ISO 9001
BUREAU VERITAS
Certification

UKAS
QUALITY
MANAGEMENT
0008

KAN
Komite Akreditasi Nasional
Lembaga Sertifikasi Sistem Manajemen
LSSM-021-IDN

explora prima

Survey Specialist

COMPANY PROFILE

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explora prima
Survey Specialist

We are committed to meeting our clients' needs and expectations through good professional practice and the consistent implementation of our Quality Management System.

HISTORY

Established in 2011 in Batam, Indonesia, the company was founded by a group of experienced offshore and dimensional control surveyors. We provide specialized survey services to the Marine and Oil & Gas sectors, delivering services with a strong emphasis on safety, quality, as well as cost and time efficiency.

With a proven track record across a wide range of projects, we continue to expand our services utilizing the latest technologies in land, marine, and airborne surveying while implementing ISO 9001:2015 quality management standards.

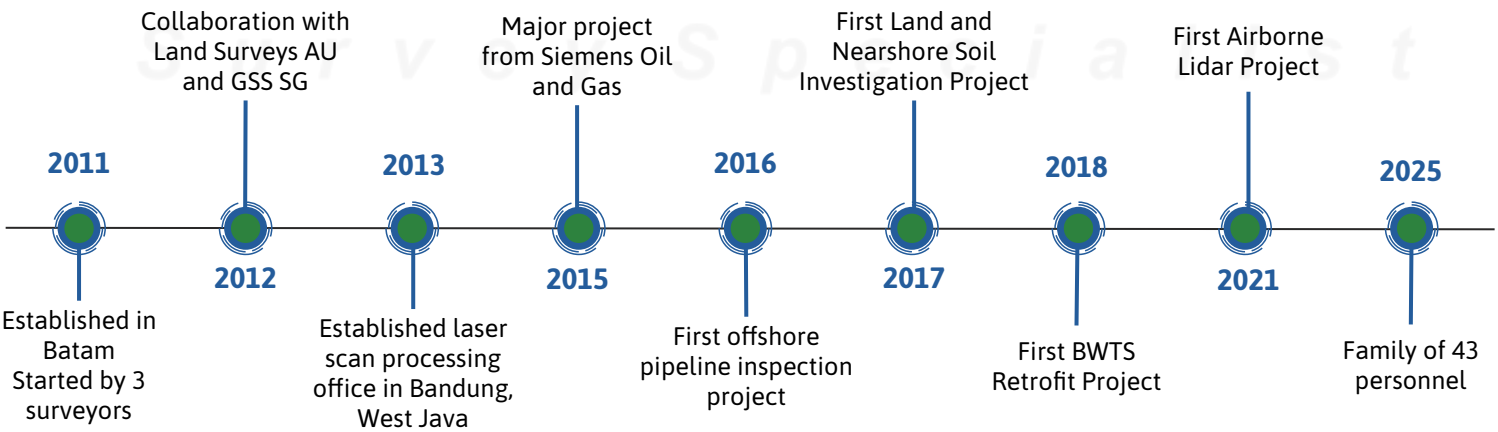
VISION

To be a leader in providing survey services, delivering excellence through strong commitment, continuous progress, and sustainable growth.

