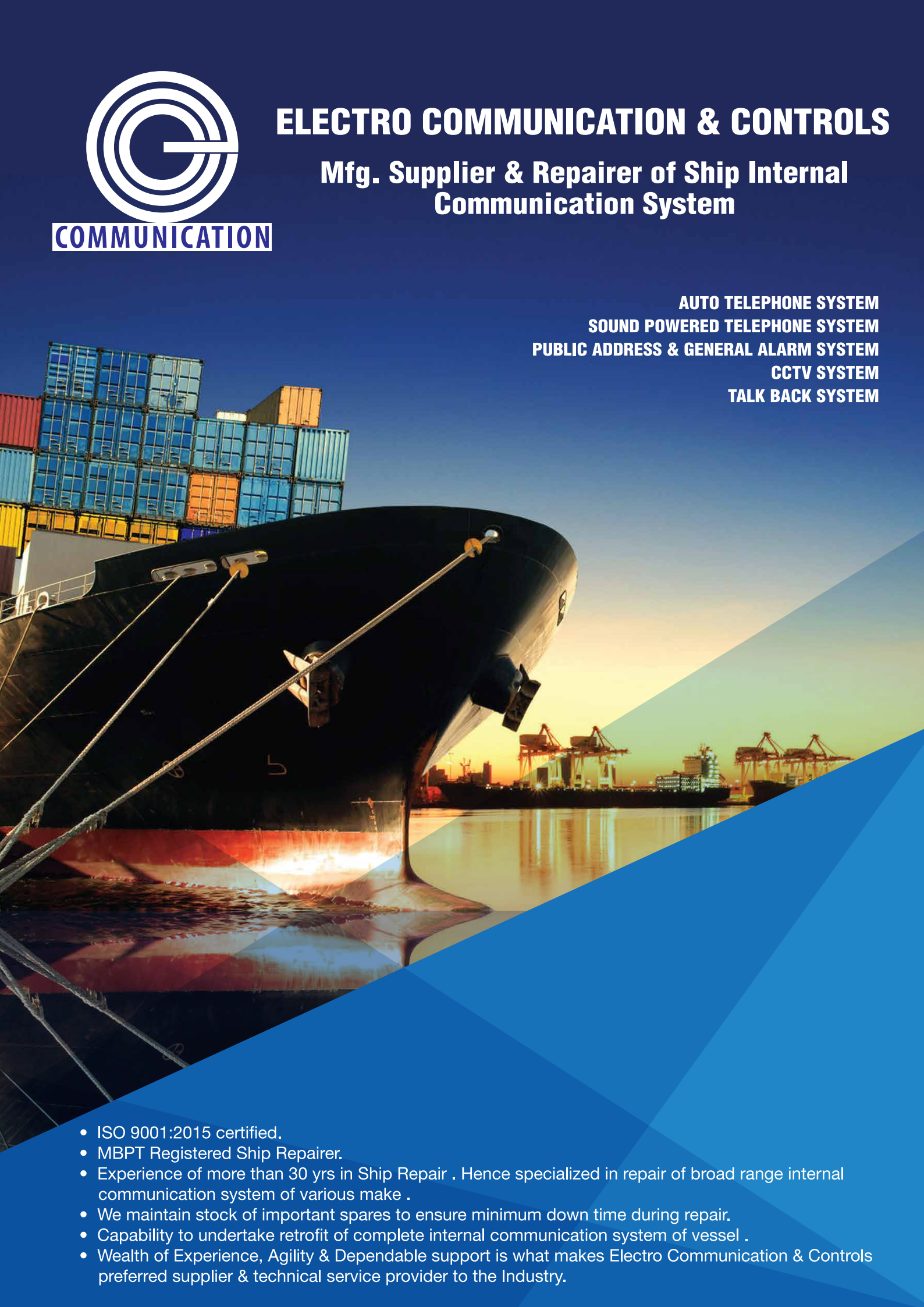# ELECTRO COMMUNICATION & CONTROLS

Mfg. Supplier & Repairer of Ship Internal Communication System

COMMUNICATION

AUTO TELEPHONE SYSTEM
SOUND POWERED TELEPHONE SYSTEM
PUBLIC ADDRESS & GENERAL ALARM SYSTEM
CCTV SYSTEM
TALK BACK SYSTEM

- ISO 9001:2015 certified.
- MBPT Registered Ship Repairer.
- Experience of more than 30 yrs in Ship Repair . Hence specialized in repair of broad range internal communication system of elarious make .
- We maintain stock of important spares to ensure minimum down time during repair.
- Capability to undertake retrofit of complete internal communication system of vessel .
- Wealth of Experience, Agility & Dependable support is what makes Electro Communication & Controls preferred supplier & technical service provider to the Industry.
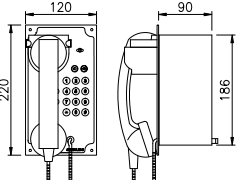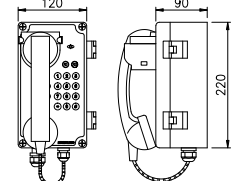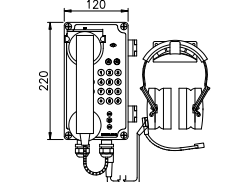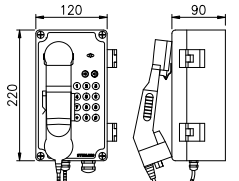
AUTO TELEPHONE SYSTEM

Auto Telephone System provides a means of inter communication between various location on the vessel and between vessel and the shore. This system is compatible for interface with Public Address & Inmarsat.

Technical Specification for Auto Telephone Exchange :

Auto Telephone Exhange	Specification		Model No.	No. Of Extentions	Expansion Step	Paging Interface	Priority Intrusion	INMARSAT & Shore line Interface
	Technology	Micro Controller	ATS-16	16	8	✓	✓	✓
	Insertion Loss	Less than 1 db						
	Trunk Loop Resistance	200 Ohms	ATS-40	40	8	✓	✓	✓
	Crosstalk	Better than 70 db						
	Input Power	AC 230V & DC 24V	ATS-96 -MB	96	8	✓	✓	✓
