



Jampro RCHA-323-10HD

The Jampro RCHA-323-10 HD and smaller RCHA-222-10 HD Digital FM Radio Injectors provide high levels of isolation and have properly sized inputs for analog and digital FM transmitters. It satisfies I.B.O.C. (HD Radio) standards.

The RCHA-HD series Injectors both feature Jampro's established rugged design. The effective self cooling design provides safe combining without the need for AC powered cooling fans. Jampro can provide this injector for use with station provided coax and reject load or as a complete system with all these components included for a quick, trouble free installation.

Jampro computer aided design and manufacturing techniques ensure repeatable broad band performance for each and every unit.

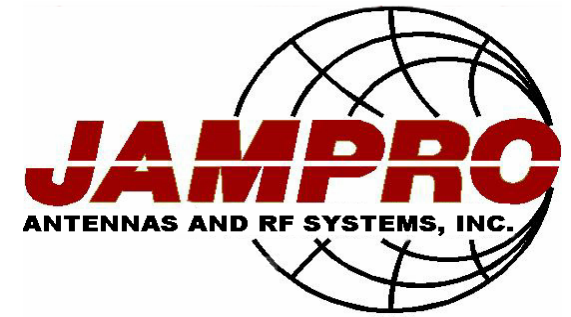
The **Jampro Dual HD FM Antenna** system provides exemplary linearity and power handling capability. The antenna is based on Jampro's 50 plus years experience of building FM and TV broadcast antennas.

The Dual HD antenna provides isolated and separate inputs for both analog and digital transmitters. This approach allows the digital transmitter to operate at its target power with NO power lost in reject loads and NO power reduction caused by 'lossy' digital injectors. There is no single point failure that can take the antenna system totally off the air.

Several other HD models are available including Dual Input Side Mount, Dual Input Panel, Space Combined Bays and Wide Band Combined arrays



JHPC-2 +JHPC-HD-1 Separate Bays



**Your Partner for
HD Radio™
Solutions**

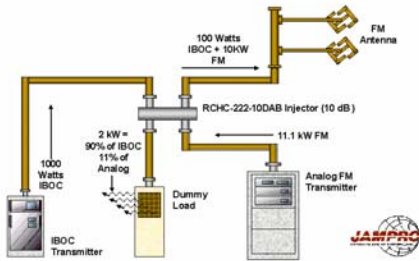


KSL - 13 Station FM Antenna

Jampro - HD Radio Steps To Success

Injector System:

Separate Amplification IBOC FM System



Applications

For All Power Level Stations
 Limited Tower Capacity
 Omni or Directional Patterns
 Single or Multiple Frequencies
 Typically Single Station

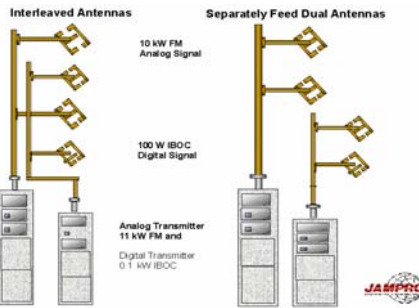
Pros

Inexpensive Hardware
 Use proven antenna
 Easy Installation
 Use existing Analog Tx.
 Low Cost intro to HD
 Increased Isolation

Cons

One Antenna for both
 Wasted energy in reject load
 Single Failure points
 High Cost of Operation
 Low efficiency
 Higher Power HD Tx.
 HVAC Concerns

Spaced Combined HD Antenna



Applications

For All Power Level Stations
 Sensitive to analog signal protection
 Tower capacity not an issue
 Medium Cost intro to HD
 Single or Multiple Frequencies
 Typically Single Station
 Omni or Directional Patterns

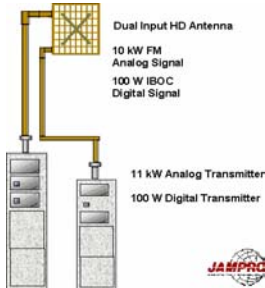
Pros

Lower Power HD Only Tx
 No Injector power loss
 Protects Analog Signal
 Redundancy HD/Analog
 Use existing Analog Tx.
 Interleaved Saves Tower Space
 Increased Isolation
 Inexpensive intro to HD

Cons

More Tower Space - Separate Bays
 Possible Elevation Pattern effects
 Expense of 2nd Xmission line
 Tower Loading for Separate Antenna
 HVAC sizing issues

Dual Input HD FM Antenna



Applications

For All Power Level Stations
 Typically Multiple Stations
 Use when HD/Analog Pattern Critical
 Back Up Redundantly
 Large Face Sized Towers
 Critical Directional Patterns

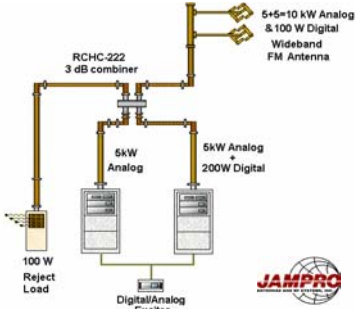
Pros

Ground up design for HD
 Predictable Performance
 Easier to do DA's
 Bandwidth/broadband
 No Injector power loss
 Use existing Analog Tx.
 Ability to add stations

Cons

Higher Cost
 Higher weight & wind load
 Larger Tower needed
 HVAC sizing issues

Medium Power Combined HD



Applications

Higher Power Levels
 Single Frequency
 Where AC costs are high
 Can't change antenna
 Can't change tower space
 TPO not available for low level combining

Pros

No Injector loss
 Use existing Analog Tx
 Lower Power Reject load
 Re use Xmission Line
 Re use FM Antenna

Cons

More costly than other choices
 More floor space
 Accurate tuning of Tx's needed
 HVAC sizing issues