



DIGITAL BROADCAST

KE / KV STL Series

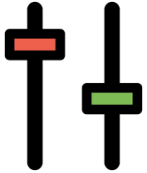


The KE and KV analog STL Series are the best audio quality links for contribution and/or distribution broadcasting networks.

Rugged and reliable, this line matches the experience of DB in STL and the need for an easy-to-use product.

The front panel interface, in fact, is suitable for an immediate check of the performances at glance, ideal also for non-technical people who need to send the audio signal from studio to the transmission site.





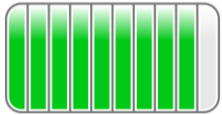
## SINTHEZIZED

Synthesized from 48 to 1020 MHz ( /1B, /FM, /3B, /4B, /5B, /GHz models). The transmitted and received frequency can be easily set by internal dip-switches.



## SUITABLE FOR DIGITAL AUDIO

The subsonic over-modulation and the low frequency phase distortion are controlled by a feedback circuit in order to exalt the audio quality of the latest digital studio equipment.



## FULL METERING

Complete diagnostic and measurement front panel displays are available.



## HIGH SENSITIVITY

It allows to reduce the STL's antennas investment.



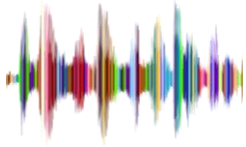
## LOW THD DISTORTION

The THD value with stereo or mono demodulated signals is negligible.



## HIGH FREQUENCY STABILITY

High frequency stability with the internal temperature compensated crystal reference.



## EXCELLENT STEREO SEPARATION

A built-in group delay and amplitude pre-corrector guarantees a very low phase distortion and a great stereo separation in the whole audio band.



## LOW NOISE

The excellent signal to noise ratio either in mono or in stereo assures the perfect use of this STL in multi-hops networks without decreasing the audio quality.



## HIGH ADJACENT CHANNEL REJECTION

Obtained thanks to the excellent mechanical shielding and the precision of RF channel filtering.



## GREAT RF IMMUNITY

Great RF immunity allows to operate in most hostile RF environments.

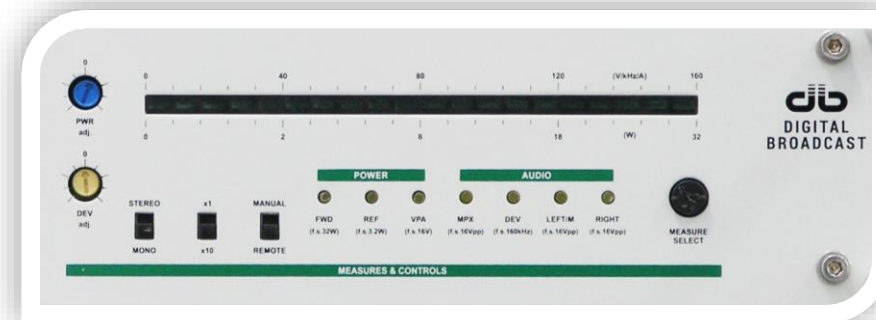


## MEETS OR EXCEEDS

Meets or exceeds all FCC and CCIR requirements.



Frequency Range:	
• KE/1B, KV/1B	48-80 MHz
• KV/FM	80-108 MHz
• KE/3B, KV/3B	160-300 MHz
• KE/4B, KV/4B	300-512 MHz
• KE/5B, KV/5B	512-830 MHz
• KE/G, KV/G	830-1020 MHz



General specifications:	
Composite Frequency response	$\pm 0.1$ dB typ. from 16 Hz to 53 kHz, 0.5 dB up to 100 kHz
Mono Frequency response	$\pm 0.5$ dB from 20 Hz to 15 kHz
Stereo separation	$\geq 58$ dB (from 15 Hz to 15 kHz)
Stereo cross talk	$\geq 55$ dB
Signal to Noise Ratio (mono) (-50 dBm received)	$\geq 72$ dB with 75 kHz dev. deemphasized
Signal to Noise Ratio (stereo) (-50 dBm received)	$\geq 68$ dB with 75 kHz dev. deemphasized
THD (stereo)	$< 0.1$ %
THD (mono)	$< 0.1$ %
IMD (two tone $\Delta F = 1$ kHz)	$D2 \leq 0.09\%$ , $D3 \leq 0.06\%$ (from 15 Hz to 15 kHz)

# TRANSMITTER SPECIFICATIONS



Output power (continuously adjustable from 0W to nominal power):	
• KE/1B	15 W
• KE/FM	30 W
• KE/3B	15 W
• KE/4B	15 W
• KE/5B	15 W
• KE/G	8 W (25 W on request)



Technical specifications	
Input connectors	XLR, 600 Ω for mono or stereo (Left&Right) BNC, 10kΩ for MPX
Output connector	N female, 50 Ω
Modulation	FM
Pre-emphasis	0 / 50 / 75 μs
Spurious and harmonic suppression	Exceeds CCIR/FCC requirements
Synchronous AM S/N Ratio	≤ -60 dBc with dev. ±75 kHz
Asynchronous AM S/N Ratio	≤ -70 dBc respect to 100% AM mod.
Capability	1 mono/stereo program, up to 3 SCA (optional)
Metering	Output level, peak modulation, diagnostic functions
Frequency setting	Internal dip-switches.
Dimensions	Depth 483 mm (19") x 2 U (standard rack unit)



Monoaural Sensitivity	8 $\mu$ V for S/N 52 dB, 16 $\mu$ V/60 dB, 200 $\mu$ V/70 dB, 1 mV/78 dB
Composite Sensitivity	8 $\mu$ V for S/N 40 dB, 16 $\mu$ V/42 dB, 150 $\mu$ V/60 dB, 1 mV/72 dB
Noise figure	(RF in = 2mV) < 8 KTo
Selectivity	$\pm$ 160 kHz at -3 dB IF BW, $\pm$ 500 kHz at -78 dB IF BW
Metering	RF input level, peak modulation
Frequency setting	internal dip-switches
RF input	N female, 50 $\Omega$
Image rejection	> 68 dB
Squelch threshold	Adjustable from 8 Mv
Outputs	composite, monoaural, IF 10.7 MHz
Dimensions	depth 483 mm (19") x 2 U (standard rack unit)





AC power requirements	
AC input voltage	115 / 230 VAC ± 15%, single phase
AC supply frequency	50 Hz or 60 Hz, ±5%



Environment	
Cooling	Forced air
Service	Continuous 24/24h
Operating temperature	-5°C to +45°C Derate 3°C per 500mt above 2000mt asl
Relative humidity	Up to 95%







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