	Power Consumption	50 watt Max.						
	Extn. Voltage	48 V DC	ATS-96 -MBDB	96	8	✓	✓	✓
	Cabling	Single pair						

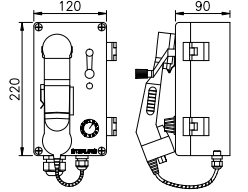### Type, Features & Technical Specification for Auto Telephones :
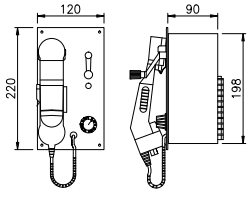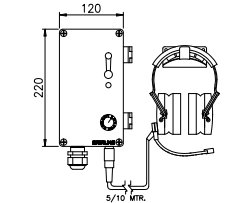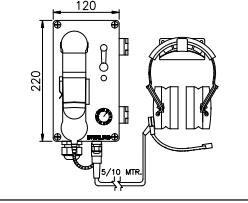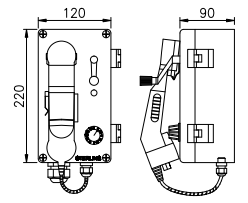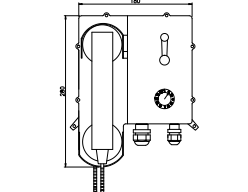
Type	Model No.	Installation Area	Ring & Line In use LED	Keypad Backlit	Handset	Headset	Built In Alarm Relay	Weather Proof	Enclosure Material	Weight in (Kgs)	Dimension
Panel Mount - Auto	ATS-201-A	WHEEL HOUSE	✓	✓	✓	x	x	IP20	SS	2.5	
	ATS-201-B	ECR, MCR	✓	x	✓	x	✓	IP20	SS	2.75	
	ATS-201-C	CCR	✓	x	✓	x	x	IP20	SS	2.5	
Bulkhead Mount with Handset	ATS-202-A	Mess Room, Reception Area, Cabins, Radio Room	✓	x	✓	x	x	IP40	GFRP	3.0	
	ATS-202-B	Workshop, Mud Room, DCHQ, LSO	✓	x	✓	x	✓	IP40	GFRP	3.25	
Bulkhead Mount with Handset & Headset	ATS-203-A	Noise Areas : E/R, Steering, BT, Em'cy Gen., Cement Rm, AMR, ASP, Crane. With 5/10 mtr cord & Noise Cancelling mic/headset	✓	x	✓	✓	x	IP20	GFRP	3.5	
	ATS-203-B		✓	x	✓	✓	✓	IP20	GFRP	3.75	
Bulkhead Mount Weather Proof	ATS-203-C	Main Deck, Galley, Gangway, Forecastle, Quarter Deck, Helo Hanger	✓	x	✓	✓	x	IP56	GFRP	3.0	

Note : Portable & Ex model also available.

SOUND POWERED (BATTERY LESS) TELEPHONE SYSTEM

The Sound Powered Telephone System is an emergency communication system used mainly during emergency on ship when primary communication system fails. These telephones do not require any external source of electric power for its operation. The call signal & power is generated by magneto generator.