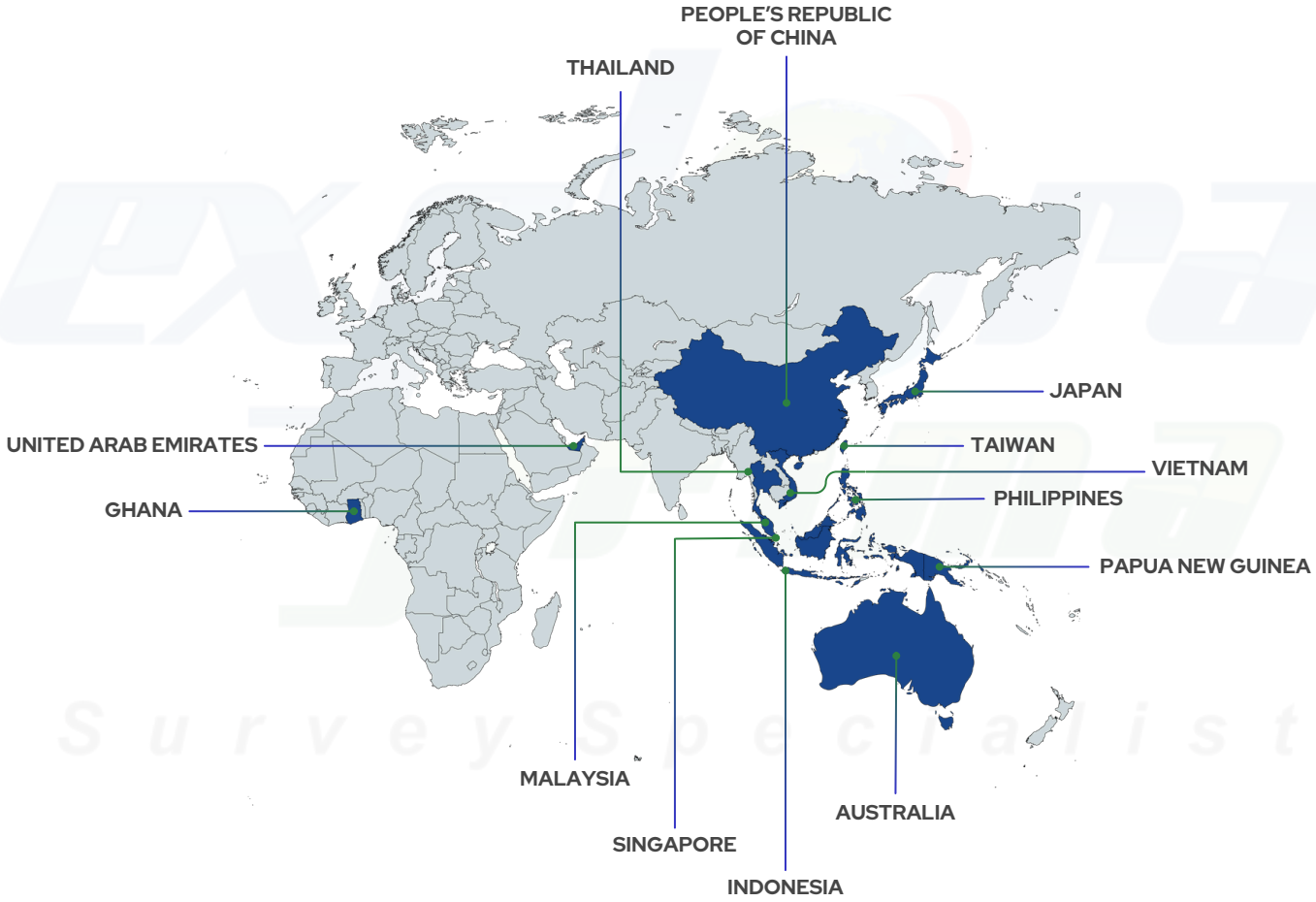
MISSION

Highly accurate and safety-oriented, utilizing state-of-the-art technology, and delivering value-added survey information.

Our Milestones



PROJECT FOOTPRINT



PARTNERS

AUSTRALIA

SINGAPORE

PAPUA NEW GUINEA

INDONESIA

INDONESIA

INDONESIA

BUSINESS PERMIT

Company Name	:	PT EXPLORA PRIMA
Address	:	Jl. Raja M. Tahir, Ruko Greenland Blok B Number 06 Batam Center, Batam 29461, Indonesia
Email	:	info@exploraprima.com
Website	:	www.exploraprima.com
Business Activities	:	• 3D Laser Scanning • Dimensional Control • Offshore Survey • Land Survey • UAV Mapping & Drone Lidar • Bathymetric Survey • Geotechnical Survey
Business Qualification	:	B
Deed of Establishment (Notarial Deed)	:	Wany Thamrin S.H., M.Kn Number: 27, 11 March 2011
Amendments pursuant to Law No. 40 of 2007	:	Shinta Christiana Puspitasari, SH Number: 10, 12 January 2015
Amendments pursuant to Law No. 40 of 2007	:	Yulianti, S.H., M.Kn Number: 14, 27 March 2017
Amendments pursuant to Law No. 40 of 2007	:	Yulianti, S.H., M.Kn Number: 36, 29 January 2020
Approval from the Ministry of Law and Human Rights	:	AAHU-19312.AH.01.01.Year 2011 Dated 18 April 2011 AHU-0942035.AH.01.01.Year 2015 Dated 11 September 2015 AHU-AH.01.03-0153790 Dated 18 July 2017 AHU-0009060.AH.01.02.Year 2020 Dated 03 February 2020
SIUP (Business License)	:	N/A
KBLI	:	43223, 43291, 71101, 71102, 05101, 05102, 05200, 06100, 06201, 07101
NIB (Business Identification Number)	:	0220000280786
NPWP (Tax Identification Number)	:	03.131.385.1-215.000
NON PKP	:	S-505.WPJ.34.KP.04.2018
SBU Non-Construction Survey Services	:	2171-48621-670742
SBU Non-Construction Special Services	:	2171-48621-991219

RESOURCES

Personnels

Project Manager	:	3	Geophysicist	:	2
Supervisor	:	4	Data Processor	:	6
Surveyor/Geodetic Engineer	:	11	Survey Support	:	4
Naval Architect	:	2	Soil Drilling Team	:	8

Software and Hardware

Autodesk AEC	:	2	Beamwork	:	1	IntelliCad	:	8	High-end PC	:	6
Autocad	:	3	MaxView	:	1	Trial Lift Monitor	:	1	Processing PC	:	5
BestFit	:	8	Aveva PCM	:	5	Maxsurf	:	1	Acqusition PC	:	7
Eiva	:	2	Scene	:	4	Hydromagic	:	1	Processing Laptop	:	8
SonarWiz	:	1	Leica 360	:	1				Dimcon Field Laptop/Tablet	:	8

Vehicles

Car	:	4

RESOURCES

Equipments

Total Station	: 13	**Waterpass**	: 3	**USBL**	: 4	**Side Scan Sonar**	: 6
Auto Level	: 5	**Radio**	: 5	**SVP**	: 5	**MRU**	: 6
3D Laser Scan	: 8	**Logger**	: 4	**SBES**	: 2	**Sub Bottom Profiler**	: 1
Handyscan	: 3	**Lidar**	: 2	**MBES**	: 2	**Mini ROV**	: 1
Laser Plummet	: 1	**Drone**	: 2	**Tide Gauge**	: 2	**USV**	: 3
GPS	: 24	**360 Camera**	: 2	**Inclinometer**	: 5	**Profiler**	: 2


