



HELLO INSIGHT

HELLO STACKS OF FEATURES

DUG Insight is a full-featured 2D/3D/pre-stack visualisation and interpretation package. It includes all the necessary tools for a complete interpretation workflow, from reconnaissance to crossplotting - with a fully-integrated 3D canvas, and support for pre-stack data throughout.

DUG INSIGHT BASE FEATURES

2D/3D/Pre-stack display	Fault and horizon interpretation	Mapping and gridding
Integrated 3D view	Waveform horizon propagation	Culture (including shapefiles & KML)
Advanced arbitrary line navigation	Horizon interpretation on gathers	Import and export SEG-Y
Interactive time/depth conversion	Stratigraphic flattening on multiple surfaces	Mistie correction (time, phase, amplitude)
Geological cross-sections	Fault projection	Velocity conversion
Crossplotting	Polygons and fault polygons	Volume resampling
Spectral analysis	Well marker / tops picking	Trace arithmetic
Statistical wavelet extraction	Horizon amplitude extraction	RMO picking
AVA synthetics	View and interpret on image data	Project backup/restore / well manager



POWER UP WITH ADVANCED AND SPECIALIST MODULES

ADVANCED MODULES

EXPLORATIONIST

From seismic attributes, filtering and smoothing, to spectral decomposition, RGB blending and velocity modelling, the Explorationist module includes everything you need to take your interpretation to the next level.

Angle and offset muting of gathers
Stacking of gathers
Convert gathers between offset and angle
Spectral balancing and shaping
AGC and other gains (for stacks)
Band-pass filtering (for stacks)
Structurally-oriented filtering
3D dip and azimuth
Velocity modelling (from checkshots)
Low-frequency model building
RGB and CMY blending
Geobody detection
Spectral decomposition
Instantaneous attributes
Incoherence, semblance and curvature
Automated multi-horizon propagator
Volume smoothing
Volume interpolation + extrapolation
Merge and sculpt volumes
Volumetrics

IMAGE GATHER PROCESSING

The Image Gather Processing module provides an indispensable toolkit for analysing and processing image gathers. It includes essential tools such as velocity and RMO picking, NMO and RMO correction, gains, muting, stacking, Tau-P deconvolution, Radon and FX transforms and more.

Angle and offset muting of gathers
Stacking of gathers
Convert gathers between offset and angle
Spectral balancing and shaping
AGC and other gains (stacks and gathers)
Band-pass filtering (stacks and gathers)
Structurally oriented filtering
3D dip and azimuth
Velocity modelling (from checkshots)
Low-frequency model building
Correlation and autocorrelation
Radon, FK and FX transforms
Dip filter, Q filter, Cadzow filter, and K filter
Apply and remove NMO
RMO picking and correction
Header and trace interpolation
Velocity picking and delta model building
Convolution, deconvolution, FX decon
Volume CRS conversion
Weighted trace mixing

GATHER ATTRIBUTES

The Gather Attributes module enables interactive AVA and AVO analysis of gathers and stacks, from calculating intercept and gradient to AVA stack rotations (EEI equivalent).

Angle and offset muting of gathers
Stacking of gathers
Convert gathers between offset and angle
Spectral balancing and shaping
AGC and other gains (stacks and gathers)
Band-pass filtering (stacks and gathers)
Correlation and autocorrelation
Radon transform and demultiple
Intercept and gradient
Polynomial analysis of AVO
AVA stack rotation (EEI equivalent)

PROCESSING & IMAGING

DUG's full production Processing & Imaging (P&I) software suite is now available. DUG has developed key technologies in deblending, noise removal, deghosting, designature, demultiple, regularization, and imaging to meet all your OBN, Marine and Land P&I goals.

