

INTRODUCTION

■ **META DIFAR Sonobuoy was**

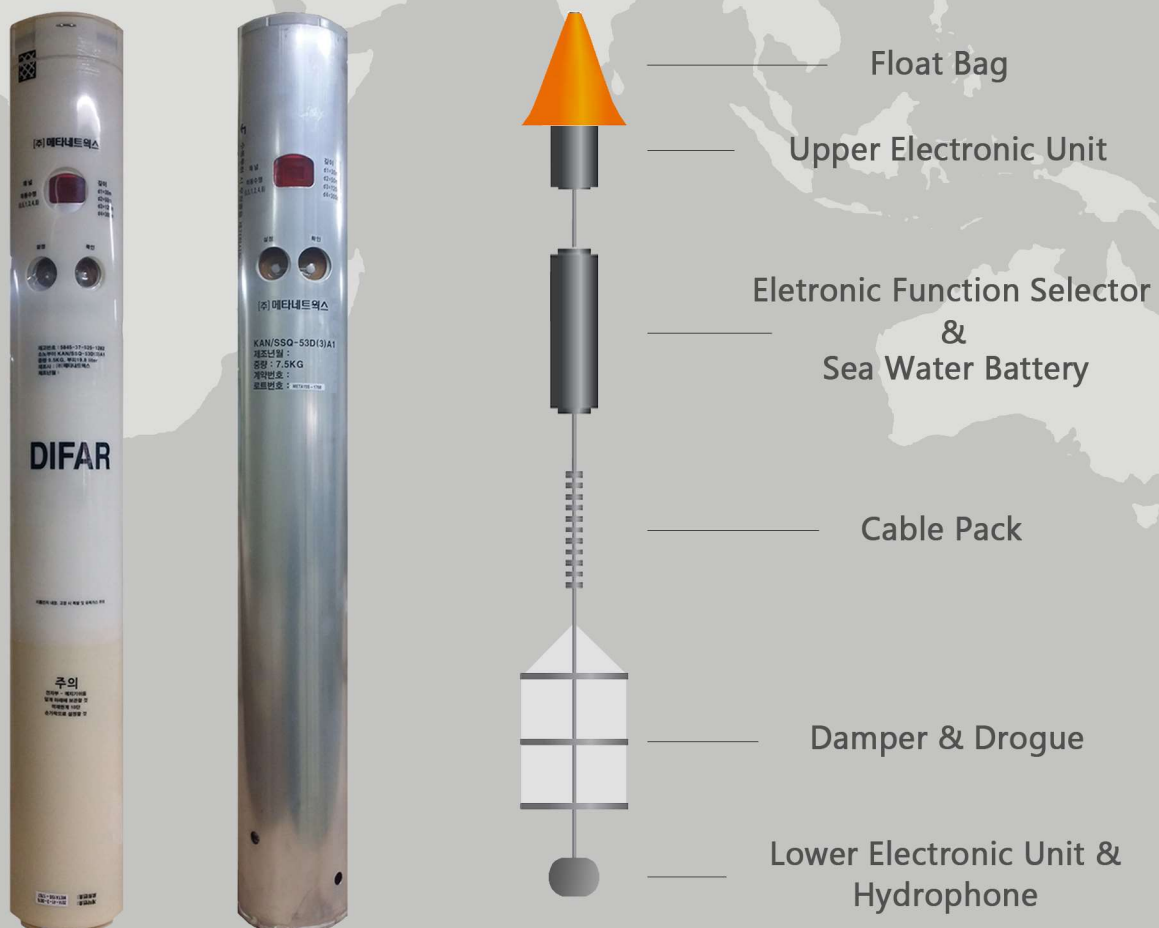
- Developed for Warship & MPA, Helo in ASW ops
- R&D Certificate from Korea MND in 2012

■ **Same as SSQ-53D(3) Performance with AGC Function**

■ **Core Technologies : Acoustic Sensor, Signal Processing, etc**

■ **Advantage : Various Option**

- Single Product : Sonobuoy
- Package : Ship Application System (+Training)
- Core Technology Transfer



SPECIFICATIONS

GENERAL DESCRIPTION

Description	DIFAR, passive, directional
Function	Search, localization, surveillance
Dimensions	36.00 in (914 mm) long by 4.875 in (124 mm) diameter
Weight	7.2 kg
Power Source	Seawater activated battery (main power source) Lithium battery (EFS display and memory)
Stabilization Time (after splash)	Up to 100 seconds (shallow) 130 seconds (medium 1) 160 seconds (medium 2) 240 seconds (deep)
Operating Life	0.5, 1, 2, 4, or 8 hours preselectable
Scuttling Time	At 8 hours, regardless of operating life
Shelf Life	5 years in sealed container
Unpacked Storage Life(minimum)	90 days