TS 16 Robotic Total Station


LS10 Auto Level


Creaform 700 Elite


Leica RTC360


BlueROV2 Heavy Con


R2Sonic MBES


iXblue PHINS MRU

Accesories


Spike Prism


Sliding Prism


Mini Prism


Mini Prism for Reference Sphere


GRZ 360 Prism


Leica GPR Prism


Rain Cover for TS

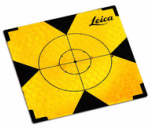

Prism Leica GMP


Levelling Staff

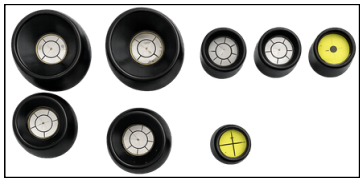

Prism Pole


Magnetic Target


Flange Target


Reflective Target


Tripod for TS


Half-round ball target


Diagonal Eyepiece


Thickness Gauge


360 Prism


Corner Prism


Sun Filter Total Station


Substance Bar


Prism Reference Sphere


Tripod for 3DLS

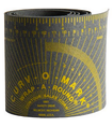

Sphere


Checkerboard


Ball Head


Laser Plummet


Leica Disto


Pipe Wrap Around


Precise Inclinometer


Sauter UTG


Center Pipe Finder

Mini Target Tripod

RESOURCES

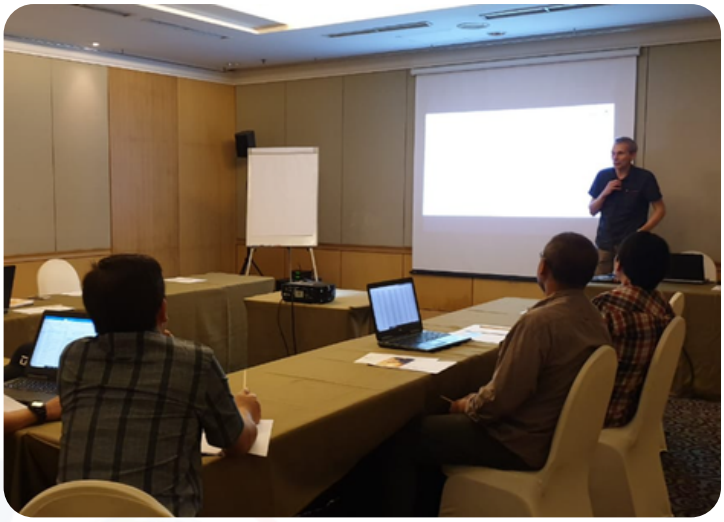
Training

We understand the need for employees to develop the knowledge, skills & attitude required to carry out their jobs efficiently and to enhance their every opportunity for career development.

The company arranged training for employees periodically, which includes:

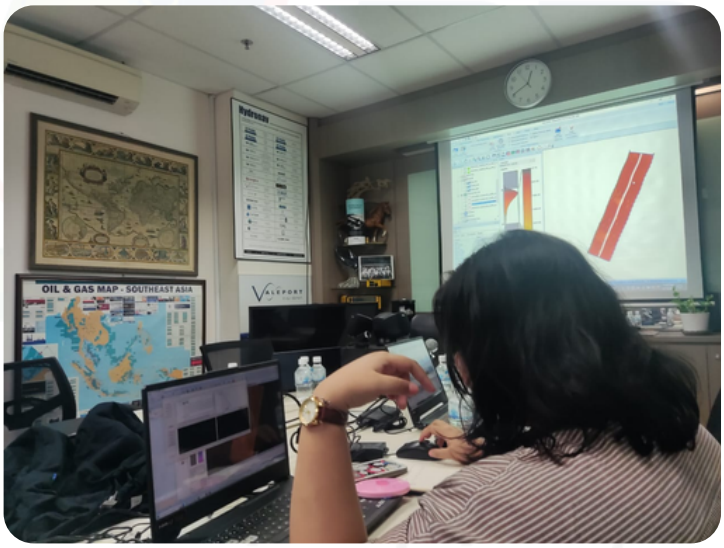
- Safety training and certification (OPITO BOSIET/GWO, CFE, WAH, H2S)
- Specific skills training (Survey Electronics, UAV, USV)
- Equipment training (Total Station, Laser Scan, etc.)

The training is conducted either internally or externally by the expert or by the equipment vendor.



Survey Network Adjustment Training

Working at Height Training



Chesapeake Sonarwiz Training

GWO Offshore Training

3D Laser Scan Training

SERVICES

We aim to minimise and eliminate risks in our operation to achieve ZERO incidents.

Why do we need

DIMENSIONAL SURVEYING?

High-quality dimensional surveying and object modeling can accurately analyse objects in relation to other structures or existing designs.

Fabrication of steel structures requires multiple fit-ups, which can only be achieved through high-accuracy surveying of individual parts to build a complete structure.

