rack space with optional RPK 005 (single) or RPK 006 (double) Rack Mount Kits
Power Supply	Desktop Style Transformer (TFP 062); Input: 100-240 VAC, 50/60 Hz. IEC Line Cord; Output: 24 VDC, 750 mA, 18W. 2.5mm ID center positive barrel connector
Power ON Indicator	Push On/Push Off latching power button, backlit green indicates power ON, backlight off indicates power OFF, fading from bright to dark indicates Sleep Mode.
Temperature Range	Operating: +32° F to +122° F (0° C to 50° C); Storage: -4° F to +158° F (-20° C to 70° C)
User Interface	Front panel buttons or hosted web interface
Audio Processor Functions	DSP based; Compression: 1:1, 1.5:1 or 2:1; High-pass and Low-pass Filter Frequency control

Frequency Response	31 – 16000 Hz, ± 3 dB (“Music” Audio Preset)	
Signal-to-Noise Ratio	≥ 74 dB Transmitted RF	
Total Harmonic Distortion	Less than 0.25% @ 1 kHz (RF output)	
Common Mode Rejection	> 57 dB @ 1 kHz, Mic or Line	
Audio Inputs	(1x) Combination 3-pin XLR, 1/4” (TRS) jack for Mic or Line Level Analog Audio, Balanced or Unbalanced Line Level, or balanced or unbalanced microphone with Selectable Phantom Power	
Audio Input Gain Adjust	In menu, adjustable to 0 to -50 dB, in 1dB steps	
Phantom Power	14.4 VDC applied through 2.2 k Ω resistors to analog combo jack: Pin 2 and Pin 3 on XLR jack, or tip and ring on 1/4” TRS jack	
Audio Level Indicators	10-LED array that reads -18 to +9 dB at 3 dB intervals. 7 Green, 2 Amber, and 1 red LED. Green LEDs indicate normal operating audio level peaks, Amber LEDs indicate close to overload peaks, Red LED indicates overload peaks	
Headphone Output	1/4” TRS stereo jack, mono signal, 15.7 mW, maximum in 33 Ω (level adjustable in menu 0 to -40 dB in 2 dB steps). Directly tied to rear 1/4”/XLR input for purpose of listening/checking incoming audio.	
Line Output	RCA jack (black), -10 dBV (.32 VRMS); Output impedance 100 Ω	
Input Levels (Bal or Unbal) (at Audio Input Gain = 0dB)	Nominal (1st Amber LED)	Overload Warning (Displayed on Screen)
Microphone	-55 dBV (1.7 mV RMS)	-15 dBV (180 mV RMS)
Line	-25 dBV (55 mV RMS)	+16 dBV (6.3 V RMS)
Ethernet	RJ-45 on back of unit supports CAT 5e cable lengths up to 328 feet (100 meters); 10/100 Base-T IEEE 802.3 compliant, unique MAC address	
Approvals	FCC, RoHS3, WEEE, Industry Canada, CE, PSE, RCM, CB Scheme	
Warranty	2-year parts and labor	

WaveCAST (WF T5) with Serial Numbers starting with A and B

Dimensions	8.45” W x 8.25” D x 1.72”H (21.5 cm x 21 cm x 4.4 cm)
Weight	Transmitter: 3.0 lbs (1.36 kg)
Color	Black/Silver with silver legends on the front, white legends on the back
Rack Mount	Standard 19” Rack, one EIA rack space high, 1/2 space wide 1–2 units can be mounted in a single rack space with optional RPK 005 (single) or RPK 006 (double) Rack Mount Kits
Power Supply	Desktop Style Transformer (TFP 062); Input: 100-240 VAC, 50/60 Hz. IEC Line Cord; Output: 24 VDC, 750 mA, 18W. 2.5mm ID center positive barrel connector
Power ON Indicator	Push On/Push Off latching power button, backlit green indicates power ON, backlight off indicates power OFF, fading from bright to dark indicates Sleep Mode.

Temperature Range	Operating: +32° F to +122° F (0° C to 50° C); Storage: -4° F to +158° F (-20° C to 70° C)	
User Interface	Front panel buttons or hosted web interface	
Audio Processor Functions	DSP based; Compression: 1:1, 1.5:1 or 2:1; High-pass and Low-pass Filter Frequency control	
Frequency Response	31 – 16000 Hz, ±3 dB (“Music” Audio Preset)	
Signal-to-Noise Ratio	≥74 dB Transmitted RF	
Total Harmonic Distortion	Less than 0.25% @ 1 kHz (RF output)	
Common Mode Rejection	>57 dB @ 1 kHz, Mic or Line	
Audio Inputs	(1x) Combination 3-pin XLR, 1/4” (TRS) jack for Mic or Line Level Analog Audio, Balanced or Unbalanced Line Level, or balanced or unbalanced microphone with Selectable Phantom Power	
Audio Input Gain Adjust	In menu, adjustable to 0 to -50 dB, in 1dB steps	
Phantom Power	14.4 VDC applied through 2.2 kΩ resistors to analog combo jack: Pin 2 and Pin 3 on XLR jack, or tip and ring on 1/4” TRS jack	
Audio Level Indicators	10-LED array that reads -18 to +9 dB at 3 dB intervals. 7 Green, 2 Amber, and 1 red LED. Green LEDs indicate normal operating audio level peaks, Amber LEDs indicate close to overload peaks, Red LED indicates overload peaks	
Headphone Output	1/4” TRS stereo jack, mono signal, 15.7 mW, maximum in 33 Ω (level adjustable in menu 0 to -40 dB in 2 dB steps). Directly tied to rear 1/4”/XLR input for purpose of listening/checking incoming audio.	
Line Output	RCA jack (black), -10 dBV (.32 VRMS); Output impedance 100 Ω	
Input Levels (Bal or Unbal) (at Audio Input Gain = 0dB)	Nominal (1st Amber LED)	Overload Warning (Displayed on Screen)
Microphone	-55 dBV (1.7 mV RMS)	-15 dBV (180 mV RMS)
Line	-25 dBV (55 mV RMS)	+16 dBV (6.3 V RMS)
Ethernet	RJ-45 on back of unit supports CAT 5e cable lengths up to 328 feet (100 meters); 10/100 Base-T IEEE 802.3 compliant, unique MAC address	
Approvals	FCC, RoHS3, WEEE, Industry Canada, CE, PSE, RCM, CB Scheme	
Warranty	2-year parts and labor	

Architectural Engineering Specs

WF T5

The WF T5 shall have a 3-pin XLR 1/4" jack for audio inputs.

The WF T5 shall have a -10 dBV (.32 VRMS) black RCA jack for audio outputs.

The WF T5 shall have a 1/4" TRS stereo jack, mono signal, 15.7 mW for headphone output.

The WF T5 shall have an RJ-45 ethernet port for providing a network connection.

The WF T5 shall have a power source at 24VDC.

The WF T5 shall be housed in a 8.54"W x 8.25"D x 1.72"H device enclosure.

The WF T5 shall be enclosed in a black and silver case with silver legends on the front and white legends on the back.

The WF T5 shall be covered by a two-year parts and labor warranty.

This product shall be the Williams AV model WF T5.

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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