

 **MARINE WEEK 2019**

MADEX

Int' l Maritime Defense
Industry Exhibition **2019**

Show Report

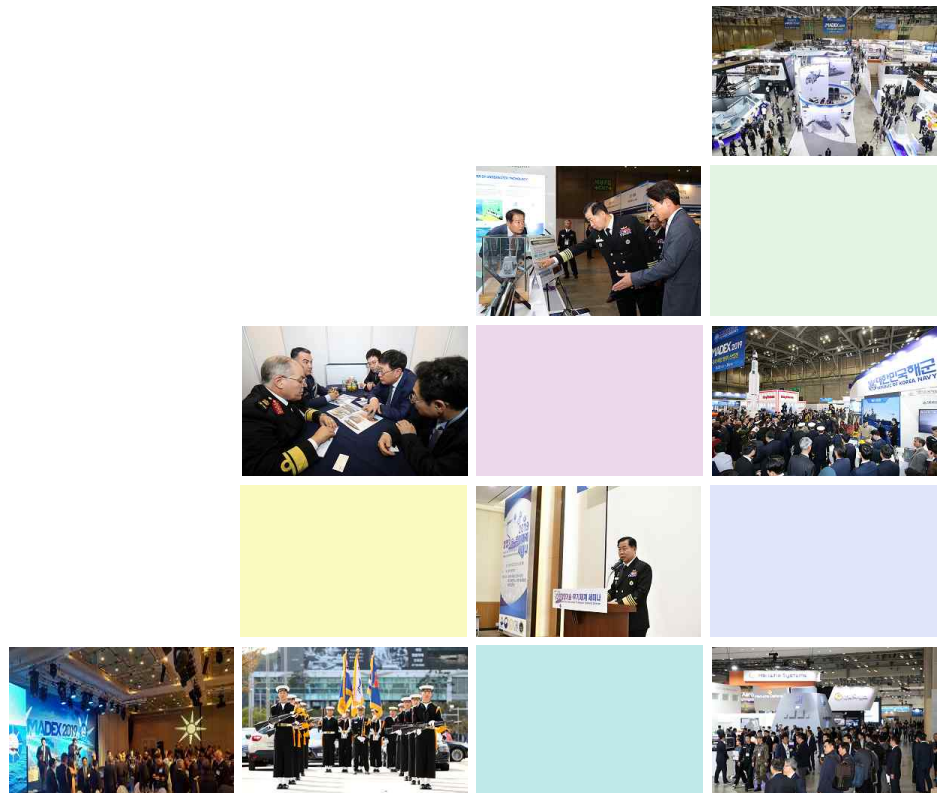


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01. Gist of Exhibition

- **Title** Int'l Maritime Defense Industry Exhibition (MADEX 2019)
- **Duration** October 22(Tue.) ~ 25(Fri.), 2019 / 4days
- **Opening Hours** 10:00 ~ 17:00 (Last Day 10:00 ~ 16:00)
- **Venue** BEXCO Exhibition Center I
- **Scales** 13,254 sqm
- **No. of Exhibitors** 11 Countries 160 Companies, 380 Booths
- **No. of Visitors** 11,297 Visitors
- **Hosted by** Republic of Korea Navy(ROKN), Busan Metropolitan City, Korea International Trade Association(KITA)
- **Organized by** Kyungyon Exhibition Corp., BEXCO
- **Exhibits**
 - Naval Ships, Maritime Defense Systems & Equipment
 - Marine Equipment, Research Vessels & Special-Purpose Ships
 - Marine Defense Industry Products
 - Engines & Navigation Systems
 - Shipyards, Shipbuilding Equipment
 - Marine Security Systems & Equipment
 - Military Supplies
 - Marine Safety Equipment
 - Communication Systems & Equipment
 - Marine Rescue and Search Equipment
 - Naval Aviation
 - GPS, GIS & IT
 - Land Defence, Training System
- **Concurrent Exhibition** Int'l Port, Logistics & Environmental Technology Exhibition (SEA-PORT 2019)

