

OTR-3550

FREQUENCY AGILE TV PROCESSOR

Features / Benefits

- Any input channel, VHF / UHF / CABLE / HRC or IRC
- Standard output channels from Ch. 2 to Ch. PPP (547.25MHz)
- Available with sub-band input and output capabilities
- BTSC stereo compatible
- High level (+60dBmV typical) spurious free output
- Excellent out-of-band carrier to noise ratio (typically >80dB)
- 60dB adjacent channel rejection with dual saw filtering
- Composite I.F. loop
- Low power consumption for reliable long term operation
- Available in four standards - NTSC, PAL B/G, PAL I & PAL D



The frequency agile **OTR-3550** offers the ultimate in flexibility. It will select any input channel from channel 2 VHF through channel 69 UHF, including all cable channels through 470MHz, and will select high level (+60dBmV) outputs on any channel from channel 2 through channel PPP (547.25MHz). All input and output channels are selectable by front panel DIP switch. The **OTR-3550** offers such features as >80dB out-of-band carrier to noise ratio, which allows unlimited numbers of the **OTR-3550** to be combined without the need for external bandpass filters. The **OTR-3550** functions automatically with BTSC stereo or monaural audio carriers.

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SPECIFICATIONS

INPUT

VHF/UHF/CABLE/HRC/IRC..... 54MHz to 801.25MHz. Selectable by front panel DIP switch in 0.25MHz increments
RF input level..... -10dBmV to +25dBmV off-air
-10dBmV to +10dBmV off-cable
Adjacent channel rejection..... >60dB

OUTPUT

Frequency range..... Any VHF channel (2-13) or Cable Channel to PPP (547.25MHz).
Selectable in 1MHz increments by front panel DIP switches
Output power level..... +60dBmV typical, 55dBmV minimum
F.C.C. offset requirements..... Front panel DIP switch selectable for +12.5KHz and +25KHz
Aural carrier level..... -12dB to -20dB below video carrier by front panel adjust
Audio intercarrier level..... 4.5MHz, ± 2 KHz
Frequency Stability/Accuracy..... $< \pm 5$ KHz of selected channel
Spurious output..... 60dB below visual carrier level
Out-of-band C/N ratio..... >80dB as measured in a 4.0MHz noise bandwidth
Video performance..... Measured @ 80% modulation
Differential Gain <10%
Differential Phase <3°
Video output 1 volt p-p (75 Ω)
Composite IF loop..... Video Carrier +40dBmV @ 45,75MHz
Aural Carrier +20dBmV to +28dBmV @ 41.25MHz
BTSC Stereo/Mono..... Functions are automatic
Power requirements..... 115 VAC @ 60Hz, 20 Watts
Size..... 1.74"H x 19"W x 8"D

MODEL OPTIONS

OTR-3550-LAN..... Offers same features as **OTR-3550**, but with Sub-Band input capabilities of T-7 through 550MHz and Sub-Band output of T-7 through 550MHz, along with HRC/IRC channels.
OTR-3550-SW..... Offers same features as **OTR-3550**, but with Sub-Band output capabilities from channel T-7 through channel PPP (547.25MHz), including all HRC/IRC channels.