Dimensional Control can avoid:

- Re-work due to unfit parts
- Clash objects due to unanticipated retrofit
- Deviation from the original design plan

Dimensional survey services include:

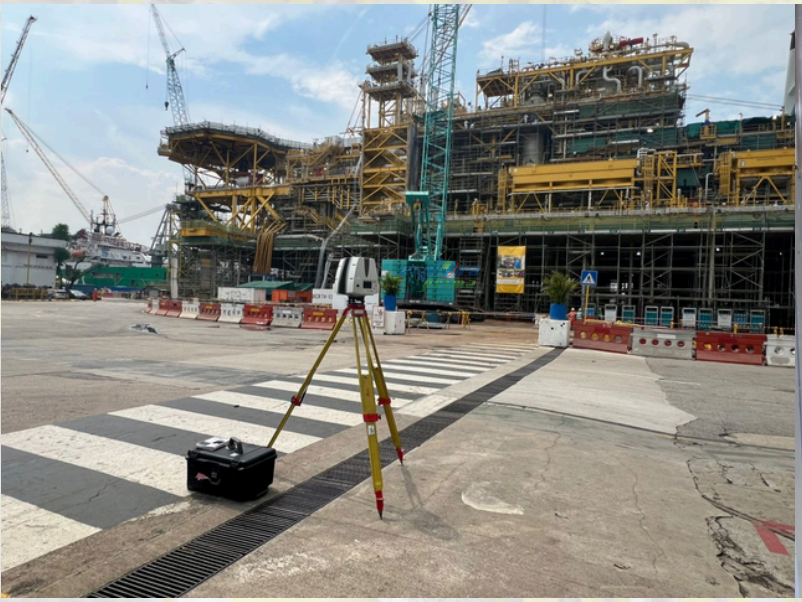
- Spool metrology
- As-built survey (platform/jacket)
- Dimensional metrology
- Ship dimensional surveying
- Tanks & vessel surveying
- Plant as-built

Parameters requiring dimensional control include alignment, length, thickness, ovality, straightness, circumference, and as-built verification of structures.

DIMENSIONAL CONTROL

All Dimensional Control activities are supported by advanced survey instruments, including high-precision Total Stations and 3D Laser Scanning, delivering reliable measurements and comprehensive as-built documentation. These deliverables are vital to project quality assurance, compliance with client specifications, and adherence to international offshore standards.

By implementing Dimensional Control, project stakeholders benefit from reduced rework, improved safety, enhanced construction efficiency, and assured dimensional integrity, enabling the successful execution of complex offshore and oil & gas developments.



3D LASER SCANNING

Explora Prima offers 3D Modeling Services using Laser Scanning Data for 3D Plant-as-built, reverse engineering, and heritage building-as-built.

We can offer you the following services:

3D Laser Scanning Modeling

Spatial 3D Laser scanners rapidly capture as-built data, providing an accurate and detailed 3D representation in point-cloud and 3D CAD Formats. A cost-effective and reliable method of acquiring data directly in 3D space for use in the CAD environment.

Engineering Analysis

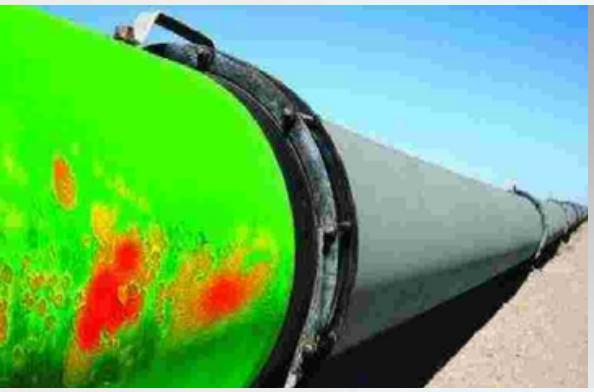
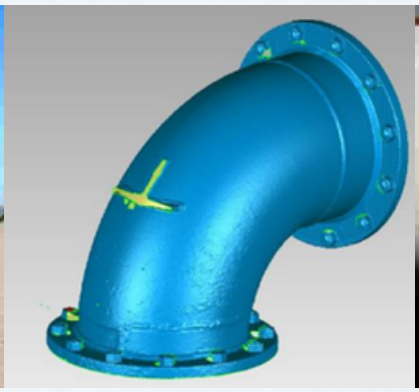
Finite Element Methods from a 3D model. FEM allows detailed visualization of where structures bend or twist, and indicates the distribution of stresses and displacements. FEM provides a wide range of simulation options.

CAD Modeling Services

We offer a variety of CAD and 3D modeling services. Our team has extensive knowledge and handles projects ranging from small to large CAD / Drafting projects.

Semi-Intelligent and Intelligent PDMS

We can provide a semi-intelligent and intelligent Plant Design Management System (PDMS) deliverable. The PDMS model offers a full spectrum of engineering documentation, including P&IDs, isometric drawings, reports, and stress analysis for engineering design.


METROLOGY SCANNING


Metrology scanning is a high-precision measurement method that utilizes advanced 3D laser technology to accurately capture geometric data of physical objects and industrial assets. The HandySCAN 300™ delivers accuracy up to 0.040 mm with high volumetric precision.

The system can perform up to 205,000 measurements per second, with a 225 × 250 mm scanning area, a 300 mm stand-off distance, and a 250 mm depth of field. Suitable for parts from 0.1 to 4 meters, the HandySCAN 300™ supports precise dimensional control, inspection, and as-built verification across a wide range of engineering and industrial applications.

Corrosion Mapping

We perform high-accuracy 3D laser scanning of tanks, pipes, columns, and vessels to produce detailed 3D mesh models, corrosion severity maps, and deformation analysis reports. UTG verification can also be conducted when required to ensure data accuracy and integrity assesment.

Pipe and Dimensioning

High-accuracy 3D laser scanning of pipe ends is performed to assess diameter, roundness, ovality, and alignment. This ensures proper fit-up, minimizes joint Hi-Lo, and enhances welding quality during installation.

