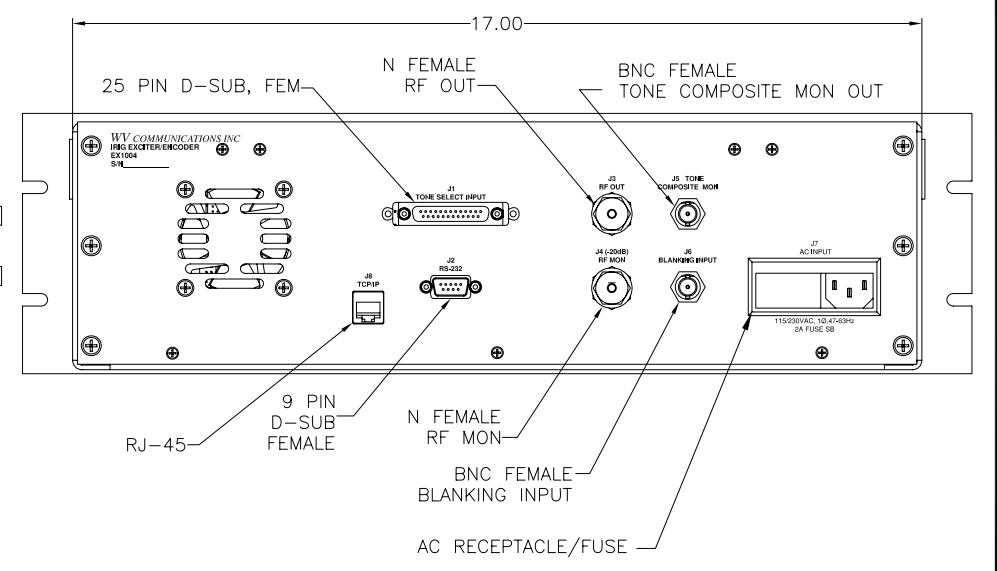
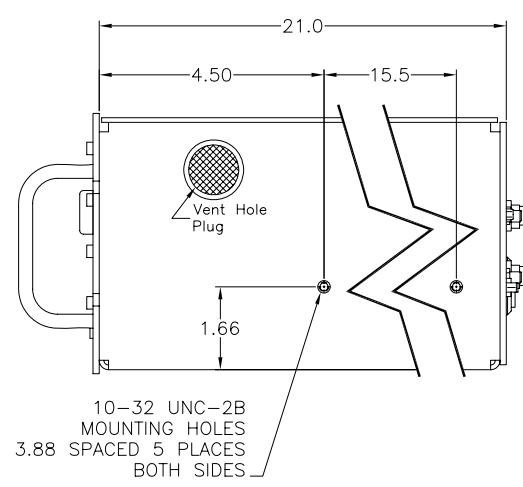
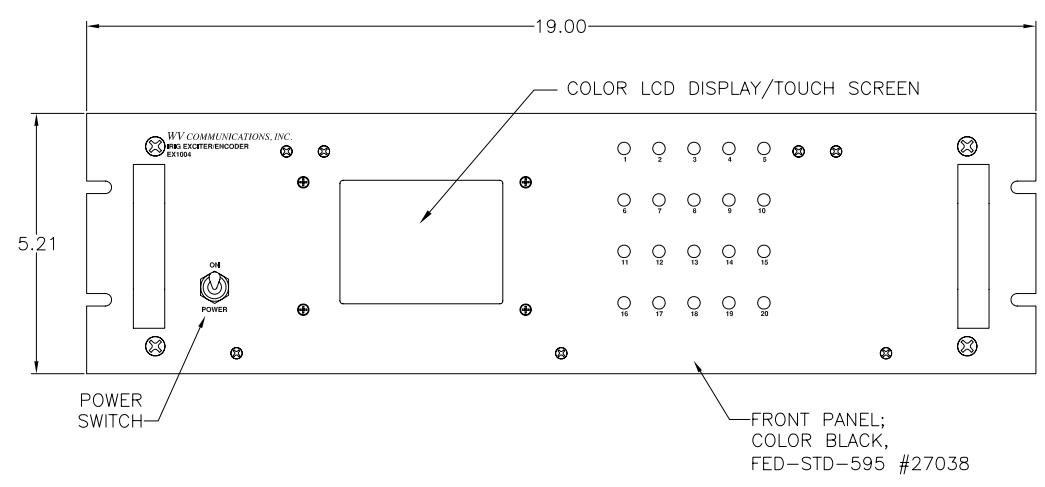


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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	31OCT06	T.T.