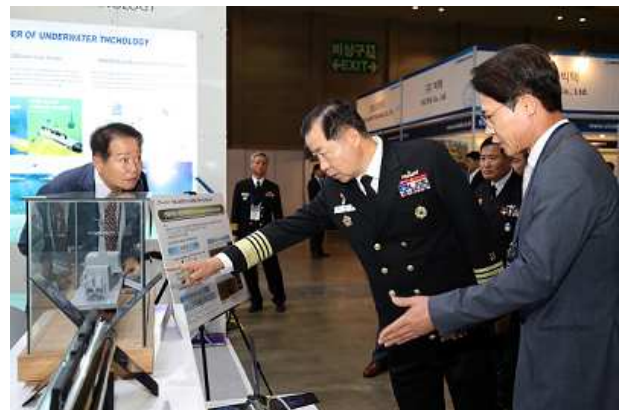
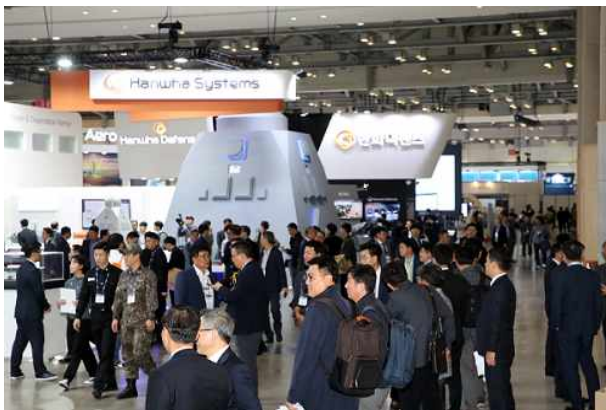
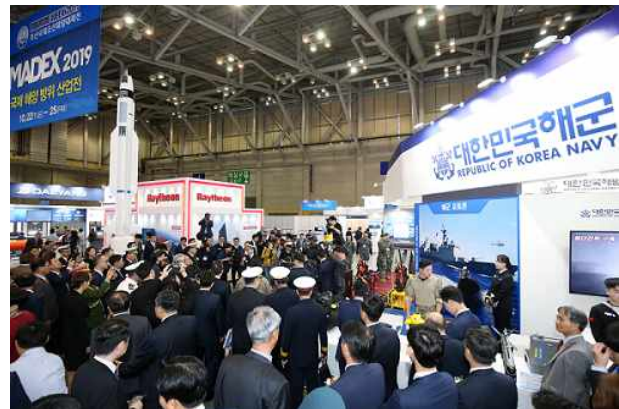
02. Facts & Figures

Exhibitors Profile

160 Companies (Overseas 60, Domestic 100) from 11 Countries, 380 Booths

Major Exhibitors

: Atlas Elektronik GmbH, Babcock International, BrahMos Aerospace, DSME, DIT DSO, GE, Hanwha Systems, Hyundai Heavy Industries, Intellian Technologies, Isotta Fraschini Motori, Korea Aerospace Industries, Lacroix, LIG Nex1, Lockheed Martin, Marine Jet Power, Poongsan, Raytheon, Rolls-Royce(&MTU), Safran Electronics & Defense, Thales and etc.



Overseas Navy Delegations

80 Navy Delegations from 26 Countries



Australia



Argentina



Bangladesh



Bolivia



Cambodia



China



Colombia



Ecuador



Egypt



Indonesia



Lebanon



Malaysia



Myanmar



New Zealand



Peru



Philippines



Russia



Saudi Arabia



Sri Lanka



Thailand



Turkey



U.A.E



United Kingdom



Vietnam



India



Japan



○ Representative Overseas Navy Delegations

No.	Country	Title	Rank
1	Australia	Director General Littoral	★
2	Argentina	Director of Intelligence & Communication(Coast Guard)	★
3	Bangladesh	Assitant Chief of Naval Staff(Material)	★★
4	Bolivia	Chief of Staff	★★
5	Cambodia	Deputy Commander	★★★
6	China	Second Commander of Northern Fleet	★★
7	Colombia	Second Commander of the Navy & Chief of Naval Staff	★★★
8	Ecuador	Defense Attaché	***
9	Egypt	Commander of Northern Fleet	★★
10	Indonesia	Deputy Chief of Naval Operations for PI	★★
11	Lebanon	Commander, Lebanese Navy	★
12	Malaysia	Inspector General	★★
13	Myanmar	Commander in Chief(Navy)	★★★★
14	New Zealand	Commanding Officer, HMNZS Aotearoa	***
15	Peru	Director of Naval Enlistment	★★
16	Philippines	Defence Attache	***
17	Russia	Deputy Head of the Navy Shipbuilding Directorate	***
18	Saudi Arabia	Deputy Commander	★★
19	Sri Lanka	Director General Services	★★
20	Thailand	Senior Advisor, Royal Thai Navy	★★★★
21	Turkey	Defence Attache	***
22	UAE	Deputy Commander, UAE Naval Forces	★★
23	United Kingdom	Commanding Officer RNAS Yeovilton	★
24	Vietnam	Deputy Commander	★★
25	India	Defense Attaché	***
26	Japan	Defense Attaché	***