Spool Measurement

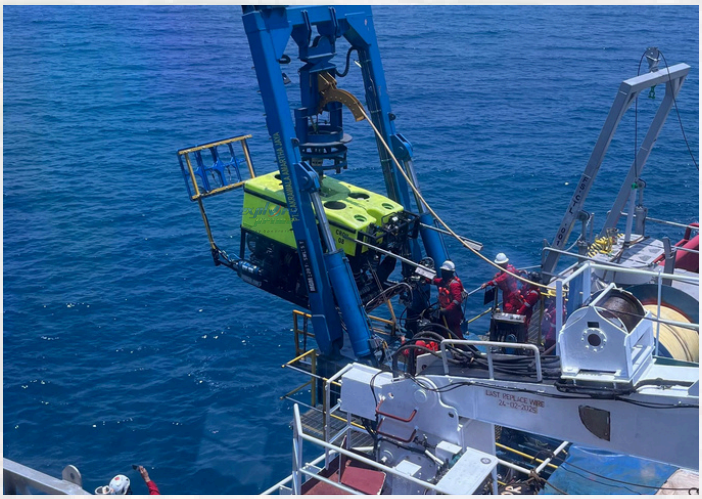
Precise 3D scanning and modeling of existing spools to ensure accurate fabrication and replacement. Digital verification prior to installation helps minimize misalignment risks in complex piping systems.

Site Acquisition

OFFSHORE SURVEY

Explora Prima assists clients in delivering projects by providing top-quality offshore survey support services. Our offerings combine experienced personnel and the latest technological equipment.

1. **Installation survey support:**
   - Jacket and Platform installation
   - Pipeline installation
   - Subsea assets (Pile, PLEM, Manifold, Umbilical) installation
2. **Positioning support**
   - Barge mooring and positioning
   - FPSO station keeping monitoring
   - Drilling rig positioning
3. **Diving and ROV survey support**
4. **Salvage survey support**
5. **High-resolution seabed mapping**
6. **Subsea assets 3D mapping**
7. **Pipeline inspection**
8. **Cable and Pipeline Route survey**
9. **Spool metrology**
10. **Drone aerial inspection**



LAND SURVEY

We offer a wide range of mapping services using the latest surveying technologies, including Electronic Total Stations, 3D Laser Scanners, and Unmanned Aerial Vehicles (UAVs).

We offer land survey services to assist with planning, engineering, and design. Our experienced surveyors provide precise and reliable results using the latest surveying technologies.

Our services include:

- Topographic Survey
- Mining Survey
- Stockpile Volume Survey
- Construction Survey
- Pipeline Survey
- Geodetic Control Network
- Deformation / Slope Stability Monitoring
- Aerial Terrain Mapping
- Disaster Site Mapping

BATHYMETRIC SURVEY

A bathymetric survey measures water depth and maps the shape and features of the seabed using acoustic methods

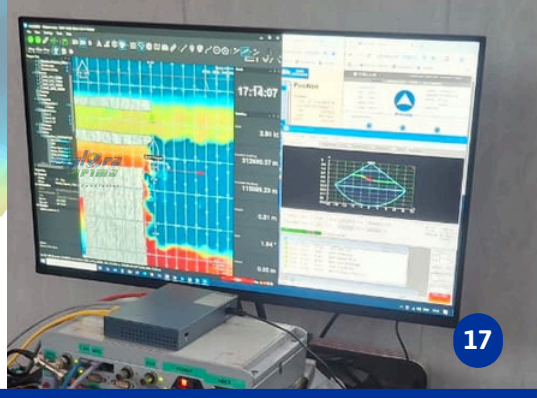
We are able to conduct bathymetric surveys and provide high-resolution seabed maps and sonar images, assisting our clients with their decision-making.

Bathymetric Survey Purposes:

- Dredging and reclamation activities
- Pipeline and cable route assessment
- Environmental surveys
- Seabed hazard identification and assessment
- Yard pre-load-out assessment

Equipments :

- SBES Airmar or similar
- MBES R2SONIC or similar
- GNSS Trimble R9 or similar
- Valeport TideMaster or similar
- Valeport Mini SVP or similar
- Side Scan Sonar C-MAX CM2 or similar
- MRU PHINS or similar
- Profiler Tritech or similar
- Valeport Current Meter or similar



OCEANOGRAPHY

The survey is conducted to collect marine parameters in the target area, including physical water properties as well as biological and biodiversity data.

Physics Parameters:

- Current
- Tide
- Temperature
- Salinity
- Depth
- Wave
- Dissolved Oxygen (DO)
- pH
- Nutrients
- Pollutants

Biological Parameters:

- Plankton studies
- Fish
- Seabed organism
- Biota & habitats (coral reefs, mangroves, etc.)
- Other marine biodiversity

CTDs

A Conductivity, Temperature, and Depth (CTD) survey is used to measure the physical properties of seawater.

It is carried out at selected points to collect data and describe the water conditions in the target area.

CURRENT METER

A current meter survey involves placing a current meter at a selected location and depth for a certain period to record seawater movement.

Ideally, it runs long enough to capture tidal changes, seasonal effects, and lunar cycles, so the data reflect actual current conditions.

NISKIN BOTTLE

A Niskin bottle is a survey instrument used to collect seawater samples at specific depths.

The collected samples are then analyzed in the laboratory to determine chemical parameters and other water quality characteristics as needed.

