



- NOTES:**
1. ALL DIMENSIONS FOR REFERENCE ONLY.
 2. MATERIALS: HOUSING, END, AND COMPONENT PANELS ARE BLACK ANODIZED ALUMINUM.
 3. LASER ETCHED WHITE TEXT AND ARTWORK.
 4. POWER REQUIREMENTS FOR PHANTOM LIFT FEATURE: 44-52 VOLTS (DC) PHANTOM POWER (P48)
 5. 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 GROUNDED
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 GROUNDED
- LED:**
ILLUMINATES BLUE (INDICATING XLR PIN-1 IS LIFTED) WHEN PHANTOM POWER IS ENGAGED. FUNCTIONAL ONLY WHEN IN 48V MODE.

					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	
					DATE DRAWN	BY	CHKD	APVD	
					12-6-10	BHM	JEB	TJK	
							11-20-12	11-20-12	
					NAME			PART No.	
					INSTRUMENT DIRECT BOX WITH PHANTOM LIFT			SC900CT	
					REV			REV	
					A			A	

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	Switchcraft®		
DATE DRAWN 12-6-10			
DRAWN BY BHM	PART No. SC900CT	SHEET 2 OF 3	REV A

