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

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POWER UP
WITH ADVANCED 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.

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.

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).

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, regularisation, and imaging to meet all your OBN, Marine and Land P&I goals.

EXPLORATIONIST	IMAGE GATHER PROCESSING	GATHER ATTRIBUTES	PROCESSING & IMAGING
Angle and offset muting of gathers	Angle and offset muting of gathers	Angle and offset muting of gathers	Cadzow filter
Stacking of gathers	Stacking of gathers	Stacking of gathers	Curvelet-domain adaptive subtraction
Convert gathers between offset and angle	Convert gathers between offset and angle	Convert gathers between offset and angle	Deblending
Spectral balancing and shaping	Spectral balancing and shaping	Spectral balancing and shaping	Deghosting
AGC and other gains (for stacks)	AGC and other gains (stacks and gathers)	AGC and other gains (stacks and gathers)	Full waveform inversion (FWI)
Band-pass filtering (for stacks)	Band-pass filtering (stacks and gathers)	Band-pass filtering (stacks and gathers)	Hi-res time-domain Radon
Structurally-oriented filtering	Structurally oriented filtering	Correlation and autocorrelation	HTI picking/fitting
3D dip and azimuth	3D dip and azimuth	Radon transform and demultiple	Interbed multiple elimination (IME)
Velocity modelling (from checkshots)	Velocity modelling (from checkshots)	Intercept and gradient	Kirchhoff migration (depth/time)
Low-frequency model building	Low-frequency model building	Polynomial analysis of AVO	Least-squares migration (Kirchhoff, RTM)
Geobody detection	Correlation and autocorrelation	AVA stack rotation (EEI equivalent)	OBN orientation QC/correction
Spectral decomposition	Radon, FK and FX transforms		OBN U/D, D/D deconvolution
Instantaneous attributes	Dip filter, Q filter, Cadzow filter, and K filter		Near field hydrophone debubble, designature
Incoherence, semblance and curvature	Apply and remove NMO		Regularisation/interpolation (2D,3D,4D,5D)
Automated multi-horizon propagator	RMO picking and correction		Reverse time migration (RTM)
Volume smoothing	Header and trace interpolation		Surface related multiple elimination (SRME)
Volume interpolation + extrapolation	Velocity picking and delta model building		Surface-consistent amplitudes/ statics/deconvolution
Merge and sculpt volumes	Convolution, deconvolution, FX decon		Time tomography
Volumetrics	Volume CRS conversion		Tomography (reflection,refraction)
	Weighted trace mixing		Wavelet extractor (Bayesian,statistical)

DIVE DEEPER
WITH SPECIALIST MODULES

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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.

ROCK

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

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)

Interpret lithologies from well logs

Calculate end-member trends

Quantify variation in elastic properties

Stochastic forward modelling

AVA stack rotation modelling

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.

CONNECT WITH DATA MODULES

COMPREHENSIVE TRAINING AND SUPPORT

DATA MODULES

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,

TRAINING & SUPPORT

TRAINING & EDUCATION

Comprehensive and cost-effective, DUG standard training incorporates real-world data to solve real-world problems. Users leave with a thorough understanding of the software and a solid foundation of best-practice workflows. If you're interested in exploring training options, contact us today.

Have something particular in mind? We can collaborate with you to develop a course to focus on specific goals, even using your own data. Contact our team for details.

OUR SUPPORT COMMITMENT

We'll do everything we can to ensure that you love our software as much as we do, and help you every step of the way. With one email you'll get a prompt response from a real person who can help you load your data, get you started with an evaluation, or walk you through a technical procedure.

Our round-the-clock support network has made us famous and we guarantee to respond to you in a timely manner.

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.