TIDE GAUGE

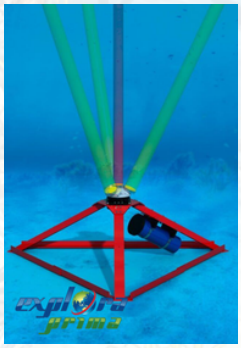
A tide survey records sea-level variations, including tidal patterns and timing, in the survey area.

Instruments such as tide gauges, stilling wells, and staff gauges are installed on stable structures to ensure precise readings despite waves, currents, and tides.

REAL-TIME SENSOR

A real-time chemical sensor survey is conducted to monitor seawater chemical parameters directly and in real time.

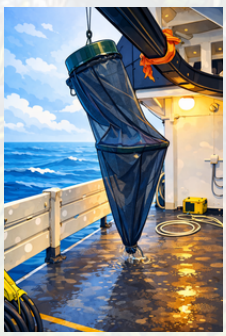
The monitoring runs continuously over a set period to support surveillance activities and scientific studies that require tracking changes over time.



ADCP

An Acoustic Doppler Current Profiler (ADCP) measures seawater's physical parameters using acoustic (sonar) sensors.

It can record current speed and direction, along with other supporting parameters, all with a single system—data that previously required several separate instruments.



PLANKTON NET

A plankton net is used to collect plankton from the water column to support marine ecosystem studies.

In offshore mining areas, it helps evaluate the biological condition of the water. Sampling microorganisms or seabed organisms requires specialized and durable equipment suited to marine conditions.

ROV

An ROV is a surface-controlled underwater vehicle used to capture video and images of the seafloor.

Its high-resolution footage provides clear visual data on seabed ecosystems and features, supporting environmental assessments and impact evaluations.

AUTOBOAT

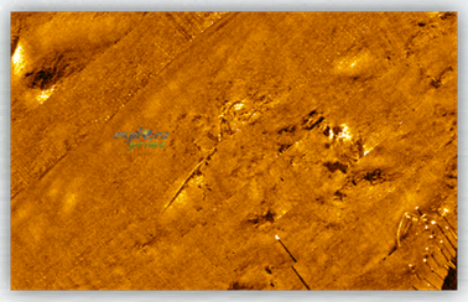
Portable Autonomous Surface Vehicles

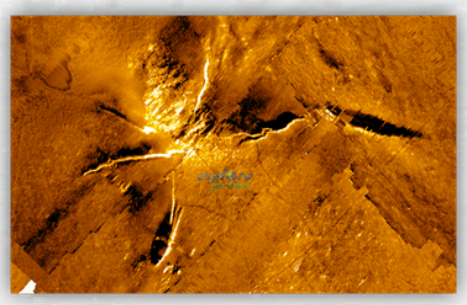
Why should we choose **AUTOBOAT**?

Suitable for:

1. DAM Bathymetry and shallow water depth bathymetry
2. Coastal Bathymetric Survey
3. Hazardous Area
4. Water Quality Survey
   - Fully-automatic mission mode or manual control mode
   - Eliminates personnel onboard accident
   - Requires fewer personnel
   - Lower operational costs

Debris Survey using Side Scan Sonar





Specifications

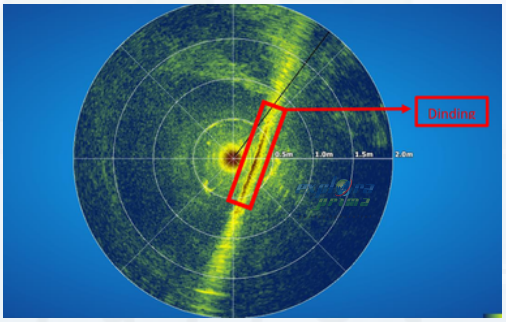
Dimension	:	1010 mm x 609 mm
Hull Material	:	Fiber Composite
Motor	:	2x Brushless Thruster
Payload	:	Up to 11 kg
Power System	:	2-4x LiPo 3C 8000mAh (up to 4 hrs endurance)
R/C Frequency	:	2.4 GHz
Telemetry Range	:	Up to 6 km (LoS)
Positioning System	:	GNSS RTK or PPK
Navigation System	:	AutoBoat Navigation, Manual RC
Failsafe System	:	Return to Home (Battery Failsafe)
Sonar Module	:	SBES Single / Dual Frequency, Side Scan Sonar, Water Quality Sensor

MINI ROV
UNDER WATER INSPECTION

DISCOVER THE CLARITY BENEATH THE WAVES WITH OUR SAFE AND AFFORDABLE UNDERWATER INSPECTION USING ROV. ACHIEVE YOUR UNDERWATER GOALS EFFICIENTLY

SPECIFICATIONS:

- Size: 457x575x256 mm, Weight 15kg
- Thruster: 4 Vertical and 4 Horizontal
- Movement: 6 Degrees of Freedom
- Power: Battery 2x 18 Ah or Outland Surface Powered (220vdc)
- Endurance (Battery): 4 Hours (Normal Use)
- Control System: Joystick or ROV Software Control
- Camera 1: HDCAM 1920x1080p, 30fps/4k Video
- Camera 2: Inspection EXPLOREHD Cam 1920x1080p
- Alt: 1280p Camera
- Lighting: Adjustable Light 4x
- Tether: 150 Meter
- Telemetry: Fathom Ethernet Telemetry
- Redundant Imu, Pitch, Roll, Heading, Altimeter
- 50 Bar Depth Sensor At (2mm Resolution)
- Sonar 360 Sector Scan
- Doppler Velocity Log
- Wireless Relay Switch Power 100a
- Auto Position, Heading, and Altitude Keeping
- Payload: Max 2 Kg (Swappable with Other Sensors)
- Optional: Inspection Recorder and Tagging Software Laser Dot