SENSOR CHARACTERISTICS

Acoustic Frequency	5–2400 Hz Range
Sensitivity, Directional	122 ± 3 dB rel 1 μPa at 100 Hz = 40kHz pk dev
Sensitivity	122 ± 3 dB rel 1 μPa at
Omnidirectional	100 Hz = 25 kHz pk dev
Operating Depth	30 metres, 50 metres, 120 metres, and 300 metres preselectable
Descent time (in water)	40 seconds (shallow) 65 seconds (medium 1) 100 seconds (medium 2) 180 seconds (deep)

TRANSMITTER CHARACTERISTICS

Frequency Range	136 MHz to 173.5 MHz
Transmission Channels	99 preselectable, with EFS display
Transmitter RF Power	1 W minimum

Sonobuoy Application for ship

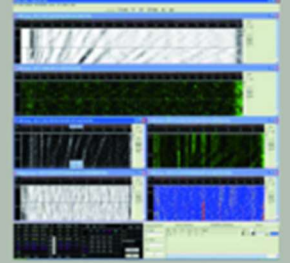
META Sonobuoy & Integrated Mission System



Support a Acoustic Signal Analysis Training



Mission System (Analysis S/W) Upgrade



Why META Sonobuoy & Application for Ship?

■ **The Best Cost-effectiveness**

- “You can protect the territorial seas with minimum cost.”

■ **High Performance**

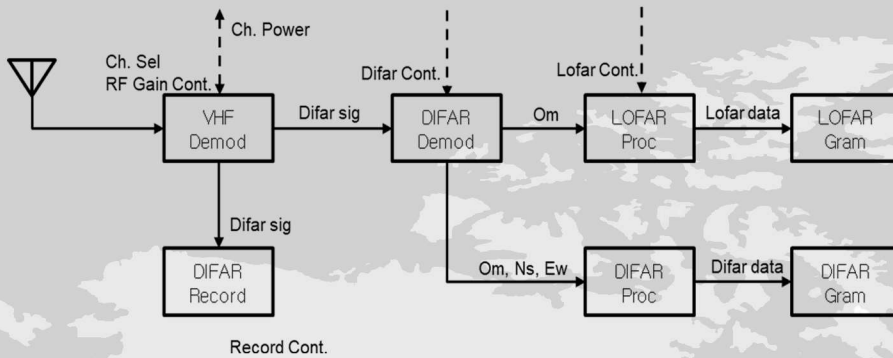
- “Equivalent to the world's best sonobuoy.”

■ **Satisfy the Customer Needs**

- “We can produce customized sonobuoy [depth control, etc].”

META Integrated Mission Systems

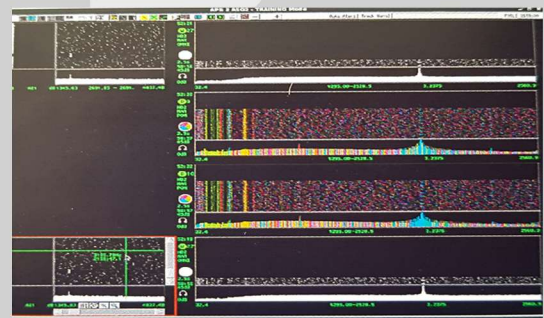
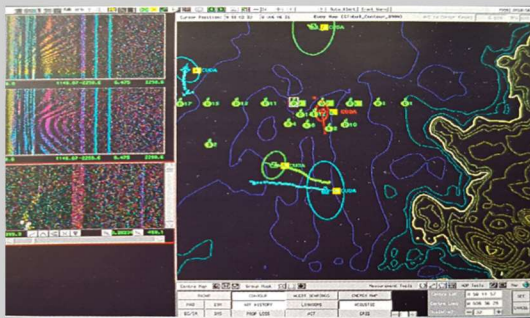
SYSTEM COMPOSITION



Major Feature & Advantage

- **Sonobuoy Can be Operate on Warship without any Modifications**
- **RADAR, EO/IR Information Input & Management available**
- **Easy to Decoding and Operation**
- **Acoustic Training Support Available**

Composite Display Mode



- Total Information Management
 - Ship Sensor & Sonobuoy
- Multi Function Display Panel
- Easy to Identify Color Screen
- DIFAR, LOFAR, ALI Function
- Max 8 buoy monitor (can be expanded)
- A Signal of Interests Zoom-in, Saving Data & Replay, etc



META-NETWORKS,

META-NETWORKS CREATE AND DELIVERS
HIGH TECHNOLOGY ASW SOLUTION FOR NAVY

THAT OPERATE UNDER CHALLENGING CONDITIONS
- ON THE OCEANS, IN THE UNDERWATER, IN DEFENCE

META DIFAR SONOBUOY & APPLICATION FOR SHIP,
WILL DEFEND YOUR COUNTRY FROM THE THREAT
OF SUBMARINES !