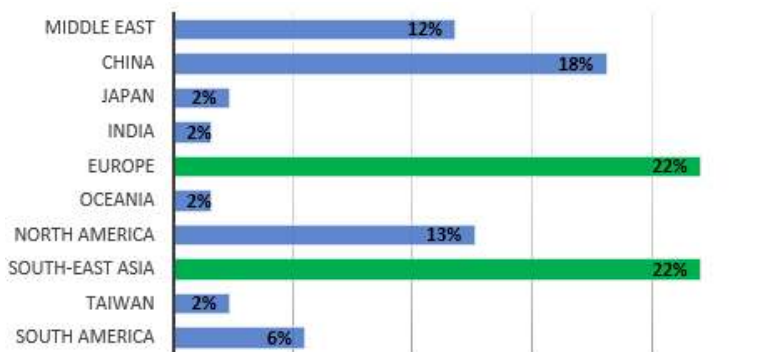
Visitors Profile

No. of Visitors

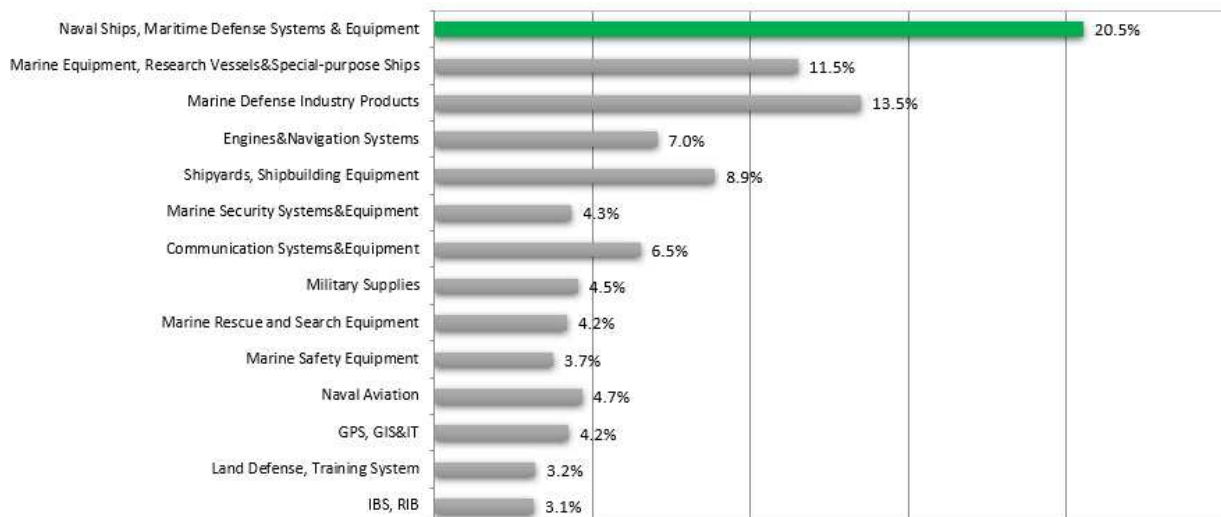
Date	22(Tue.). Oct	23(Wed.), Oct.	24(Thu.), Oct.	25(Fri.), Oct.	Total
Attend	2,310	3,790	3,274	1,923	11,297
Ratio(%)	20.4	33.6	29.0	17.0	100.0

Overseas Visitors

Country	Ratio(%)
China	18.0
Europe	22.0
India	2.0
Japan	2.0
Middle East	12.0
North America	13.0
Oceania	2.0
South America	6.0
South-East Aisa	22.0
Taiwan	2.0
Total	100.0