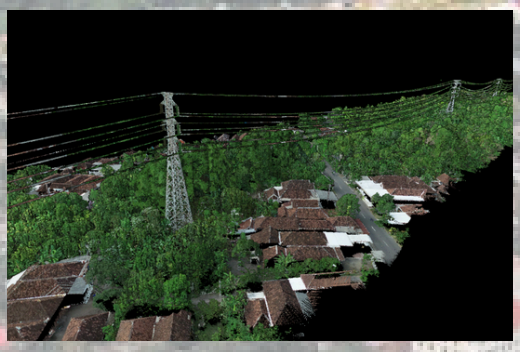


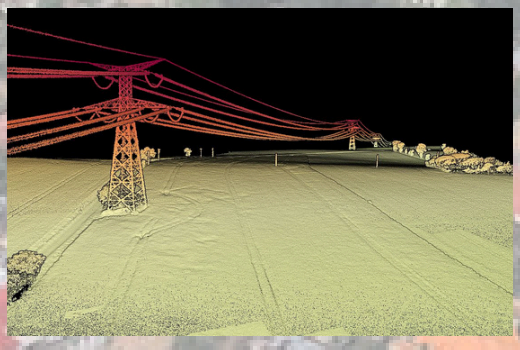
DRONE LIDAR MAPPING

Microdrones MD4-1000

Who Needs **Microdrones**?

1. **Mining Industries**
2. **Highway Construction**
3. **Forestry & Plantation**
4. **High Voltage Powerline Monitoring**
5. **Archeological And Cultural Heritage**
6. **Environmental Changes (Time Series)**
7. **Oil and Gas**



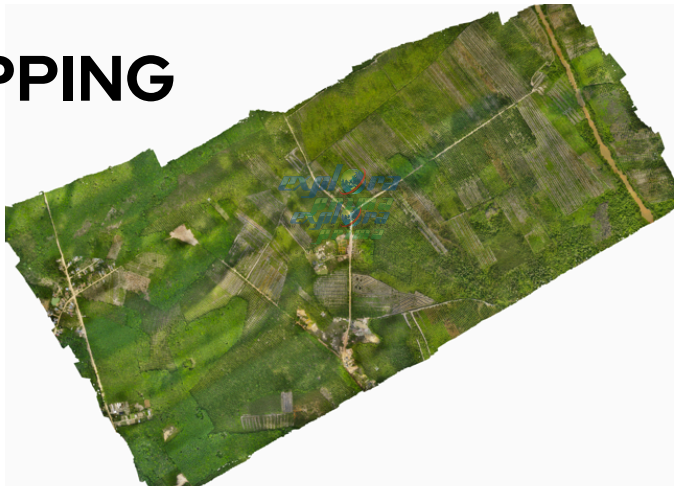


Cross Section of Acquired Point Cloud from Microdrones mdLIDAR-1000

Why Choose **Microdrones**?

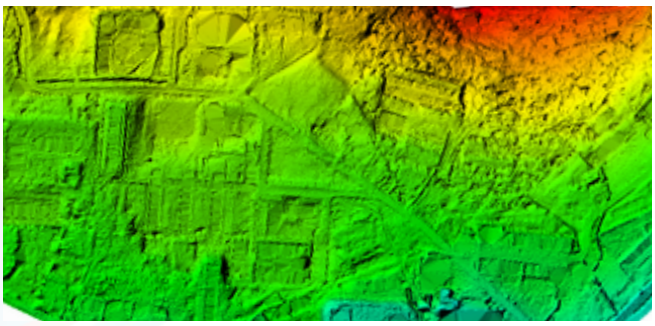
Fast	• Flight Time up to 20 minutes • Flight Speed 2 m/s
Safety	• Laser safety class : 1
Efficient	• Coverage 20 + Ha/flight
Effective	• Minimum Personnel
Less Cost	• No GCP need
Accurate	• Vertical absolute accuracy : +/- 6 cm • Horizontal absolute accuracy : +/- 6 cm

UAV MAPPING & PHOTOGRAMMETRIC MAPPING



Why Choose UAV?

- On-demand & flexible deployment for different project needs
- Lower investment cost compared to full-size aircraft
- Better image clarity by flying below the cloud level
- More cost-effective operations than traditional survey methods
- Fast turnaround time for quicker project delivery
- Efficient coverage for small to medium areas (up to 1 km^2 per flight)



We provide UAV mapping services with rapid deployment, fast turnaround time, and efficient coverage for small to medium-scale projects. Our lightweight UAV system is easy to mobilise and can cover up to 1 km^2 per flight, making it a practical alternative to conventional aerial survey methods. Data is processed quickly to deliver accurate outputs such as Orthophotos and Digital Elevation Models (DEM).

Photogrammetry Outputs (Orthophoto & DEM)

Using photogrammetry software, UAV images are processed to produce accurate mapping products, such as orthophotography and Digital Elevation Models (DEMs). These outputs provide high-resolution, geometrically corrected imagery and reliable terrain surface data for planning, design, monitoring, and volume calculations. Accuracy can be improved using Ground Control Points (GCP).

