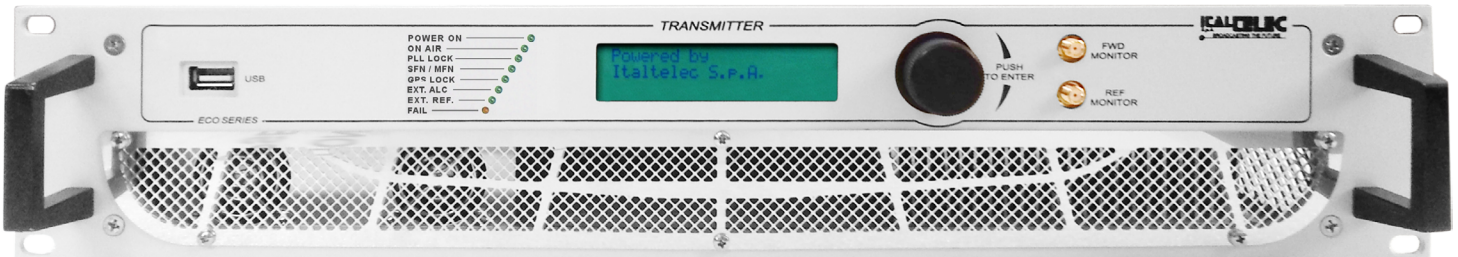


# DTV TX 25-150

Dual Cast Transmitter, Gap Filler



## Main Characteristics

- Available in all Analogue standards  
( PAL, SECAM, NTSC ) with digital processing for high performances
- Available in all Digital standards  
( DVB-T/T2, ISDB-T/Tb, ATSC )
- Available in band I - III - IV - V
- From 25Wrms to 150Wrms with LDMOS technology
- Integrated Linear & Non-Linear Adaptive Precorrector
- 2 ASI inputs with seamless and priority
- IP-to-ASI input option
- MFN or SFN networks application
- Internal GPS receiver
- Gap Filler with Hi-Efficiency Echo canceller
- Web Server, SNMP Protocol

# DTV TX 25-150

## Dual Cast Transmitter, Gap Filler

### GENERAL

Frequency Range	Band I, III, IV, V
Channel Bandwidth	6, 7, 8 MHz
RF Load Impedance	50 ohms, 1:1 VSWR over any single TV channel
RF Output Connector	N or 7/16

### AC MAINS

AC Line Voltage	2-phase 50/60 Hz, 100V to 240V
AC Line Variation	10% to -15%
Power Factor	> 0.97
Power consumption	641.2VA @max output COFDM

### ENVIRONMENTAL

Altitude	Up to 4,000m above sea level
Ambient Temperature	14° to 113° F (-10° to 45° C) at sea level
Humidity	Up to 95%, non-condensing
Cooling Method	Forced Air
Acoustic Noise	< 65 dBA (measured 1m in front of cabinet)

### ANALOG

Tv Standards	B/G/D/K/K1/M/N
Colour Systems	PAL, NTSC
Video Input Interfaces	2 BNC 75Ω, 1Vpp±6 dB.
Modulation Depth	5±15 %
Audio Input Interfaces	2 XLR 600Ω/5 KΩ, balanced / unbalanced, 0dBm -6dB +21dB
Audio encoder mode	Mono/Stereo/Dual Sound
Fm Deviation	Up to 100 KHz (200 KHz for standard M), Hard Limiter 1KHz step
Power Output	up to 600Wps
Output Power Reduction	0 to -10dB

### ECHO CANCELLER (optional)

Cancellation Level	30dB
Maximum Echo Level	+ 15dBc (Over the main signal)
RF Sample Level	0dBm for transposer nominal power

### MECHANICAL

Dimensions (WxHxD)	Weight (approx.)
mm 484x90x550	Kg 19

### COFDM: DVB-T/T2, ISDB-T/Tb (SBTVD)

Systems	ISDB-T, ISDB-Tb, DVB-T, DVB-T2
Digital Inputs	ISDB-T/Tb: 3 BNC 75Ω ASI (Hierarchical up to 3 Layers) DVB-T/T2: 2 BNC 75 Ω, DVB-ASI (Hierarchical) IP-To-ASI: RJ45
Crest Factor	Maximum 13 dB
Shoulder Level	> 40dB
MER	> 37dB
Harmonics (before filter)	< -40dB
Central Carrier Suppression	> 75dB
Frequency Stability (without ext. ref.)	± 150 Hz/month
Frequency Offsets	1 Hz resolution
MPEG packet length	188/204 byte packets, continuous and burst
Network Operations	MFN, SFN
Optional Output filter (NCM) with insertion loss	0.3 dB @ F.C. 0.7 dB @ F.C. ± 3.8 MHz
Power Output	up to 150Wrms
Output Power Reduction	0 to -10 dB

### 8-VSB: ATSC

System	ATSC A-53, 8-VSB DTV standard
Digital Input	2 BNC 75 Ω ASI (SMPTE 310M)
Internal Precise Frequency input	10 MHz (I)
Internal Gps Receiver	Optional
Phase Noise	< 104 dBc/Hz @ 20 kHz offset (ATSC A/64)
Pilot Frequency Stability	Less than ±150 Hz/month Less than ±3 Hz with internal or external PFC
Harmonic Radiation and Spurious	Meets mask requirements specified in FCC 5th and 6th report and order
Sideband Performance	Compliant with FCC radiation mask, when measured at the output of optional output filter
Optional output filter with insertion loss	0,3 dB @ F.C. 0,5 dB @ F.C. ± 2,7 Mhz
Power Output	up to 225Wrms
Output Power Reduction	0 to -10 dB