Interesting Field of Visitors



03. Programmes

Opening Events

○ Opening Ceremony



Date & Time Oct. 22(Tue.), 2019 / 10:00 ~ 11:30

Venue Exhibition Center II Square

○ Welcoming Luncheon



Date & Time Oct. 22(Tue.), 2019 / 11:30 ~ 13:00

Venue Rm. 104 ~ 105, Convention Hall, Exhibition Center I

Business Meeting with Overseas Navy Delegations



Date & Time Oct. 22(Tue.)~24(Thu.), 2019 / 13:30~17:00
Venue Business Meeting Room in the Exhibition Hall
Scale Business Contact 176 Cases
 Inviting 80 Overseas Navy Delegations from 26 Countries

Reception



Date & Time Oct. 24(Thu.), 2019 / 17:30 ~ 20:00
Venue Grand Ballroom 2F, Paradise Hotel, Busan, Korea
Organizer ROK Navy (Chief of Naval Operations)
Attendee Korea Navy, Overseas Navy Delegations, Exhibitors(Invitation Only)

☐ Naval Ship Technology & Weapon System Seminar



Organizer ROK Navy Chief of Naval Operations, Agency for Defense Development
Society of Naval Architects of Korea

- Part 1. Opening and Guest Lectures [Oct. 23(Wed.), 2019 / Rm. 205, Convention Hall]

Time	Contents
12:00~13:30	Reception
14:00~14:30	Opening Speech CNO Welcoming Speech President of SNAK Congratulatory Speech Minister of DAPA Excellent thesis presenter award CNO
14:30~15:30	Keynote Lecture Directions for developing to realize 'Smart Battleship' Dr. Lee Sungeun, Principal Research Engineer of Marine Technology Research Institute in ADD R&D Status of MASS and Directions for Developing Naval Ship Dr. Seo YongSeok, Program Director of KEIT
15:30~16:00	Break Time
16:00~17:40	Special Lecture Technology development prospect of UAS and ways to apply to naval weapon system Dr. Kang Wang-Gu, Chief of UVARC in KARI Directions for developing Future naval UAS Captain Kim, Section Chief of ROKN force Development Division

- Part 2. Departments Seminar [Oct. 24(Thu.), 2019 / Meeting Room(2F), Bexco Exhibition Center

Time	Venue	Subject
08:40~16:30	Rm. 214	[Dept. 1] Naval Ship design & construction/ Operation & Maintenance/Acquisition
08:40~16:30	Rm. 215	[Dept. 2] Integrated survivability/Damage control/ Special performance
08:40~16:50	Rm. 216	[Dept. 3] Embarkation Sys./Combat Sys./ Equipment technology
08:40~12:10	Rm. 217	[Dept. 4] Naval Weapon Sys./Naval UAS
13:00~16:50		[Dept. 4] 4th Industrial Revolution
09:00~11:50	Rm. 218	[Planned Session] Stealth
13:00~16:30		[International Session] Introduction of Strategy for Domestic & Foreign Industry, Weapon System in Development

Technical Seminar

Date & Time Oct. 22(Tue.) ~ 23(Wed.), 2019

Venue Meeting Room(2F), Bexco Exhibition Center

Date	Time	Venue	Subject	Company
10. 22	13:00~13:50	Rm. 214	Maritime Satellite Communication Product Introduce	COBHAM SATCOM
10. 23	11:00~12:00	Rm. 214	Integrated Full Electric Propulsion System	GE
	14:00~15:00	Rm. 216	Trends of Maritime Commercial Satellite Communications	Intellian Technologies (Defense & Government Team)

Open-ship to Public



Date & Time Oct. 22(Tue.) ~ 25(Fri.), 2019 / 13:30 ~ 17:00

Venue CRF Naval Base, Busan, Korea

Performance of ROKN Band & Guard of Honor



Date & Time Oct. 22(Tue.) ~ 25(Fri.), 2019 / 13:30 ~ 14:00

24(Thu.) / 14:00 ~ 15:00

Venue Exhibition Center I Square

04. Media Report

○ Oct. 22(Tue.), 2019 / Koreatimes

한국일보 

'부산국제조선해양대제전' 개막

기사입력 2019-10-22 13:33



'2019 부산국제조선해양대제전'이 개막한 22일 오전 부산 해운대구 벡스코 제1전시장 LIG넥스원 부스에서 방문객들이 수상함 및 잠수함에 탑재되는 각종 유도무기 등을 살펴보고 있다. 25일까지 진행되는 이번 행사는 '국제 조선 및 해양산업전(KORMARINE)'과 '국제해양방위산업전(MADEX)', '국제 항만·물류 및 해양환경산업전(SEA-PORT)' 3개 전시로 열린다. 전해원 기자 iamjhw@hankookilbo.com