Cadzow filter
Curvelet-domain adaptive subtraction
Deblending
Deghosting
Full waveform inversion (FWI)
Hi-res time-domain Radon
HTI picking/fitting
Interbed multiple elimination (IME)
Kirchhoff migration (depth/time)
Least-squares migration (Kirchhoff, RTM)
OBN orientation QC/correction
OBN U/D, D/D deconvolution
Near field hydrophone debubble, designature
Regularisation/interpolation (2D,3D,4D,5D)
Reverse time migration (RTM)
Surface related multiple elimination (SRME)
Surface-consistent amplitudes/statics/deconvolution
Time tomography
Tomography (reflection,refraction)
Wavelet extractor (Bayesian,statistical)

SPECIALIST MODULES

PORE PRESSURE PREDICTION

The Pore Pressure Prediction module adds a complete workflow for interactive geopressure analysis, including prediction at wells and full 3D pressure models.

Interactively predict overburden, pore, and fracture pressures

1D PPP at well locations

3D PPP from seismic velocities

Model centroid and fluid buoyancy effects

PPP uncertainty simulation

Eaton and Miller PPP methods

Matthews-Kelly fracture gradient

Volume smoothing

Volume integration

Velocity picking (from gathers)

ROCK

Rock provides a powerful, intuitive workflow for interactive depth-dependent end-member lithology trend interpretation and stochastic forward modelling.

Interpret lithologies from well logs

Calculate end-member trends

Quantify variation in elastic properties

Stochastic forward modelling

AVA stack rotation modelling

LITHOFLUIDS

The Lithofluids module utilises a Bayesian supervised classification scheme to make quantitative predictions based upon inverted seismic data and depth-dependent, statistical rock physics models.

Low-frequency model calibration

Lithology/fluid calibration at well locations

Bayesian prediction engine

Structural geological prior models

Lithology/fluid prediction from inverted seismic data

SAY HELLO TO NEVER SLEEP SUPPORT

DUG Insight offers a peerless support team located in every time zone of the world. That means round-the-clock support for users. Just email support@dug.com for the same-day solutions

SAY HELLO TO GREAT DUG VALUE

With competitive pricing and invisible licensing, running DUG Insight is simple and straight-forward. Prices include everything, from upgrades and maintenance to online support.

SAY HELLO TO SEAMLESS PERFORMANCE

Available for Windows, Linux MacOS and via our DUG McCloud platform. Insight performs seamlessly on any machine, from basic laptops to high-performance workstations.

SAY HELLO TO DATA ROOM POWER

DUG Insight's powerful visualisation and interpretation tools make it a great choice for the data room. Start investigating prospects and exploring basins faster with the straightforward, easy-to-learn interface.



DATA MODULES

DATA MANAGER

The Data Manager module includes DUG's powerful gather compression, packing your data ten times smaller with no appreciable loss in quality! The module also extends Insight's project management tools with powerful synchronisation and project-to-project copying features.

Advanced compression for gathers

Project synchronisation

Direct copy between DUG Insight projects

KINGDOM READER

Ready to switch to DUG Insight, but confronted with years of data stored in IHS Kingdom* projects? Insight's Kingdom Reader will save you from the tedium of data migration.

View in/copy to DUG Insight

Wells

Faults

2D and 3D horizons

2D and 3D volumes

PETREL LINK

Already have the Petrel* E&P software platform? Now you can take advantage of DUG Insight's intuitive interpretation platform and advanced visualisation, using your data directly from Petrel.

View in/copy to DUG Insight

Copy from DUG Insight

Synchronised cursor/crosshair

Wells

Faults

2D and 3D horizons

2D and 3D volumes

*Mark of IHS, *Mark of Schlumberger.

SAY HELLO TO DUG INSIGHT'S FREE 30-DAY TRIAL

We truly believe that DUG Insight will revolutionise the way you interpret your data. See for yourself and download a free, no-obligation, 30-day trial from www.dug.com/dug-insight. What's more, DUG Insight is free for academic use. Just email us a copy of your student ID and we'll tell you more.