

FAA ANALOG/DIGITAL TESTING

The Halcyon 704A is a “Three Personality” test system offering TIMS, Digital Data (DDS) or T1 test capability singularly or all three combined into a single unit.



Model 704A-NTS1/FAA contains all three test capabilities, replacing up to a dozen legacy FAA test sets, allowing technicians to carry a single instrument to local or remote circuit access locations.

With up to 4 hours battery life, the 704A comes complete with all cables required for standard test access. All cables, power adapter and user’s manual fit conveniently in the padded carry case.

The Halcyon 704A features 3 color-coded, interchangeable menu templates: Yellow- TIMS; Red- DDS; Green- T1/FT1. Since all capabilities are built-in, there are no modules to swap, so technicians can instantly make changes without power-cycling the unit.

The 704A may also be managed by Remote Control software GUI (standard on model 704A-NTS1/FAA), allowing automated setup, capture and storage of test

results, and periodic results capture for long-term circuit analysis.



The Halcyon 704A-NTS1/FAA is a direct replacement for our legacy CXR 5200, so if you *liked* the 5200, you’ll *love* the 704A.



Halcyon 704A Series instruments are manufactured 100% in the USA by CXR Larus Corp. and may be procured through FAA directly (P.O.), TESTMART.COM, or via US Navy contract at NAVICPMART.COM.

US Navy Contract National Stock Numbers (NSN):

TIMS Only- NSN: 7Z-6625-01-554-0881 Model 704A-430/NV
 TIMS & DDS- NSN: 7Z-6625-01-554-0857 Model 704A-PKG#2/NV
 TIMS/DDS/T1- NSN 7Z-6625-01-554-0871 Model 704A-NTS1/NV
 NOTE- The 704A-NTS1/FAA is exactly same as 704A-NTS1/NV
 NOTE- Model 704A-PKG#2/NV includes Noise-To-Ground

For additional information, please visit www.cxrларus.com or email CXR Larus FAA National Account Manager Daniel Burch at dburch@cxrларus.com.



Sample Results Capture Report:

TEST REPORT
 Universal Test Set

DATE: 9/24/2007 10:16:47 AM
 NEAR Site: DFV Dallas
 CIR ID: 1ZXXC43567
 FAR Site: ORD Chicago

9/24/2007 10:22:14 AM TIMS : 4-Wire 600 Rx: 1004Hz -19.9dB Tx: 1004Hz -7.0dB
 9/24/2007 10:22:31 AM TIMS : 4-Wire 600 C-Message Noise +20.4 dBmC
 9/24/2007 10:23:10 AM TIMS : 4-Wire 600 C-MSG Signal/Noise +68.5 dB TONE 1004Hz -19.8dBm
 9/24/2007 10:23:26 AM TIMS : 4-Wire 600 Impulse Nse 00:00:04 0 HI 76 0 MID 72dBm 0 LOW 68
 9/24/2007 10:23:32 AM TIMS : 4-Wire 600 Transients 00:00:11 0 Phase Hits 10° E 0 Gain Hits 4d
 9/24/2007 10:23:49 AM TIMS : 4-Wire 600 Phase Jitter 0.1° LF: 0.58 S/TD+68.4dB TONE 1004Hz -19.9dBm

Halcyon 704A are digital instruments calibrated at time of manufacture, requiring no periodic calibration. Instruments are NCR- No Calibration Required!



