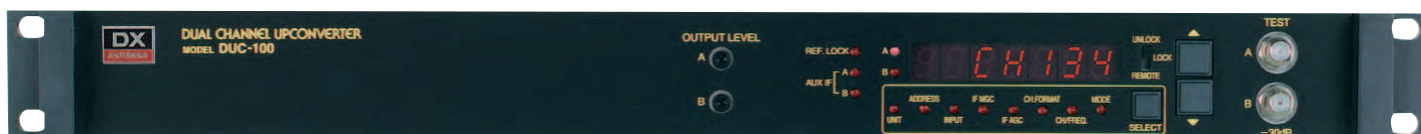


MODEL

DUC-100

DUAL CHANNEL UPCONVERTER



Vital Stats:

- Frequency agile from 54-858 MHz
- 60 dBmV output
- Internal tracking BPF provides unparalleled C/N performance
- Dual channel upconverter
- Digital channel display
- PLL frequency-synthesized tuning
- Selectable frequency tuning in 12.5 kHz increments
- Standard/HRC/IRC channel formats (selectable)
- Automatic IF sensing and switching
- Manual and remote IF switching
- Front panel test ports
- Space saving 1 3/4" low profile design
- RS-232C and I/O interfaces for remote operation
- Phase lock reference (optional)
- Convenient removable power cord

DUC-100 Dual Channel Upconverter Specifications

RF

Output Frequency Range	54~858MHz
Output Level	+ 60 dBmV
Output Impedance	75Ω, F type female
Output Level Control Range	0 dB ~-10dB (adjustable)
Frequency Stability	± 3 kHz
Spurious Rejection	≥ 60 dBc at +60mV
C/N Ratio (in band)	70 dB typical (4MHz)
Phase Noise	-70 dBc/Hz typical (at 1kHz of fset) -101 dBc/Hz typical (at 10kHz of fset) -108 dBc/Hz typical (at 20kHz of fset)
Passband Flatness	± 0.5dB (in a 6MHz bandwidth)
Converter to Converter Isolation	≥ 60 dBc

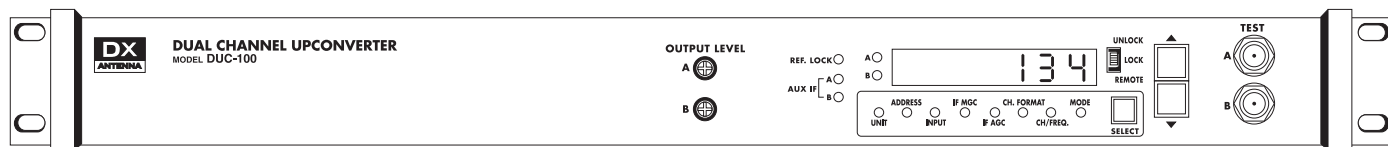
IF

Frequency Range	40.5~46.5MHz
IF Input Level	+30 dBmV ±5dB (AGC on mode)
IF Isolation	≥ 60 dBc

GENERAL

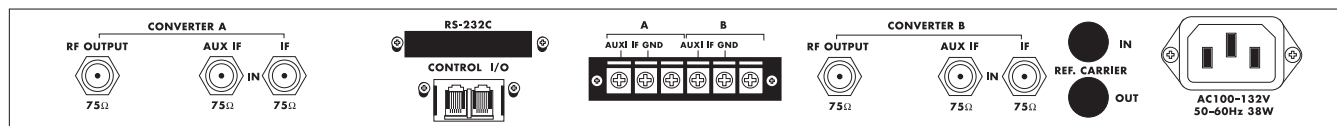
Power	100 ~132V A.C, 50/60 Hz
Power Consumption	≤ 38 W
Operating Temperature	0°C ~50 °C
Size	1 3/4" (H) X 19" (W) X 1 7/8" (D)
Weight	13.2 lbs. (6kg)

Specifications are subject to change without notice due to product improvements



Front Panel Features

- Output carrier level control
- Reference lock indicator
- Input signal indicator
- Converter A or B indicator
- Select button
- Unit indicator
- Mode indicator
- Channel/Frequency indicator
- Channel format indicator (SID/HRC/IRC)
- IF AGC indicator
- IF MC indicator
- Input indicator (manual switching or automatic sensing and switching)
- Address indicator for use with remote control operation
- Up/Down buttons
- Lock switch
- -30dB test connectors



Back Panel Features

- RF output connector converter A
- AUX IF input connector converter A
- IF input connector converter A
- RS-232 connector
- Control I/O connector
- Input signal select terminal
- RF output connector converter B
- AUX IF input connector converter B
- IF input connector converter B
- Reference carrier In/Out connector (optional)
- Removable power cord