

安昌企業股份有限公司  
安記有限公司

Attendee :

*Mr. Daniel Hsieh*

## FURUNO COMPANY OUTLINE

Since commercializing the world's first fish finder in 1948, FURUNO has supplied many types of products for the marine electronics market. By using its exclusive ultrasonic and electronics technologies, FURUNO has developed various types of products that were the first in Japan or the world to offer particular functions or capabilities.

As of Feb 29, 2020



<b>Company Name</b>	FURUNO ELECTRIC CO., LTD.
<b>Headquarters</b>	Nishinomiya City, Hyogo, Japan
<b>Incorporated</b>	May 23, 1951
<b>Business</b>	Manufacture and sale of maritime and industrial electronic products
<b>Paid-in Capital</b>	¥7,534 million
<b>Number of Employees (Consolidated)</b>	2,926
<b>Consolidated Sales</b>	¥83,066 million
<b>President</b>	Yukio Furuno

# FURUNO MARITIME PRODUCT


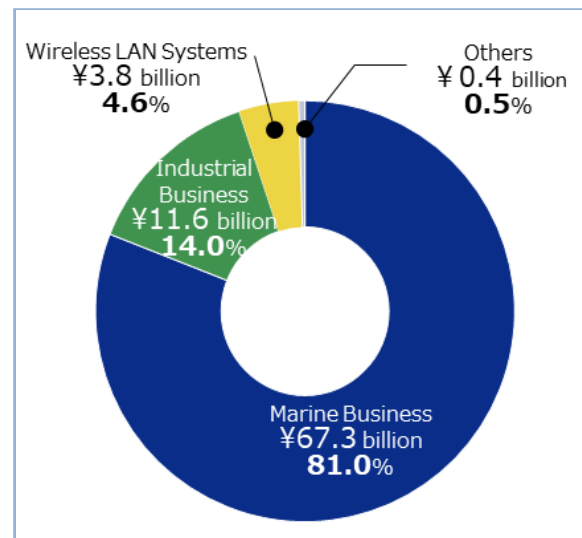
**Communication**

- VHF : for short range
- MF/HF : for middle range
- Inmarsat-C : for long range
- Inmarsat-FB VSAT : for business and welfare
- NAVTEX : for warnings and forecasts

