

### Time Code Reader

The **Time Code Reader** option for the GMR Series automatically detects and locks to incoming time code using an automatic gain control circuit, reading and synchronizing to SMPTE or IRIG-B time code, as well as IRIG-A and IRIG-E waveforms.

	SMPTE 12M	IRIG-B0 (DCLS, PWM)	IRIG-B1 (AM)	IRIG-A (DCLS)	IRIG-A (AM)	IRIG-E (DCLS)	IRIG-E (AM)	
<b>Rate</b>	24, 25, 30 fps NDF and 29.97 DF	1kHz, 1mS	1kHz, 1mS	10kHz, 0.1mS	10kHz, 0.1mS	100Hz, 10mS	100Hz, 10mS	
<b>Input Level Range</b>	0.2-18 Vpp (2 Vpp <sub>nom</sub> )	0.5-12 Vp (5Vpp <sub>nom</sub> )	0.5-8 Vpp (5 Vpp <sub>nom</sub> )	0.5-12 Vp (5 Vp <sub>nom</sub> )	0.5-8 Vpp (5 Vpp <sub>nom</sub> )	0.5-12 Vp (5 Vp <sub>nom</sub> )	0.5-8 Vpp (5 Vpp <sub>nom</sub> )	
<b>Input Impedance kΩ</b>	>10 kΩ			>10 kΩ				
<b>Mark to Space Ratio</b>	N/A	N/A	3.3:1	N/A	3.3:1	N/A	3.3:1	
<b>Automatic Gain Adjust</b>	Over input level range							
<b>Number of Inputs (SE: Single Ended - Unbalanced, Differential - Balanced)</b>	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	
<b>Type</b>	NDF	DCLS	AM 1kHz	DCLS	AM 10kHz	DCLS	AM 100Hz	
<b>Encoding</b>	None, Leitch Date, SMPTE 309M	None or IEEE 1344 year or IRIG STD 200-04						
<b>IRIG Coded Expression IRIG STD 200-04</b>	0 BCD <sub>TOY</sub> , CF, SBS	N/A	B000	B120	A000	A130	E000	E110
	1 BCD <sub>TOY</sub> , CF	N/A	B001	B121	A001	A131	E001	E111
	2 BCD <sub>TOY</sub>	N/A	B002	B122	A002	A132	E002	E112
	3 BCD <sub>TOY</sub> , SBS	N/A	B003	B123	A003	A133	E003	E113
	4 BCD <sub>TOY</sub> , BCD <sub>YEAR</sub> , CF, SBS (IEEE-1344 - 1995 Encoding)	N/A	B004	B124	A004	A134	E004	E114
	5 BCD <sub>TOY</sub> , BCD <sub>YEAR</sub> , CF	N/A	B005	B125	A005	A135	E005	E115
	6 BCD <sub>TOY</sub> , BCD <sub>YEAR</sub>	N/A	B006	B126	A006	A136	E006	E116
	7 BCD <sub>TOY</sub> , BCD <sub>YEAR</sub> , SBS	N/A	B007	B127	A007	A137	E007	E117

**MASTERCLOCK, INC.**

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