

TABLE OF CONTENTS

CHAPTER 1 ID LABEL/LOCATION INFO

1.1 Rear Panel FCC Label	1-1
1.2 Rear Panel Manufacturer's Label	1-1
1.3 Rear view, Axcera-LU10AL Translator w/FCC and Manuf. Label.....	1-2

CHAPTER 2 EXTERNAL PHOTOS

2.1 Front view, Axcera-LU10AL Translator	2-1
2.2 Rear view, Axcera-LU10AL Translator	2-1
2.3 Side view, Output Band Pass Filter Assembly	2-2

CHAPTER 3 SCHEMATICS

CHAPTER 4 TEST REPORT

4.1 RF Power Measurements	4-1
4.2 Modulation Characteristics	4-2
4.2.1 Video Modulation	4-2
4.2.2 Video Envelope Delay	4-3
4.2.3 Video Noise	4-3
4.2.4 Video Frequency Response	4-3
4.2.5 RF Sideband Response	4-4
4.2.6 Audio Modulation.....	4-6
4.2.7 AM and FM Noise.....	4-7
4.3 Occupied Bandwidth	4-7
4.4 Conducted Spurious Emissions	4-9
4.5 Radiated Emissions.....	4-10
4.6 Frequency Stability	4-12
4.7 Automatic Level Control Test	4-14
4.8 Test Equipment	4-15

CHAPTER 5 USER'S MANUAL

CHAPTER 6 INTERNAL PHOTOS

6.1 Front view, Chassis Assembly, Exciter	6-1
6.2 Side view, Receiver Assembly	6-2
6.3 Side view, IF Processor Assembly	6-2
6.4 Side view, VHF/UHF Upconverter Assembly	6-2
6.5 Side view, Control / Power Supply Assembly	6-3
6.6 Side view, Power Amplifier Assembly	6-3

CHAPTER 7 PARTS LIST/TUNE-UP INFO

7.1 Parts List	7-1
7.2 Tune-up Information	7-1
7.2.1 Exciter Chassis Assembly.....	7-1
7.2.2 Linearity Correction Adjustment	7-2
7.2.3 Frequency Response Delay Equalization Adjustment	7-2
7.2.4 Calibration of Output Power and Reflected Power.....	7-3
7.2.5 Alignment Procedure for the Band-pass Filter Assembly.....	7-4

CHAPTER 8 OPERATIONAL DESCRIPTION - MODEL Axcera-LU10AL

8.1 General Description	8-1
8.2 Technical Specifications.....	8-1
8.3 Performance Specifications	8-1
8.4 System Overview	8-2
8.4.1 Exciter Tray	8-3
8.4.1.1 Receiver Module	8-3
8.4.1.2 IF Processor Module	8-3
8.4.1.3 VHF/UHF/Upconverter Module	8-4
8.4.1.4 Control & Monitoring / Power Supply Module	8-6
8.4.1.5 Power Amplifier Module	8-6
8.5 Control and Status	8-7
8.5.1 Exciter Tray	8-7
8.6 Input and Remote Connections	8-11
8.6.1 Remote Interface Connections (Exciter Tray)	8-11
8.7 AC Input	8-11
8.7.1 Exciter Tray	8-11
8.8 System Operation	8-11
8.8.1 Principles of Operation	8-12

CHAPTER 9 CERTIFICATION OF TEST DATA

TRAK SYSTEMS MODEL 8821 DATASHEET	SHEET 1
TRAK SYSTEMS MODEL 8821 DATASHEET	SHEET 2
CRYSTEK CORP. DATASHEET	SHEET 1