



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.

CUSTOMER DRAWING

					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.				
UNLESS OTHERWISE SPECIFIED					SIZE	WIDTH	MULT	LBS/M	TEMPER
1. ALL DIMENSIONS IN INCHES					FINISH				MATERIAL
- TWO PLACE DECIMALS ±0.02					SPEC No.				SPEC No.
- THREE PLACE DECIMALS ±0.005					FIRST USED ON				SCALE
					DATE DRAWN				1:1
B	27673	5-1-16	TO	TJK	BY	CHKD	APVD	Switchcraft®	
A	26785	06-09-11	JEB	TJK	BHM	JEB	TJK		
REV					ECO NUMBER	DATE	BY	APVD	SHEET 1 OF 3
REVISIONS					NAME				PART No.
DO NOT SCALE DRAWING					INSTRUMENT DIRECT BOX WITH PHANTOM LIFT				REV B
					SC900CT				

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	> 110kΩ	at 1kHz
Output Impedance	< 20Ω	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 25Ω unbalanced source and measured from the XLR with a 1kΩ 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	REV B

1/4" INPUT

1/4" THRU

-20dB PAD
TOGGLE SWITCH

IMPEDANCE MATCHING
TRANSFORMER,
FULLY SHIELDED

XLR OUTPUT
(LOW-Z)

RF FILTER

MANUAL MODE
XLR PIN-1 GROUND LIFT
TOGGLE SWITCH

GROUND LIFT MODE
SLIDE SWITCH

MANUAL

48V

PHANTOM LIFT CIRCUIT
FOR 48V MODE

XLR PIN-1 LIFTED FROM
INPUT GROUND WHEN
48 VOLT PHANTOM
POWER IS ENGAGED.

LED ILLUMINATES WHEN
LIFTED IN 48V MODE

PATENT PENDING

CUSTOMER DRAWING

SCALE 1:1	Switchcraft®	
DATE DRAWN 12-6-10		
DRAWN BY BHM	PART No. SC900CT	REV B