------(omit)-----

Original Article : [click](#)

○ Oct. 17(Thu.), 2019 / The Korea Defense Daily

국방일보

프린트

[MADEX] 확대되는 해양방위산업 첨단 해군 미래와 마주하다

기사입력 2019. 10. 17 17:49

2019 MADEX 미리 보는 국제해양방위산업전

11개국 160여 개 주요 방위산업체 참여
 최첨단 함정 무기체계·해양방위 시스템 등 전시
 26개국 외국군 대표단·국방전문가 방문
 '수출 상담회' 등 실질 비즈니스 가교 역할
 군악대 연주·의장대 시범·체험부스 등 운영
 오는 22~25일까지 부산 일대서 개최



----- (omit) -----

Original Article : [click](#)

○ Oct. 24(Thu.), 2019 / The Central Times

NAVER 뉴스

인쇄하기

취소

중앙일보

국제해양방위산업전 2019에서 선보인 21세기 해군의 주력함들

기사입력 2019-10-24 05:03 최종수정 2019-10-24 08:05



현대중공업이 '국제해양방위산업전(MADEX) 2019' 부스 광고물. 한가운데 경항공모함이 보인다.

25일까지 부산 벡스코(BEXCO)에서 열리는 '국제해양방위산업전(MADEX) 2019'에서 21세기 해군의 주력함들이 속속 대중 앞에 선보이고 있다. 11개국 160여 개 방산업체가 참여하고, 각국 해군참모총장 등 26개국에서 80여 명의 외국군 대표단이 참가한 올해 전시회는 역대 최대 규모다.

국내 방산업체들은 해군이 도입하려고 하는 전투함들에 대한 모형과 그래픽을 준비했다. 대부분 아직 설계도 들어가지 않았기 때문에 업체의 제안이다. 그러나 업체가 나름 철저히 준비한 만큼 단순한 상상은 아니라는 게 방산업계의 평가다.

(omit)

Original Article : [click](#)

○ Oct. 23(Wed.), 2019 / The Segye Times

세계일보

해군 첨단 무기 총출동한 '2019 국제해양방위산업전' 개막

기사입력 2019-10-23 03:03



한화디펜스 부스에 무인사격통제체계를 비롯한 전시물들이 놓여 있다. 한화 제공

한국 해양방위산업을 홍보하고 해외 방산업체와의 교류를 촉진할 2019 국제해양방위산업전 (MADEX)이 22일 부산 벡스코에서 개막했다.

올해로 11회째를 맞는 MADEX는 25일까지 나흘간 진행된다. 이번 전시회에는 11개국 160개 해양 방산업체들이 참여해 최첨단 함정무기체계와 함정-해양방위 시스템, 해양탐사선-특수선, 해양구조-구난장비 등을 선보인다.

한화시스템은 이번 전시회에서 통합마스트, 다기능레이더, 해양무인체계, 수중감시체계 등 차기구축함(KDDX)을 비롯한 미래 스마트 전투함정의 성능을 책임질 첨단 ICT 기술 기반의 최신 플랫폼들을 중점적으로 소개한다. 자체 개발한 무인수상정 아우라(AURA)를 비롯, 자율무인잠수정, 기뢰제거 처리기 등 미래 해양무인시스템도 전시된다. LIG 넥스원도 전투체계와 다기능 능동위상배열레이더 등을 선보인다. 미국 GE는 가스터빈을 비롯한 함정 동력체계를 전시할 예정이다.

------(omit)-----

Original Article : [click](#)

○ Oct. 23(Wed.), 2019 / Newsis

NEWSIS

2019 함정기술·무기체계 세미나

기사입력 2019-10-23 15:49



【서울=뉴시스】이성은 국방과학연구소 박사가 23일 부산 벅스코에서 열린 2019 함정기술·무기체계 세미나에서 '스마트 전투함정(SMART Battleship) 구현을 위한 함정 무기체계 발전방향'에 대한 기초 강연을 하고 있다. 2019.10.23. (사진=해군 제공)

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Original Article : [click](#)

○ Oct. 21(Mon.), 2019 / YONHAP NEWS AGENCY

Int'l maritime defense industry expo kicks off in S. Korea

All Headlines · 10:00 October 22, 2019



SEOUL, Oct. 22 (Yonhap)-- A large-scale maritime defense exhibition opened in South Korea on Tuesday, featuring cutting-edge maritime defense systems from about 160 major defense firms around the world, the Navy said.

