

Classic Line FM30, FM150, FM300, & FM600

- 5-Year Warranty, best in the industry
- Best-in-Class Reliability, Efficiency, & Service & Support
- Optional Built-in Audio Processor for Transmitter Applications
- Optional Built-in DSP Based Receiver for Translator Applications



The Crown Classic line is a high-quality, robust, reliable FM transmitter system designed for years of 24/7 trouble-free. Many of our units are sent back for repair for the 1st time after 20 plus years of continuous service and often because of lightning or power surges, not product failure.

The Classic Line is available in models from 30 watts to 600 watts in three configurations. The E model (suffix not to be confused with the Ecreso E-Series) is the basic exciter with composite input only. The T model includes a built-in audio processor and stereo generator allowing it to operate as a "suitcase" transmitter in a box. The R model is the original "Translator" which utilizes a DSP that incorporates advanced algorithms to provide world-class receiver performance. Tuner parameters have been optimized by experts in FM reception to provide the best overall performance, eliminating the need for adjustments.

Reliable operation is still the major design criterion in all Crown Broadcast products. Our classic units function with less wear and improved life span. A high-quality switching power supply for superior operation runs cooler and weighs less than a few years ago.

Classic FM30, FM150, FM300 and FM600 watt

т в	05 400 T (T
	87 to 108mHz (Japanese frequency available 74 to 90mHz)
Frequency Setting	
RF-Output	
	2.0:1 Maximum with automatic fold-back at higher VSWR
Frequency Stability	
	Direct frequency modulation of carrier (typical +/-200Hz)
Modulation Indication	
FM S/N Radio (FM noise)	
	Better than 50dB referenced to 100 modulation @ 100Hz de-emphasis
	Better than 50dB with 100% modulation (typical >60dB)
RF Harmonics/Spurious Products	
RF bandwidth	+/-120 kHz, better than –25dB, +/-240 kHz better than –35dB
Temperature Range	0 to 50 degrees C
Humidity Range	0 to 80% @ 20 degrees C (noncondensing)
Maximum Altitude	10,000 ft (3,000m)
AC Power	100 to 120 or 220 to 240 AC +/-10%, 50 to 60Hz
Power Factor	
	36 to 72VDC (FM30/48VDC, 150/60VDC, 300/72VDC)
Power consumption 30, 150, 300 and 600	
Regulatory Notification for FCC part 73 and 74	
RF output connector	
Chassis Dimensions FM30, FM150 and FM300	5.3 x 16.5 x 17.5 inches (13.4 x 41.9 x 44.5 cm)
	12.75 x 23.5 x 24.5 inches (32.38 x 59.69 x 62.2cm)
Weight FM30, 150, 300 and FM600	·
Heat output FM30, 150, 300 and 600	
Warranty	
vv al 1 anty	5-1 cars best in the mausity
Wide Band composite operation	
- Composite Inputs	
- Composite Inputs Composite Input level	3.8 Vp-p for +/-75KHz deviation
- Composite Inputs Composite Input level Composite total harmonic	3.8 Vp-p for +/-75KHz deviation < 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)
- Composite Inputs Composite Input level Composite total harmonic	3.8 Vp-p for +/-75KHz deviation < 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical) 3
- Composite Inputs Composite Input level Composite total harmonic Sub-carrier inputs	3.8 Vp-p for +/-75KHz deviation < 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical) 3 3.8 Vp-p for +/-7.5KHz deviation
- Composite Inputs Composite Input level Composite total harmonic	3.8 Vp-p for +/-75KHz deviation < 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical) 3 3.8 Vp-p for +/-7.5KHz deviation
- Composite Inputs Composite Input level Composite total harmonic Sub-carrier inputs	3.8 Vp-p for +/-75KHz deviation < 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical) 3 3.8 Vp-p for +/-7.5KHz deviation +/-0.3 dB, 40Hz to 100KHz
Composite Inputs Composite Input level Composite total harmonic Sub-carrier inputs Sub-carrier input level Sub-carrier amplitude response Monaural operation w/ built in Audio Pro	3.8 Vp-p for +/-75KHz deviation < 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical) 3 3.8 Vp-p for +/-7.5KHz deviation +/-0.3 dB, 40Hz to 100KHz
