



## EXPRESS READOUT

Manufacturer-agnostic verification services for cockpit voice and flight data recorders.

FDR Details	CVR Details	DLR Details
All 251 mandatory parameters are OK. All 706 non-mandatory parameters are OK. 0 parameters need reviewing. 0 parameters need manual inspection. 0 parameters are unserviceable. 47 parameters are not allow. Overall Result: Pass	CVR Readout Progress: Complete Part Number: 7100-0200-00 Serial Number: CVR Recorder Type: L3FA0000 FSK Function: Available Hot Mic Function: Available	DLR Readout Progress: Complete Part Number: 7100-0200-00 Serial Number: DLR Recorder Type: L3FA0000

L3Harris flight data analytics solutions empower customers to take immediate safety, operation and training actions augmented by their own thoroughly analyzed and verified data using patented algorithms designed for aircraft, fleet and platform diagnostics.

Express Readout is an automatic testing and verification service built on that same, proven software engine. The manufacturer-agnostic flight data recorder (FDR), cockpit voice recorder (CVR) and data link recorder (DLR) readouts services enables customers to use a single, scalable solution for varied fleets and flight operation's needs. The intuitive, web-based platform integrates seamlessly into customers' systems using defined workflows for identified user roles within the portal.

The customer-centric system allows maintenance and flight operations staff to perform different tasks with the same data 24/7/365, minimizing time and costs.

### EASY TO USE / FAST TURNAROUND

The interface is easy to navigate and use, reducing training time required. Individual logins are provided for users with a customized dashboard and access to specific data for multiple users.

Express Readout reports are available within 3-6 business days depending on the service request. Upon completion, reports can be downloaded in various formats, including .csv files for further analysis. Users can re-test data within 30 days at no additional charge, to confirm the repair of faulty signals only.

### SERVICE LEVELS

#### Express Readout Professional

- > This service level meets the mandated regulatory requirements of EASA, FAA and others, on FDR and CVR readouts and is suitable for required annual or biennial checks.
- > FDR and CVR reports generated in the format compliant with either ICAO, EASA, FAA, CAR or DGAC.

#### Express Readout Professional Plus

- > This service level delivers additional detail and insights covering an enhanced set of parameters and extended duration.
- > The DLR service provides a correlation cross-checked with other storage mediums.
- > Compliance with EASA and ICAO.

### SELECTABLE READOUT SERVICES:

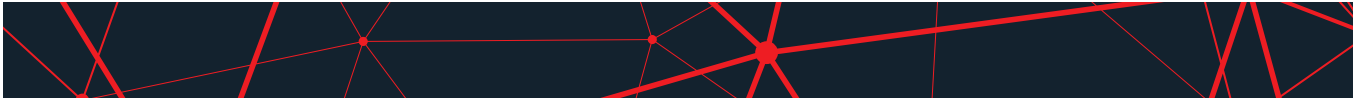
- > Flight Data Recorder (FDR)
- > Cockpit Voice Recorder (CVR)
  - > Intelligibility
  - > Data link
  - > 25-hour
- > Intuitive, secure, web-based platform

### FEATURES

- > Secure, web-based platform for recorder verification
- > Patented algorithms highlight suspect parameter patterns
- > Reports:
  - > Saved securely and indefinitely
  - > Available for download in multiple formats
- > Access multiple flights and up to 50 flight\* hours within the same readout
- > Interactive charts allow operators to inspect every\* parameter in detail
- > Compliant with the latest framework regulations\*\*
- > Full-service validated readout
  - > Includes expert assessment of faulty parameters
  - > Reports available within 3 days
- > Gatekeeping and unique sharing credentials

\* For Professional Plus services only.

\*\* For FDR and CVR services only.



### REGULATORY FRAMEWORK COMPLIANCE

Express Readout services currently meet the requirements of the regulatory bodies listed below. Customers will receive the appropriate compliance statement with their selected service.

EXPRESS READOUT OPTION	ICAO	EASA	FAA	CANADA OPS	EFRPG (CVR)	CAAS	HKAN	DGCA
FDR - Professional Plus	■	■	■	■	N/A	■		■
FDR - Professional	■	■	■	■	N/A	■		■
CVR - Professional Plus	■	■	■		■	■	■	
CVR - Professional	■	■	■			■	■	
DLR - Professional Plus	■	■	■		N/A			
DLR - Professional					N/A			

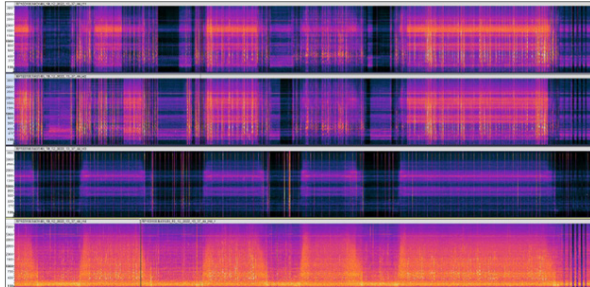
### COCKPIT VOICE RECORDER AND DATA LINK RECORDER VERIFICATION SERVICES

L3Harris offer a streamlined process for providing operators with data link embedded message decoding. Our service enables operators to follow the EASA framework to validate the devices are capturing the recording properly. The L3Harris CVR intelligibility readout report follows "Guidance on CVR Recording Inspection" produced by the Flight Recorder Partnership Group and was published by the Bureau d'Enquêtes et d'Analyses (BEA) in 2018.

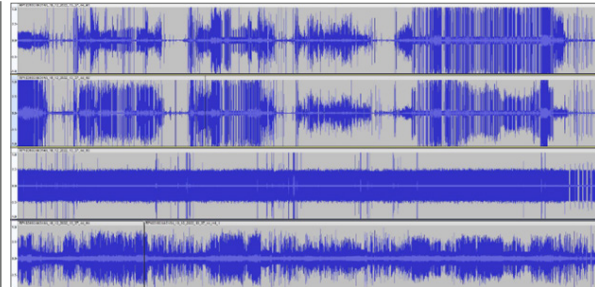
### AUDIO SPECTROGRAM AND WAVEFORM (CVR)

For every CVR readout we output the spectrogram and waveform which gives an illustration from just a glance of the content and duration of the 4 channels.

#### Spectrogram



#### Waveform



### GRAPHICAL MODULE (FDR)

Clicking on any parameter in the FDR readout will bring up the graphical module that allows the user to inspect the plot of that parameter, overlay other parameters, highlight flight phases, display tests results, save comments and change its overall state. L3Harris holds multiple patents for the advanced techniques used for detecting unserviceable parameters in a FDR readout.

#### Express Readout

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