The international maritime defense industry exhibition, MADEX 2019, is scheduled to run through Friday at Bexco Exhibition Center in the country's southern city of Busan. The Navy organized the event along with the Busan city government and the Korea International Trade Association.

This year's event brought together some 160 major maritime defense companies from 11 countries to showcase state-of-the-art maritime defense systems, as well as diverse navigation, communication and safety equipment, by setting up around 380 booths to promote their products, according to the Navy.

On the sidelines of the exhibition, various meetings and seminars are planned to be attended by around 80 military leaders and experts from 26 countries, the Navy said, adding that its officers are scheduled to hold bilateral talks with their counterparts from 21 countries.

"The event is expected to serve as a chance for business entities to actively promote their products and for defense officials to boost maritime security cooperation with partner nations," a Navy officer said.

"Around 180 rounds of business meetings are expected to take place during the exhibition, which would lead to our defense exports worth US\$300 million," he added.

The MADEX defense fair was launched in 2001 and has been held biennially.

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Issue Keywords


- #cost-sharing talks
- #football
- #Moon Jae-in
- #US negotiator
- #Baduk

- [2nd LD] Top U.S. negotiator says U.S. 'not focused on' initial \$5 billion demand anymore


- [LEAD] Hong Kong fans boo Chinese anthem before men's football match in S. Korea


- [LEAD] Moon to hold summit with Xi next week amid stalled N.K. nuke talks


- [LEAD] Top U.S. negotiator says U.S. 'not focused on' initial \$5 billion demand anymore



○ Oct. 22(Tue.), 2019 / Naval news



LIG Nex1's new Sea Sword II variant at MADEX 2019

MADEX 2019: Sea Sword II Combat USV Unveiled By LIG Nex1

At MADEX 2019 naval exhibition in Busan, South Korea, LIG Nex1 is showcasing for the first time a longer and more capable version of the Sea Sword combat Unmanned Surface Vehicle (USV).

👤 Nathan Gain 🕒 22 Oct 2019

At MADEX 2019 naval exhibition in Busan, South Korea, LIG Nex1 is showcasing for the first time a longer and more capable version of the Sea Sword combat Unmanned Surface Vehicle (USV).

While the Sea Sword I has a length of 9 meters and has been designed for the ROK Coast Guard, the 12 meters long Sea Sword II is being developed to meet specific needs of the ROK Navy for a more powerful and armed USV.

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Original Article : [click](#)

○ Oct. 24(Thu.), 2019 / IHS Jane's

MADEX 2019: Integrated mast options emerge for Korea's KDDX

Manash Pratim Boruah, Busan - Jane's Navy International

23 October 2019

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Models of two new integrated mast designs for South Korea's Next-Generation Destroyer (KDDX) programme were shown by LIG Nex1 and Hanwha Defense at the MADEX show in Busan.

The separately developed designs incorporate a range of sensors - most prominently fixed X- and S-band multifunction radar arrays (MFRs) - and communications, electronic support measures, and electronic countermeasure system antennas within an enclosed mast structure.

Hanwha's design is an evolution of the integrated mast developed for the Republic of Korea Navy's (RoKN's) FFX Batch III frigate programme, while LIG Nex1's version is a clean sheet design.

Both MFR designs are based on Gallium Nitride (GaN) technologies, with LIG Nex1's using "GaN on Diamond" high electron mobility transistors.

Want to read more? For analysis on this article and access to all our insight content, please enquire about our subscription options at ihsmarkit.com/janes



The LIG Nex1 integrated mast design concept on show at MADEX 2019 in Busan, Korea. (IHS Markit/M Boruah)

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Original Article : [click](#)

Related Jane's Products

[Jane's Defence: C4ISR & Mission Systems](#) [↗](#)

[Jane's C4ISR & Mission Systems: Maritime](#) [↗](#)

[Jane's Navy International](#) [↗](#)

05. Exhibitors List & Booth Layout

(Including SEA-PORT 2019)

