FM 558 Systems

FM 558 systems are complete turnkey solution that include both FM and Wi-Fi transmission from the same box.

The FM R38 is a multi-channel FM receiver with a high-resolution OLED screen. The receiver comes with earphones and batteries, but is otherwise identical to the PPA R38. The R38 offers a quick view of receiver status and immediate entry to all user settings. On-screen channel selection with easy access to 17 pre-set, wide-band frequencies (72-76 MHz). The system is expandable, accommodating any number of listeners. This system complies with 2010 ADA guidelines for hearing assistance all for nearly the same cost as traditional FM systems.

NOTE: The FCC requires this device to be used with approved, FCC 15.203 compliant antennas and be professionally installed. Refer to Williams AV's 72 MHz Antenna Selection Install Guide for compliant antennas for this product.

Systems

FM 558	(1) FM T55 transmitter (4) PPA R38N receivers (4) EAR 022 surround earphones (2) NKL 001 neckloops (1) IDP 008 ADA wall plaque
FM 558 PRO	(1) FM T55 transmitter (4) PPA R38N receivers (4) EAR 022 surround earphones (2) NKL 001 neckloops (2) BAT KT6 two-bay chargers and rechargeable batteries (1) ANT 005 remote coaxial antenna (1) IDP 008 ADA wall plaque (1) RPK 005 rack panel kit
FM 558 PRO D	(1) FM T55 D transmitter (4) PPA R38N receivers (4) EAR 022 surround earphones (2) NKL 001 neckloops (2) BAT KT6 two-bay chargers and rechargeable batteries (1) ANT 005 remote coaxial antenna (1) IDP 008 ADA wall plaque (1) RPK 005 rack panel kit
FM 558-12	(1) FM T55 transmitter (12) PPA R38N receivers (12) EAR 022 surround earphones (3) NKL 001 neckloops (1) IDP 008 ADA wall plaque
FM 558-12 PRO	(1) FM T55 transmitter (12) PPA R38N receivers (12) EAR 022 surround earphones (3) NKL 001 neckloops (1) CHG 3512 12-bay charger (12) BAT 026-2 AA NiMH rechargeable batteries (1) ANT 005 remote coaxial antenna (1) IDP 008 ADA wall plaque (1) RPK 005 rack panel kit
FM 558-12 PRO D	(1) FM T55 D transmitter (12) FM R38N receivers (12) EAR 022 surround earphones (3) NKL 001 neckloops (1) CHG 3512 12-bay chargers (12) BAT 026-2 AA NiMH rechargeable batteries (1) ANT 005 remote coaxial antenna (1) IDP 008 ADA wall plaque (1) RPK 005 rack panel kit
FM 558-24	(1) FM T55 transmitter (24) PPA R38N receivers (24) EAR 022 surround earphones (6) NKL 001 neckloops (1) IDP 008 ADA wall plaque
FM 558-24 PRO	(1) FM T55 transmitter (24) PPA R38N receivers (24) EAR 022 surround earphones (6) NKL 001 neckloops (2) CHG 3512 12-bay chargers (24) BAT 026-2 AA NiMH rechargeable batteries (1) ANT 005 remote coaxial antenna (1) IDP 008 ADA wall plaque (1) RPK 005 rack panel kit
FM 558-24 PRO D	(1) FM T55 D transmitter (24) PPA R38N receivers (24) EAR 022 surround earphones (6) NKL 001 neckloops (2) CHG 3512 12-bay chargers (24) BAT 026-2 AA NiMH rechargeable batteries (1) ANT 005 remote coaxial antenna (1) IDP 008 ADA wall plaque (1) RPK 005 rack panel kit

FM T55

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/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)
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
Dante	Only available on FM T55 D
User Interface	3.12” High Resolution OLED display with selections via buttons. Hosted Web page. Remote control and monitoring.
RF Section	
Operating Frequencies	72.1-75.9 MHz , 17 wideband channels (selectable)
Frequency Accuracy	± 2 ppm stability, 0-50˚ C
Deviation	± 75 kHz maximum
Pre-Emphasis	75 µsec
RF Field Strength	Does not exceed 80 mV/m at 3 m
Compatible Antennas	ANT 005, ANT 021, ANT 024, ANT 025, ANT 028, or ANT 034 *Refer to Williams AV’s **72 MHz Antenna Selection Install Guide** for FCC-compliant antennas for this product.*
Transmission Range	Up to 1000 ft (304 m) with ANT 005 coaxial antenna mounted on rear chassis connector
RF Outputs	(1x) #10-32 stud connector in center of unit (pcb mounted) (1x) F-connector on rear chassis
RF Transmit Indicator	1 Green LED On Air Indicator
RF Power	Full, Medium, Low or OFF indiacted by menu icon.
RF Time Out (sleep mode)	30 min. duration, 4 hr. duration, or Always On selected via menu. Starts when audio is below -18 dB level with no button pressed for selected duration.
Audio Section	
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, ±3 dB) (“Music” Audio Preset)
Signal-to-Noise Ratio	67 dB (typical) Transmited RF