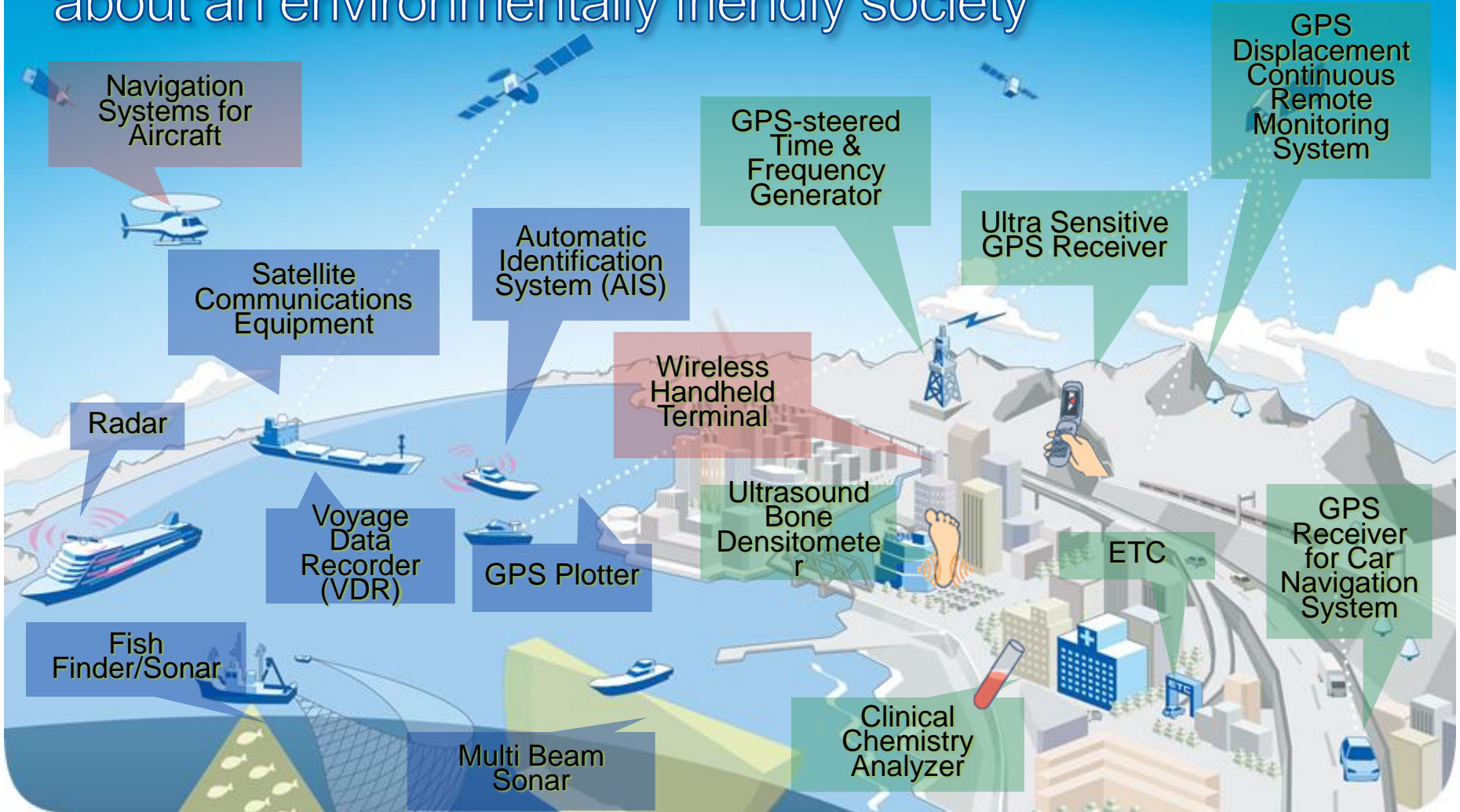


**Navigation**

- Radar : for object detection
- ECDIS : for route Planning
- GPS/GNSS : for positioning
- Echo Sounder : for water depth measurement
- Speed Log : for speed measurement
- AIS : for self-introduction and monitoring others
- VDR : for evidence for accident investigation
- BNWAS : for watch keeping

# Achieving better safety and peace of mind to bring about an environmentally friendly society



# FURUNO GLOBAL NETWORK

Domestic 8 offices  
Overseas 30 subsidiaries  
Distributors in 83 countries  
As of March 1, 2017



- Subsidiaries and representative offices
- Service centers
- National distributors

## Furuno Annual Training



# COMPANY PROFILE

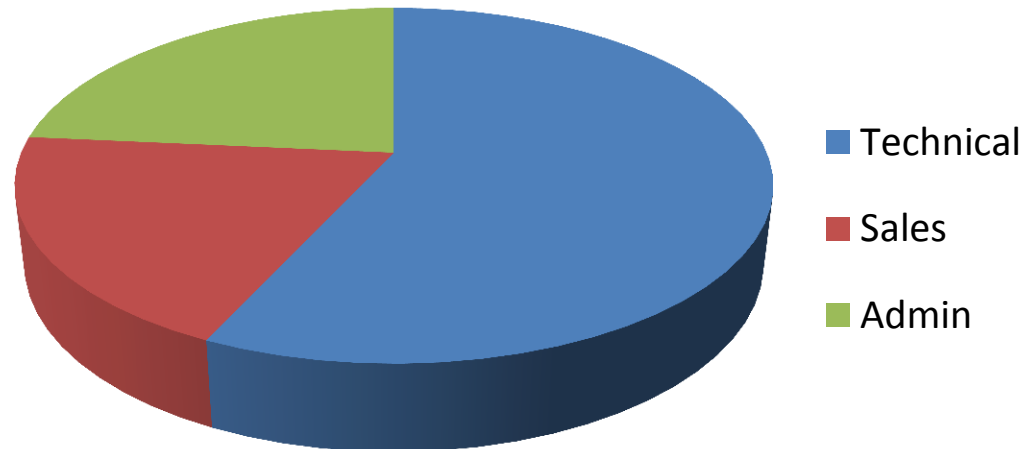
- Anchang Brothers Co., Ltd.
  - Established in year 1981