Composite Inputs Composite Input level Composite total harmonic Sub-carrier inputs Sub-carrier input level Sub-carrier amplitude response Monaural operation w/ built in Audio Pro Audio Input impedance	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz ocessor50 Kohms bridging, balanced, optional 600 ohm
- Composite Inputs Composite Input level Composite total harmonic Sub-carrier inputs Sub-carrier input level Sub-carrier amplitude response Monaural operation w/ built in Audio Pro - Audio Input impedance	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz cessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviation
- Composite Inputs	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz cessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHz
- Composite Inputs Composite Input level Composite total harmonic Sub-carrier inputs Sub-carrier input level Sub-carrier amplitude response Monaural operation w/ built in Audio Pro - Audio Input impedance	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz cessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHz
- Composite Inputs	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz DCESSOT50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat
Composite Inputs	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz DCESSOT50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat
Composite Inputs	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz DCESSOT50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat SSOR and Stereo Generator50 Kohms bridging, balanced, optional 600 ohm
- Composite Inputs	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz ocessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat ssor and Stereo Generator50 Kohms bridging, balanced, optional 600 ohm50 Kohms bridging, balanced, optional 600 ohm
- Composite Inputs	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz ocessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat ssor and Stereo Generator50 Kohms bridging, balanced, optional 600 ohm50 Kohms bridging, balanced, optional 600 ohm
- Composite Inputs	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz cessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat ssor and Stereo Generator50 Kohms bridging, balanced, optional 600 ohm10 dBm to +10 dBm selectable for 75KHz deviation @400Hz10.3 dB, 50Hz to 10KHz, +/-1.0dB, 10Hz to 15KHZ0.4% or less @ 15KHz (0.2 typical)
- Composite Input level	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz cessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviation Conforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat ssor and Stereo Generator50 Kohms bridging, balanced, optional 600 ohm10 dBm to +10 dBm selectable for 75KHz deviation @400Hz+/-0.3 dB, 50Hz to 10KHz, +/-1.0dB, 10Hz to 15KHZ
- Composite Input level	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz cessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviationConforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat ssor and Stereo Generator50 Kohms bridging, balanced, optional 600 ohm10 dBm to +10 dBm selectable for 75KHz deviation @400Hz+/-0.3 dB, 50Hz to 10KHz, +/-1.0dB, 10Hz to 15KHZ4% or less @ 15KHz (0.2 typical)Better than 40 dB, 50Hz to 15KHzMain to sub and sub to main, -40 dB or better, 50 Hz to 15 KHz
- Composite Input level	3.8 Vp-p for +/-75KHz deviation< 0.05%, 50Hz to 15 Hz distortion + noise (0.03 typical)33.8 Vp-p for +/-7.5KHz deviation+/-0.3 dB, 40Hz to 100KHz cessor50 Kohms bridging, balanced, optional 600 ohm3.8 Vp-p for +/-75KHz deviation Conforms to 75uS pre-emphasis curve for +/-0.25 dB, 50Hz to 15KHzSelectable 50, 75 uS or flat ssor and Stereo Generator50 Kohms bridging, balanced, optional 600 ohm10 dBm to +10 dBm selectable for 75KHz deviation @400Hz+/-0.3 dB, 50Hz to 10KHz, +/-1.0dB, 10Hz to 15KHZ+/-0.3 dB, 50Hz to 10KHz, +/-1.0dB, 10Hz to 15KHZ/-0.4% or less @ 15KHz (0.2 typical)Better than 40 dB, 50Hz to 15KHzMain to sub and sub to main, -40 dB or better, 50 Hz to 15 KHz>60dB