FAA ANALOG/DIGITAL TESTING

TIMS Features

2-Wire Interface/ 4-Wire Interface

Term Z= 100, 135, 600, 900, 1200 Ohms; Bridged

Dial & Hold

Bantam and RJ-11 access jacks

TX Tone 50Hz – 1.5MHz

RX 50Hz – 1.5MHz, Measure Signal Level in dBm

3-Tone Slope, Program Sweep

Line Status Indicator LEDs & Speaker w/volume control

ADSL, HDSL, ISDN Insertion Loss Tones

Broadband Sweep

Digital Volt/Ammeter

Noise Measurement/Impulse Noise Measurement

Noise-To-Ground (704A-PKG#2 only)

Broadband Noise Measurement / Impulse Noise Measurement

Filters: C- Mess, 3k, 15k, Prog, E (50kHz), F (HDSL), G (ADSL)

Load Coil Detect/Counter

23-Tone Automated Test (EDD, IMD, Gain Slope, IL, SNR, S/TD)

DTMF/MF Digit Analysis

Return Loss

105/110 Responder Test Mode

Signaling- DID, GS, LS, emulate CO or PBX

Measure signaling parms- Pre-Wink, Wink, Answer Delay

Caller ID Testing- Signal Level, Analysis, Frequency, Twist, Digits

Phase Jitter, Phase Hits, Gain Hits, Dropouts

E&M Signaling/ Ring Generator

Selective Signaling- 2 Digit/3 Digit Emulate Switch or Station- Available Fall 2008

DDS Features

4-Wire DDS Interface

DSO Interface

OCU Interface

T1 Interface (Drop & Test)

DDS Features, Continued

Load Coil Detect/Counter

Sealing Current Indicator

Switched 56 Testing

Full DDS Loopback Commands (DS0-x, NIU, CSU)

BERT Pats: 2047, 511, SP1-5, All Ones, All Zeros, Byte Encoder

BURST-Mode BERT (Packet Testing)

Frequency & Level Measurement

Data rates from 2.4kbps – 64kbps, Nx56/64

Built-in CSU/DSU

OCU Emulation w/Sealing Current (“Channel Bank in a box”)

DCE/DTE @ RS232/RS530, V.35, RS449

T1/FT1 Features

Bantam & RJ48 Interfaces

2 RX- 1 TX- (1 Ref RX)

“At-a-Glance” Circuit analysis (LEDs for all critical parameters)

“Zero Touch” setup

Term, Monitor, Bridge Modes

LED Signal Power Level (and display mode as well)

BERT Pats: QRS, 2047, 2/23-1, 2/20-1, 2/15-1, 3:24, ALL 1’s

Pats, cont: ALL Zeros, 2n8, 1:7, 63, 511

Built-in CSU

1-Touch Signaling BITS display

SF/ESF/SL96 Framing (auto-framing for MON, Bridge Modes)

Unframed CSU Mode

AMI/B8ZS Line Coding

Fractional T1 Interface/Testing Capability

Full Loopback Commands including HDSL Elements CSU, NIU,

Loopbacks, cont: V.54, HTU-C, HTU-R, HRE

HDSL Loopbacks for Adtran, Pairgain all pre-armed

Frequency and Level Measurement; Timing Slips Measurement

Full AUTO mode

All Models Contain:

Padded Carry Case

Users Manual

Quick-Reference Guides

Rechargeable, 4-Hour Battery Operation

Battery Charger/Power Supply

2-year warranty (3-years if ordered under Navy contract)

TIMS Cables Supplied:

2- Bantam-to Bantam Cables

2- Bantam-to-Alligator Cables

DDS Cables Supplied:

(All TIMS Cables, Plus the following)

1- RJ48-to-RJ48 Cable (Straight Thru)

1- RJ48-to-Alligator Clip, Pins 1,2 & 7,8 (DDS)

1- AT&T Clock Cable (for Channel Bank OIU)

1- RS232/530 DTE, DB15HD M to DB25 Male

1- V.35 DTE, DB15HD Male to V.35 Male

1- V.35 DCE, DB15HD Male to V.35 Female

1- RS449 DTE, DB15HD Male to DB25 Male

T1/FT1 Cables Supplied:

(All TIMS, DDS Cables, Plus the following)

1- RJ48-to-Dual Bantam, Pins 1,2 & 4,5 (T1)

Models with DDS and T1/FT1 also include:

Remote Control GUI Software

Serial PC cable- DB9 to RJ14