**Class Approval**  
NK/ABS/BV/CR



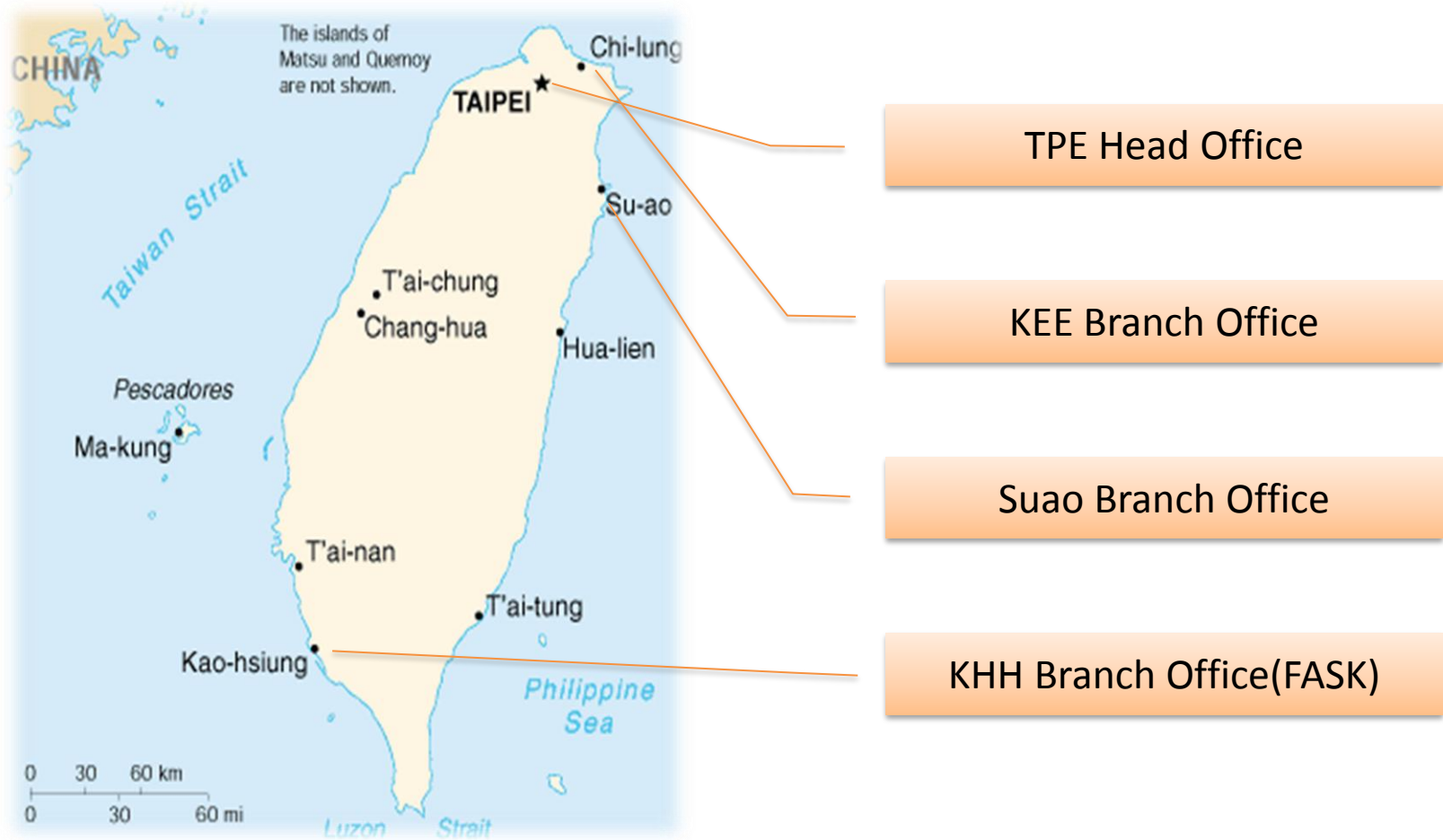
- Andritz Company Ltd. (*Subsidiary Company of Anchang Brothers*)
  - Established in year 1987