- ENCODER**
NUMBER OF IRIG TONES: 20 Tones
TONE FREQUENCY STABILITY: 0.01% Maximum
TONE ACTIVATION INPUT: LOCAL- TTL-'0' to activate
 or Via RS-232 UDP/IP PACKET Commands
OUTPUT AMPLITUDE VARIATION: Less than 15%
OUTPUT DISTORTION: Less than 1% with any Tone Enabled
TONE MONITOR OUTPUT IMPEDANCE: 50 Ohm Nominal
TONE OUTPUT SIGNAL DELAY: 5mSec Maximum from Application of Tone Command to Stable Output within 0.01%
 Frequency Stable within 0.1% after 1 second
TURN ON STABILITY: Frequency Stable within 0.1% after 1 second
TONE FREQUENCIES: Standard IRIG Tones See Table
LED TONE MONITOR: Front Panel LEDs indicate active Tone
LOCAL TONE ACTIVATION: Via Front Panel Color LCD Touchscreen
REMOTE TONE ACTIVATION: Via RS-232 or UDP/IP Interface rear Panel J8 Conn
- EXCITER**
CARRIER FREQUENCY: 370.0 to 450.0MHz
CARRIER FREQUENCY STEPS: 100.0 KHz Steps
FREQUENCY SELECTION: Via Front Panel / Remote RS-232 or UDP/IP
 Within ±0.001% maximum
CARRIER STABILITY: Within ±0.001% maximum
OUTPUT POWER RANGE: -5 to +10dBm in 0.5dB Steps
POWER SELECTION: Via Front Panel / Remote UDP/IP
BLANKING INPUT: TTL-'1' Blanking ON (RF=OFF)
 TTL-'0' (Open) Blanking OFF (RF=ON)
 ±0.5dB Maximum over 5-75KHz
FM MODULATION RESPONSE: 30 KHz per Tone Nominal
DEVIATION LEVEL: Set for Deviation of 30 KHz / Tone Selectable via Front Panel or Remote RS-232 or UDP/IP Interface
DEVIATION ADJUST:
TEMPERATURE: Operating: 0 to +50C
INPUT POWER: 115/230VAC Auto Switch at 2.0 Amps Max Single Phase 47-63Hz
FRONT PANEL COLOR: BLACK FED-STD-595 #27038

TONE	IRIG FREQUENCY (KHz)	TONE	IRIG FREQUENCY (KHz)
1	7.50	11	25.01
2	8.46	12	28.21
3	9.54	13	31.83
4	10.76	14	35.90
5	12.14	15	40.49
6	13.70	16	45.68
7	15.45	17	51.52
8	17.43	18	58.12
9	19.66	19	65.56
10	22.17	20	73.95

PIN NO.	TONE/ INPUT	PIN NO.	TONE/ INPUT	PIN NO.	TONE/ INPUT
1	1	11	11	21	N/C
2	2	12	12	22	N/C
3	3	13	13	23	N/C
4	4	14	14	24	N/C
5	5	15	15	25	GND
6	6	16	16		
7	7	17	17		
8	8	18	18		
9	9	19	19		
10	10	20	20		

PIN NO.	PIN NAME
1	N/C
2	RX
3	TX
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C

PIN NO.	PIN NAME
1	TX+
2	TX-
3	RX+
4	N/C
5	N/C
6	RX-
7	N/C
8	N/C

TONE ON= TTL '0' SHORT TO GND
 TONE OFF= TTL '1' OPEN

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES HOLES
 ± 1/64 .XX±.01 ±0°30' .XX±.005
 .XXX±.005 .XXX±.003
 MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX
 MATERIAL
 FINISH
 DO NOT SCALE DRAWING

APPROVALS	DATE
DRAWN G. GODDARD	31OCT05
CHECKED T.T.	31OCT05
MECH ENGR G.G.	31OCT05
ELEC ENGR J.T.	31OCT05
PRODUCTION A.M.	31OCT05
Q.A. D.B.	31OCT05

WV Communications 1176 Tourmaline Dr. Newbury Park, CA

EXCITER/ENCODER IRIG
20 TONE 370-450 MHz 100.0 KHz STEPS
MODEL EX1004

SIZE C	CAGE CODE 1GFQ7	DWG. NO. 050-50564	REV A
SCALE NONE	SHEET 1 OF 1		

900-50190	VARIOUS
NEXT ASSEMBLY	USED ON
APPLICATION	DO NOT SCALE DRAWING

DWG NO. 050-50564
 REV A
 DC-FOBL-0015-3, REV C, 06/08