

# WaveCAST C

## WF T5C/WF T5CD



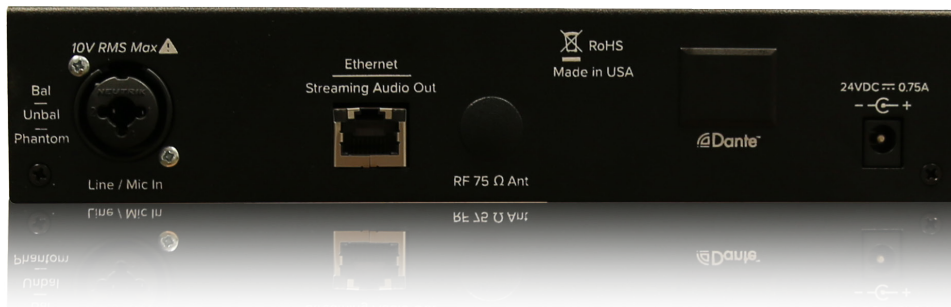
The WaveCAST C is designed to support those who want to use their own smartphones and headphones for a more discreet assistive listening experience. Simplicity is also available for those who want a more traditional assistive listening system with a dedicated Wi-Fi receiver and headset. The WaveCAST C has support for Telnet commands via an Ethernet port enabling AV professionals to control and monitor the WaveCAST C using third-party room control systems.

### WF T5C / WF T5CD

Dimensions	8.45" W x 8.25" D x 1.72"H (21.5 cm x 21 cm x 4.4 cm)
Weight	Transmitter: 3.2 lbs (1.45 kg)
Color	Black
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 with backlight. Green backlight indicates power ON, backlight off indicates power OFF.
Temperature Range	Operating: +32° F to +122° F (0° C to 50° C); Storage: -4° F to +158° F (-20° C to 70° C)
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. RJ-45 jack used for web interface and streaming audio out. An external Router/DHCP Server is required to stream audio to receiving devices.
Dante	(1x) RJ-45 jack. Only available on WF T5CD
User Interfaces	1. 3.12" High Resolution OLED display with selections via buttons, 2. Hosted Web page, 3. Telnet commands over ethernet (see our "WaveCAST and WaveCAST C Programmers Guide" for available commands and protocol).
<b>Audio Section</b>	
Audio Inputs	(1x) Combination 3-pin XLR, 1/4" (TRS) jack for balanced or unbalanced line level, or balanced or unbalanced microphone with selectable phantom power. Optional RJ-45 Dante Input ("D" models only).
Audio Processor Functions	DSP based; Compression: 1:1, 1.5:1 or 2:1; High-pass and Low-pass Filter Frequency control, Music, Voice and Hearing Assistance Audio Presets
Frequency Response	31-16000 Hz, ±3 dB (re: 1 kHz) ("Music" Audio Preset)
Signal-to-Noise Ratio	64 dB (typical) Transmitted RF @ 1kHz
Total Harmonic Distortion	Less than 0.25% @ 1 kHz (RF output)

Common Mode Rejection	>57 dB @ 1 kHz, Mic or Line mode		
Audio Input Gain Adjust	Adjustable from +24dB to -60 dB, in 1dB steps from front screen or web interface.		
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 Display	Front screen bar graph display, each segment representing 3dB. It ranges from -18 (1 segment lit) to +12dB (10 segments lit). Over-range warning is indicated by 'OVLD' and flashing empty bar.		
Headphone Output	1/4" TRS stereo jack, mono signal, 7.8mW total power with 33 Ω.		
Dante Input	(1x) RJ-45 jack, only available on WF T5CD.		
Input Level (Bal or Unbal) (at Audio Input Gain = 0dB) at 1 kHz	Nominal (@ 7th Segment Lit) Indicated by Audio Level Display	Overload Warning Indicated by Audio Level Display "OVLD"	Absolute Max. Rating Stresses above these ratings may cause permanent damage or degrade reliability.
Microphone	-45 dBV (5.6 mV RMS)	-20 dBV (100 mV RMS)	+20 dBV (10.0 V RMS)
Line	-8.4 dBV (380 mV RMS)	+16 dBV (6.5V RMS)	+20 dBV (10.0 V RMS)
Approvals	FCC, RoHS3, WEEE, Industry Canada		
Warranty	2-year parts and labor		

\*\* Stresses above these ratings may cause permanent damage. Exposure for extended periods may degrade reliability. This device complies with Industry Canada licence-exempt RSS standard(s) and FCC part 15.105[b] for the United States. Operation is subject to the following two conditions: [1] this device may not cause interference, and [2] this device must accept any interference, including interference that may cause undesired operation of the device.



## Architectural Engineering Specifications

### WF T5C / WF T5CD

#### General:

This product shall be the Williams AV model WF T5C[D].

Shall be housed in a 8.54"W x 8.25"D x 1.72"H device enclosure.

Shall be enclosed in a black and silver case with silver legends on the front and white legends on the back.

Shall be covered by a two-year parts and labor warranty.

#### Rear Panel:

Shall have a 3-pin XLR and 1/4" combo jack for audio inputs and microphone connection.

Shall have an RJ-45 Ethernet port for providing a network connection.

Shall have a 5mm barrel jack for a DC power source at 24VDC.

WF T5CD (only) shall have an RJ-45 Dante port supporting Dante streaming input.

#### Front Panel:

Shall have an OLED screen displaying current settings and menu functions. Audio input source, audio presets (Hearing Assist, Music, Voice and Custom), audio input level, high and low pass filter, and compressor gain shall be configurable via the menu or web browser. Input audio level shall be indicated by an OLED bar graph indicator.

Shall have 5 front panel momentary contact switches for menu selection and control.

Shall have a 1/4" TRS stereo jack, mono signal, 14.85 mW for headphone output.

Shall have a back lit power switch.

**NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.**