**Anchang Brothers & Andritz Company**





# BRANCH OFFICE






# BRANCH OFFICE



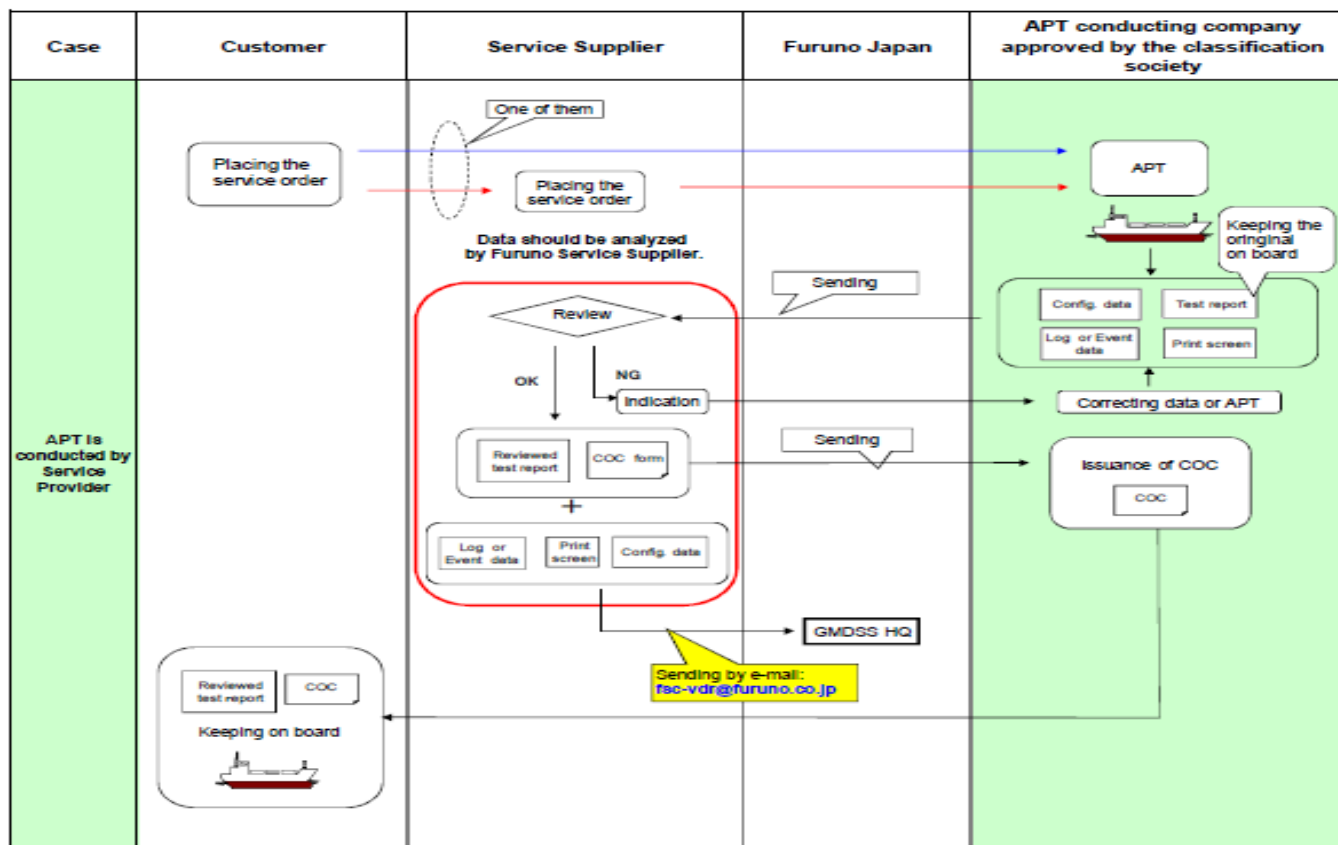


# FURUNO VDR MODEL

VDR MODEL	 <b>VR-5000</b>	 <b>VR-3000</b>	 <b>VR-7000</b>
<b>Recording Medium</b>	DCU(Long Term) DRU(Fixed)	DCU(Long Term) DRU(Fixed)	DCU(Long Term) DRU(Fixed) FFDRU(Float-Free)
<b>Recording Time</b>	DCU(12hrs) DRU(12hrs)	DCU(48hrs) DRU(12hrs)	DCU(720hrs) DRU(48hrs) FFDRU(48hrs)
<b>IMO/IEC Regulation</b>	IMO A.861(20) & A.694(17) IEC 61996 Ed. 1 IEC 60945 Ed. 4 IEC 61162-1 Ed. 2	IMO MSC.214(81) & 191(79) IMO A.694(17) & A.861(20) IEC 61996-1 Ed. 1 & 60945 Ed. 4 IEC 61162-1 Ed. 4 & 61162-2 Ed. 1 IEC 62288 Ed.1	IMO MSC.36(63) & 97(73) IMO MSC.191(79) & 302(87) IMO MSC.333(90) IMO A.694(17) IEC61996-1Ed.2 & 61162-1 Ed. 5 IEC61162-2 Ed.1.....etc.

