

NOTES:

1. MATERIALS:
HOUSING - BLACK ANODIZED ALUMINUM
COMPONENT END PANELS - BLACK ANODIZED ALUMINUM
CORNER GUARDS - PVC, BLACK
2. LASER ETCHED WHITE TEXT AND ARTWORK.
3. POWER REQUIREMENTS FOR PHANTOM LIFT FEATURE:
44-52 VOLTS (DC) PHANTOM POWER (P48)
4. THIS PRODUCT IS RoHS COMPLIANT.

CONTROLS:

INPUT:

1/4" (6.3mm) MONO PHONE JACK. ACCEPTS SIGNALS FROM INSTRUMENTS.

THRU:

1/4" (6.3mm) MONO PHONE JACK. WIRED IN PARALLEL WITH INPUT.

-20dB PAD:

TOGGLE SWITCH. REDUCES INPUT SIGNAL LEVEL AN ADDITIONAL 20dB FOR LINE LEVEL SIGNALS.

MIC OUTPUT:

3 PIN MALE XLR. PROVIDES BALANCED, LOW IMPEDANCE MIC LEVEL OUTPUT. WIRED PIN-1 GROUND, PIN-2 HOT, PIN-3 COLD.

GROUND LIFT MODE:

RECESSED SLIDE SWITCH. USE TO SELECT WHICH FORM OF GROUND CONTROL TO USE.

MANUAL MODE - ENABLES CONTROL OF THE GROUND LIFT FROM THE DI USING THE TOGGLE SWITCH.

48V MODE - ENABLES REMOTE CONTROL OF THE GROUND LIFT FROM THE CONSOLE USING 48 VOLT PHANTOM POWER.

PHANTOM POWER **OFF**: XLR PIN-1 GROUND
PHANTOM POWER **ON**: XLR PIN-1 LIFTED

LIFT/GND:

TOGGLE SWITCH. FUNCTIONAL ONLY WHEN IN **MANUAL** GROUND LIFT MODE.

LIFT PIN1: XLR PIN-1 LIFTED
GND: XLR PIN-1 GROUND

LED:

ILLUMINATES BLUE (INDICATING XLR PIN-1 IS LIFTED) WHEN PHANTOM POWER IS ENGAGED. FUNCTIONAL ONLY WHEN IN 48V MODE.

CUSTOMER DRAWING

					<div>UNLESS OTHERWISE SPECIFIED</div> <div>1. ALL DIMENSIONS IN INCHES</div> <div>- TWO PLACE DECIMALS ±0.02</div> <div>- THREE PLACE DECIMALS ±0.005</div>	THIS DRAWING DESCRIBES A DESIGN CONSIDERED PROPRIETARY IN NATURE, DEVELOPED AND MANUFACTURED BY SWITCHCRAFT INC. AND IS RELEASED ON A CONFIDENTIAL BASIS FOR IDENTIFICATION PURPOSES ONLY.							
						SIZE	WIDTH		MULT	LBS/M	TEMPER		
						FINISH SPEC No.					MATERIAL SPEC No.		
						FIRST USED ON			SCALE 1:1		<div>Switchcraft®</div>		
C	28564	2/13/23	TJK	TJK		DATE DRAWN	BY	CHKD	APVD				
B	27673	5-1-16	TO	TJK		12-6-10	BHM	JEB	TJK				
A	26785	06-09-11	JEB	TJK				11-20-12	11-20-12		SHEET 1 OF 3		
REV	ECO NUMBER	DATE	BY	APVD		NAME INSTRUMENT DIRECT BOX WITH PHANTOM LIFT, RoHS					PART No.	REV	
REVISIONS						DO NOT SCALE DRAWING						SC900CT	C

SC900CT Instrument Direct Box


Audio Specifications

Switchcraft®

Parameter	Performance	Conditions
Frequency Response	20Hz - 20kHz	+/-0.3dB, ref 1kHz
Total Harmonic Distortion + Noise	< 0.008% < 0.3%	at 1kHz, +4dBu Input, 22kHz Bandwidth at 20Hz, +4dBu Input, 22kHz Bandwidth
Maximum Input Level	+19dBu	at 20Hz with 1% THD+Noise
Input Impedance	> 110k Ω	at 1kHz
Output Impedance	< 20 Ω	at 1kHz
Common Mode Rejection Ratio (CMRR)	> 90dB > 80dB	at 60Hz, Lifted at 60Hz, Grounded
Deviation from Linear Phase	< 4° < 1° < 9°	at 20Hz at 1kHz at 20kHz
Voltage Gain	-22dB -42dB	+/-1dB +/-1dB with 20dB pad engaged
Pad Attenuation	20dB	+/-1dB

Notes: All measurements were taken with a 25 Ω unbalanced source and measured from the XLR with a 1k Ω balanced load.
Specifications subject to change without notice.

CUSTOMER DRAWING

SCALE 1:1			
DATE DRAWN 12-6-10			
DRAWN BY BHM	PART No. SC900CT	SHEET 2 OF 3	REV C

