

Time Code Generator

The **Time Code Generator** option for the GMR Series generates SMPTE or IRIG-B time codes, as well as IRIG-A and IRIG-E waveforms. The TCG option is software controlled and locks to GPS satellites, Time Code Reader, NTP Client, and/or High-Stability Oscillator.

	SMPTE 12M	IRIG-B0 (DCLS, PWM)	IRIG-B1 (AM)	IRIG-A (DCLS)	IRIG-A (AM)	IRIG-E (DCLS)	IRIG-E (AM)	
Rate	24, 25, 30 fps NDF and 29.97 DF	1kHz, 1mS	1kHz, 1mS	10kHz, 0.1mS	10kHz, 0.1mS	100Hz, 10mS	100Hz, 10mS	
Output Level @ 50 Ω	4 Vpp (16 dBm)	5 Vp (25 dBm)	5 Vpp (18 dBm)	5 Vp (25 dBm)	5 Vpp (18 dBm)	5 Vp (25 dBm)	5 Vpp (18 dBm5)	
Mark to Space Ratio	N/A	N/A	3.3:1	N/A	3.3:1	N/A	3.3:1	
Gain	1	1	1	1	1	1	1	
Number of Inputs (SE: Single Ended - Unbalanced, Differential - Balanced)	1 SE, 1 DIFF	1 SE, 1 DIFF	1 SE, 1 DIFF	1 SE, 1 DIFF	1 SE, 1 DIFF	1 SE, 1 DIFF	1 SE, 1 DIFF	
Type	NDF	DCLS	AM 1kHz	DCLS	AM 10kHz	DCLS	AM 100Hz	
Encoding	None, Leitch Date, SMPTE 309M	None or IEEE 1344 year or IRIG STD 200-04						
IRIG Coded Expression IRIG STD 200-04	0 BCD _{TOY} , CF, SBS	N/A	B000	B120	A000	A130	E000	E110
	1 BCD _{TOY} , CF	N/A	B001	B121	A001	A131	E001	E111
	2 BCD _{TOY}	N/A	B002	B122	A002	A132	E002	E112
	3 BCD _{TOY} , SBS	N/A	B003	B123	A003	A133	E003	E113
	4 BCD _{TOY} , BCD _{YEAR} , CF, SBS (IEEE-1344 - 1995 Encoding)	N/A	B004	B124	A004	A134	E004	E114
	5 BCD _{TOY} , BCD _{YEAR} , CF	N/A	B005	B125	A005	A135	E005	E115
	6 BCD _{TOY} , BCD _{YEAR}	N/A	B006	B126	A006	A136	E006	E116
	7 BCD _{TOY} , BCD _{YEAR} , SBS	N/A	B007	B127	A007	A137	E007	E117