GEOTECHNICAL SURVEY

Groundwater Investigation in Bandung

Groundwater Investigation in Indramayu

Geoelectric Surveys in Palu

Soil Investigation in Sambu

Groundwater Investigation in Purwakarta

Landslide Investigation in Sambu

Soil Investigation

Explora Prima offers information on Soil Parameters that support the geotechnical design of structures.

Hydrogeological Survey

Investigation of underground formations to understand the hydrologic cycle, know the groundwater quality, and identify the nature, number, and type of aquifers.

Geological Survey

We can analyze the systematic investigation of the geology beneath a given area to create a geological map or model.

Geoelectrical Survey

As with seismic velocities, magnetic properties, and rock density, underground geoelectric resistivity may change considerably during and after the impact cratering process.

Deep Well Drilling and Standard Penetration Test

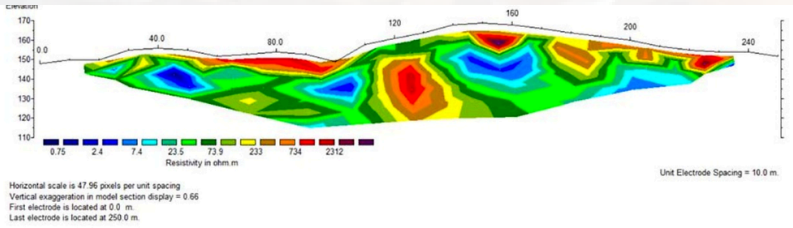
A standard penetration test is an in-situ dynamic penetration test designed to provide information on soil properties while also collecting a disturbed soil sample for grain-size analysis and soil classification.

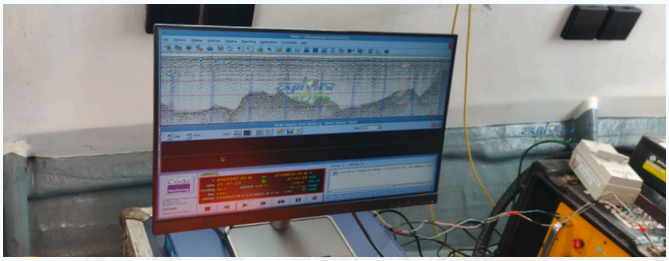
Cone Penetration Test

A cone penetration test is performed using an instrumented probe with a conical tip, pushed into the soil hydraulically at a constant rate. A cone penetration test determines the foundation type and the stability of the structure.

Hand Boring

Using hand boring methods, we determine soil type and soil structure at shallow depths (<10 m depths).





GEOPHYSICAL SURVEY

A geophysical survey uses physical methods to visualize subsurface structures on land and at sea. In marine and offshore mining, it helps map sediment layers, geological conditions, and seabed resource potential without the need for direct drilling, supporting effective planning and decision-making.

The geophysical surveys offered include Sub-Bottom Profiler, Magnetometer, and Gravimeter.

SUB BOTTOM PROFILER

The Sub-Bottom Profiler (SBP) method is used to image and interpret vertical sediment layers beneath the seabed.

It operates by transmitting acoustic waves to the seafloor and analyzing the reflected signals to determine sediment thickness, stratigraphy, and layer continuity.

In many industries, the results serve as reference data for subsurface conditions at surveyed locations. When compiled and correlated across a block area, the data can be processed into an isopach map that displays sediment thickness and supports relative volume estimates for the target layer.

GEOMAGNETIC METHODS

The geomagnetic method is a geophysical technique used to measure the intensity and variations of Earth's magnetic field caused by differences in magnetized materials beneath the surface.

The instrument used is a magnetometer, which detects magnetic anomalies associated with minerals, geological structures, or buried metal objects.

Magnetometer data are often used as a complementary method to support interpretation and provide a more comprehensive understanding of subsurface conditions.

GRAVITY METHODS

The gravity method is a geophysical technique used to measure changes in the Earth's gravitational acceleration caused by variations in subsurface material density.

The instrument used is a gravimeter, which detects gravity anomalies related to geological structures and variations in rock density.

Gravity data are often used as a complementary method to improve interpretation and gain a more comprehensive understanding of subsurface conditions.

GEORADAR SUBSURFACE UTILITY SCAN

Georadar transmits radar waves into the ground. When waves hit objects with different physical properties, they are reflected to the receiver, allowing detection of subsurface conditions and buried objects.

ADVANTAGES

- Non-destructive and safe
- Fast and accurate
- High resolution
- Easy to transport
- Identifies subsurface conditions and utilities prior to excavation

PENETRATION DEPTH

TECHNICALLLY SPEAKING:

- High frequency (1.5–2 GHz): Provides very high resolution with shallow penetration (<50 cm). Used for detailed concrete scanning (e.g., rebar).
- Intermediate frequency (250–500 MHz): Moderate resolution, 3–6 m depth. Commonly used for utilities and archaeology.
- Low frequency (100–200 MHz): Lower resolution, deeper penetration (up to 10 m). Detects only large structures.

GEORADAR ELIMINATES

- Project Delays
- Work Accident
- Pipe Leak
- Lost Time
- Redesign Costs
- Extra Work Orders
- Higher Construction Cost

ISO 9001
BUREAU VERITAS
Certification

UKAS
QUALITY MANAGEMENT
0008

KAN
Komite Akreditasi Nasional
Lembaga Sertifikasi Sistem Manajemen
LSSM-021-IDN

explora prima
Survey Specialist

Our company was founded by Surveyors.

We recognise employees as the most valuable resource and that the well-being of all employees is essential to achieve the Company's mission.

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