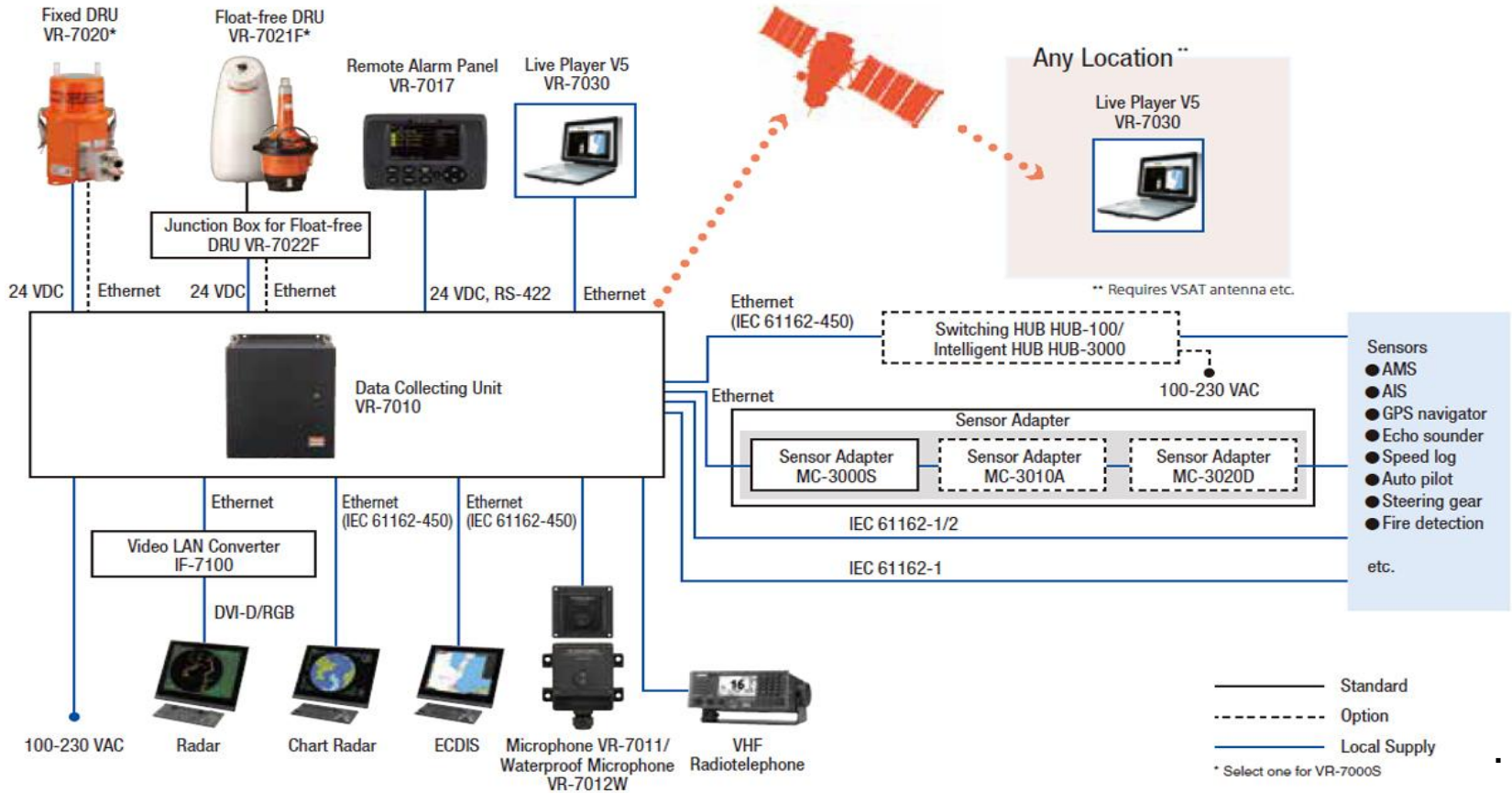
# VDR ANNUAL PERFORMANCE TEST & COC

FLOW CHART OF THE MANUFACTURER'S ANALYSIS FOR ANNUAL PERFORMANCE TEST OF VDR/S-VDR





# VDR INTERCONNECTION DIAGRAM



**Thank You**