



CD3
Video Security

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RX-5800 Information



RX-5800 5.8 GHz AV receiver. This 10-channel selectable unit is 'plug and play' compatible output to most TV sets and ALL of our VCR and DVR video recorders. DUAL standard composite audio + video outputs. Designed for use with our TX-58M & THX-58 wireless transmitters. COMPLETE technical specifications (a.k.a. "specs") below.

Profile:

The RX-2400 is a well-engineered and compact PLL (phase lock loop) FM unit. BEWARE that most 5.8 gigahertz sets you'll find are usually greatly inferior as a result of substandard engineering and very low (& often exaggerated or unknown) receiver sensitivity. Many inferior units in the marketplace can be found costing twice as much or more. It is capable of greater range when transmitter and/ or receiver are equipped with properly oriented directional (narrow beam and/ or high gain) antennas.

Receiver is ten channel audio + video selectable and is designed for use with our mating #TX-58M (modular) and #THX-58 (stationary mount LNB) transmitters.

5.8 GHz (or 5,800 MHz) can be a great frequency to use in a variety of (primarily stationary) conditions where there is a high probability for interference from 2.4GHz or other RF wireless equipment operating in close relative proximity to either transmitter or receiver- or anywhere in between. 2.4GHz frequency video can be often be problematic due to the advent of so many 2.4 gig devices. This equipment may include wireless LAN computer networking, 2.4GHz cordless telephones, alternate video transmission, operating microwave ovens and other sources.

#RX-5800 has been used for some limited mobile purposes- but is primarily designed for for stationary video. Microwave frequencies (i.e. UHF 2.4GHz or SHF 5.8GHz) tend to be more directional than can be 'quirky' in certain situations, such as when transmitter and/ or receiver are in motion or used around people or animals. Depending on power and type of antenna(s) used on transmitter and / or receiver, user may experience brief periods of no video or audio while signal re-establishes 'lock'. 900MHz can be a great alternative to consider since 'competing' devices in that frequency range are far less common. 900MHz also provides better barrier penetration and ability for movement than higher frequency devices.

It should be noted that #RX-5800 receiver and included mating LNB antenna element feature "F" type connector post mounts and comes with 2 weatherproof crimp-type F plug ends. Using a good quality low-loss cable (i.e. LMR type), there are a variety of solutions for connecting the two with both 'off-the-shelf' stock and custom options. Please contact us if you require custom length and type antenna cabling for this (including MIL-SPEC).

*However, this service is provided for our 5.8GHz wireless CUSTOMERS ONLY.

High-quality FM wireless video is amazing and may work very well for a given user application. However, it is certainly not 'magic'. Choosing the best frequency/ RF power and the most appropriate antenna(s) for the given application will greatly improve user's odds for desired success. A careful analysis of all known factors and a preparedness for certain types of potential problems which can never be fully realized until initial site trial and potential re-orientation of a system. Please read more on our wireless FAQ page.

We carry ONLY wireless equipment manufactured with quality-engineered onboard surface mount board + processor components (critical to produce a high quality wireless video unit). Too many in our industry are making false and exaggerated claims about their inferior products and about wireless video technology in general. You never have or will find such products or erroneous information on our site.

Common Applications:

- Wireless point-to-point video monitoring where multiple channels and/or audio requirements exist
- CCTV video applications which are likely to encounter (mostly 2.4GHz interference)
- General CCTV video and security purposes where installing hardwired connection is not feasible or possible
- Permanent and temporary fixed location portable surveillance
- Limited range search & rescue and canine operations

Available Options:

External LNB antenna element included FREE (F type threaded post) for direct interface to unit.

Fully regulated AC/DC transformer (wall plug-in for constant use) and 8xAA #BAT-1 battery pack included FREE with each #TX-58M ordered.

Our #ANT-58S small parabolic dish increases receiver range up to 3-4 times (1-2 miles).

Our #ANT-581M large parabolic dish increases receiver range up to 10 times (4-6 miles).

Variations / Alternate Equipment to Consider:

Also consider our 900MHz #THX-9500 with 500mW RF output power for up to 1 mile LOS line of sight range with only standard omnidirectional antenna.

Cautions:

This is a non-weatherproof transmitter, and as such- must be treated with extra care and NEVER left outdoors without the proper protective housings.

Because this unit has no built-in 'reverse polarity protection' circuitry, it MUST be powered PROPERLY and ONLY with available CD3 Video Security power accessories to guarantee SAFE operation. Using improper 'reverse power' (i.e. a power supply with center pin negative polarity) WILL DESTROY THIS UNIT. Unregulated transformers marked at "12 volts DC" are more likely producing 18-30 volts, as seen when tested with a simple DC volt meter. While over-voltage of electronic circuitry may allow operation, but may also be greatly decreasing device longevity by "over-driving" and likely overheating that circuitry, which may even result in immediate damage. Please consult our power FAQ page for more information.

Reception range and quality of wireless performance is based on a number of factors which can generally be determined only after actual testing has been made. Please consult our wireless FAQ page for MUCH more information on this subject.

As an audio-capable device, user must accept full responsibility for legal use within federal (and state or local if applicable) existing laws.

RX-5800 Technical Specifications

RF Frequency Range	5.8 GHz
# Channels	ten (10) channels for up to ten (10) simultaneous systems
Total Bandwidth	approx. 15 MHz (transmits 500+ color TV lines of resolution plus one (1) channel mono audio)
Modulation Method	consistent FM (frequency modulated)
Standard Antenna	tuned 5.8 GHz powered LNB unit (receives voltage from receiver)
BEST Line-of-Sight Range	approx. 1000 ft. with TX-58M and up to 4 miles with additional parabolic dish antennas
Signal Stability Control	phase-lock-loop (PLL) synthesized
Antenna Input Plug	female F plug
Input Voltage	12 volts (+/- 10%) DC center pin + positive
Power Consumption (milliamps)	440 mA or less
Video Output Type	Composite 1 Vp-p @ 75 ohms unbalanced
Video Output Plug	RCA (adapts easily to BNC)
Power Input Plug	2.1mm inner diam. x 5.5mm outer diam. center pin + positive
Audio Transmission?	yes, one (1) channel mono audio
Audio Output Type	line level
Audio Output Plug	RCA (adapts easily to BNC)
Operating Temperature	-20°F ~ +180° F
Operating Humidity	less than 95%
Dimensions	4.7" x 4.4" x 1.44" / 119mm x 112mm x 37mm
Weight	16oz. / 454g
Standard Antenna Dimensions	2.75" x 2.75" x 1.5" / 70mm x 70mm x 38mm
Standard Antenna Weight	7.7oz. / 217g
Warranty	one year
*Additional Features	includes free AC/DC wall transformer, and free antenna