A&T KOREA LTD.	GENERAL DYNAMICS MISSION SYSTEMS
ATLAS ELEKTRONIK GMBH	GROUND.CO., LTD.
ATLAS NAVAL ENGINEERING COMPANY KOREA	GYERYONG WORLD MILITARY EXPO 2020
ATX CO., LTD.	HANWHA AEROSPACE CO., LTD.
AXON CABLE S.A.S	HANWHA DEFENSEE
BABCOCK INTERNATIONAL GROUP	HANWHA SYSTEMS
BAY INDUSTRIAL	HUNGER HYDRAULICS KOREA LTD.
BRAHMOS AEROSPACE	HWAIL CO., LTD.
CHOMDAN INC.	HYDRO PRODUCTS ASIA PTE LTD.
CNFK(COMMANDER NAVAL FORCES KOREA)	HYUNDAI HEAVY INDUSTRIES
CONET SYS CO., LTD.	HYUNDAI SEASALL
CURTISS-WRIGHT	INNOSIMULATION CO., LTD.
DAESUNG IND CO., LTD.	INSUNG INFORMATION CO., LTD.
DAEWOO SHIPBUILDING & MARINE ENGINEERING CO., LTD. (DSME)	INTELLIAN TECHNOLOGIES
DAEYANG ELECTRIC CO., LTD.	IRVINGQ
DEFENSE & SECURITY EXPO KOREA	ISOTTA FRASCHINI MOTORI SPA
DEFENSE TIMES	JAEUN CORPORATION
DEPARTMENT FOR INTERNATIONAL TRADE DEFENCE & SECURITY ORGANISATION(DIT DSO)	JIT CO., LTD.
DONG SUNG SILICONE CO., LTD	JUYOUNG INDUSTRY CO., LTD.
DOOWON HEAVY INDUSTRIAL CO., LTD..	KODUCT CO., LTD.
DT&C CO., LTD.	KOREA AEROSPACE INDUSTRIES, LTD.
EASAT RADAR SYSTEMS LTD.	KOREA COAST GUARD
ECA GROUP	KOREA COMPOSITE CO., LTD.
ELECTRIX	KOREA DEFENSE INDUSTRY ASSOCIATION
ENVIRONICS	KOREA MARINE CORPS
ETIENNE LACROIX GROUP	KOREA NAVY
FOCUS OPTECH	KOREA SPECIAL BATTERY CO., LTD.
GE MARINE	LACROIX

(Including SEA-PORT 2019)

LEONARDO	RTBP ALLIANCE INC.
LGM CO., LTD.	SAFRAN ELECTRONICS & DEFENSE
LIG NEX1	SAMTRA INTERNATIONAL
LOCKHEED MARTIN	SD CORPORATION
LOGFRET KOREA LTD.	SEASTEMA
MARINE INNOTECH CO., LTD.	SESUN INC
MARINE SAFETY MEKA CO., LTD.	SOGENA (EURONAVAL 2020)
MARINEWORKS CO., LTD.	SONARTECH CO., LTD.
MARITIME TECHNOLOGY RESEARCH INSTITUTE(MTRI) OF AGENCY FOR DEFENSE DEVELOPMENT(ADD)	SONG WON TRADING CO., LTD.
METRAVIB DEFENCE	SPACE CO., LTD.
MJP (Marine Jet Power)	SRC CO., LTD.
MOOG FOCAL	SUNGSHIN ENSTEC CO., LTD.
MOOG INC.	SUWON FIBER CONTAINER CO., LTD.
MTS MEDIA CO.	T.S TECH. CO., LTD.
MTU ASIA PTE LTD.	TECHSAN-ENG CO., LTD.
NAIAD DYNAMICS US, INC.	THALES
NAVAL NEWS	TURN-ON ELECTRONICS CO., LTD.
NORTHROP GRUMMAN	ULTRA ELECTRONICS
OCEANTECH CO., LTD.	UNISTA & STADT
ODU GMBH & CO. KG	VADATECH
ONETECH CORP.	VESTDAVIT AS
P AND P COMPONENTS CO., LTD.	VICTEK CO., LTD.
POONGSAN CORPORATION	WATERJEL KOREA
PSIONDSP	WOORI OCEANTECH
RAYTHEON COMPANY	X-BEAM TECH CO., LTD.
RELIABILITY SOLUTION PROVIDER	YEONHAB CO., LTD.
ROLLS-ROYCE PLC	YOUNGPOONG ELECTRONICS CO., LTD.

06. Booth Layout