Type, Features & Technical Specification for Sound Powered Telephones :

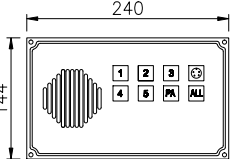| Type	Model No.	Installation Area	Configuration 1:1 & 1 : 12	Incoming call Indicator	Handset	Headset	Built In Alarm Relay	Weather Proof	Enclosure Material	Weight in (Kgs)	Dimension
Panel Mount – SPT	SPT-101-A	WHEEL HOUSE, CCR	✓	✓	✓	x	x	IP20	SS	2.5	
Panel Mount – SPT	SPT-101-B	ECR , MCR	✓	✓	✓	x	✓	IP20	SS	2.75	
Bulkhead Mount – SPT	SPT-102-A	Cabin, Offices, Radio room	✓	✓	✓	x	x	IP40	Al Si 12	3.0	
Bulkhead Mount – SPT	SPT-102-B	Main Deck, Quarter Deck , Helo Hanger, Gen. Room, Fore Castle	✓	✓	✓	x	x	IP56	GRFP	3.25	
Bulkhead Mount with Headgear Set – SPT	SPT-103-C	Noise Areas : E/R, Steering, BT, Em'cy Gen., Cement Rm, AMR, ASP, Crane. With 5/10 mtr cord & Noise Cancelling mic/headset	✓	✓	x	✓	x	IP40	Al Si 12	3.0	
Bulkhead Mount with Headgear Set – SPT	SPT-103-D		✓	✓	x	✓	✓	IP40	Al Si 12	3.25	
Bulkhead Mount with Handset and Headgear Set – SPT	SPT-103-A	Noise Areas : E/R, Steering, BT, Em'cy Gen., Cement Rm, AMR, ASP, Crane. With 5/10 mtr cord & Noise Cancelling mic/headset	✓	✓	✓	✓	x	IP40	Al Si 12	3.5	
Bulkhead Mount with Handset and Headgear Set – SPT	SPT-103-B		✓	✓	✓	✓	✓	IP44	Al Si 12	3.75	
Bulkhead Mount Weather Proof – SPT	SPT-102-D	WHEEL HOUSE, MCR, Engine Room, Cabin, Radio Room, DCHQ, LSO	24 Line	✓	✓	x	x	IP40	Al Si 12 GFRP	3.5	
Designed for Coast Guard – SPT	SPT-104-A	WHEEL HOUSE, MCR, Engine Room, Cabin, Radio Room, DCHQ, LSO	✓	x	✓	x	x	x	Al	8	

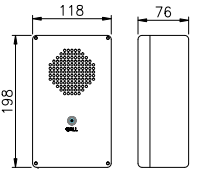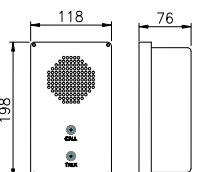**Note : Portable & Ex model also available.**
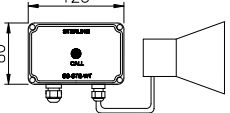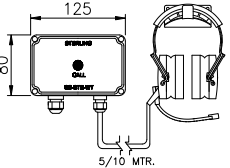
TALKBACK SYSTEM

The Talkback System provides transmission of orders and information between Main Station & Substation . The communication is Half duplex. The selection of station is provided from Main Stations only.

Types, Features & Technical Specification for Talkback System:
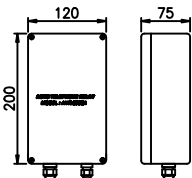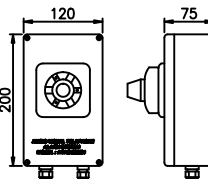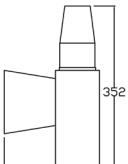
Type	Model No.	Installation Area	Max No. of Stations	Interface for PA	All Call	Mic Handheld / Gooseneck	Input Power (DC)	Keypad Backlit	Remote Mic & Speaker Con.	IP Grade	Material	Weight in (Kgs)	Dimension
Talkback Main Unit	TBS-300-A	W/H, Sat / Air Dive Control Station ECR	16	✓	✓	✓	24V & 2A	✓	✓	IP20	SS	5	240 × 144

Type, Features & Technical Specification for Talkback Station :

Type	Model No.	Installation Area	Call Switch	Talk Switch	Speaker 0/p Power(W)	Handheld Mic	Headset w/5mtr cord	Built In Alarm Relay	Noise Cancelling	IP Grade	Material	Weight in (Kgs)	Dimension
Bulkhead Mount Outdoor Unit With Horn Speaker- TB	TBS-301-A	Fwd, Aft, Anchor Winch, Life boat Station, Muster Deck	✓	x	15W	x	x	x	x	IP 55	Al Si 12	1.5	125 × 80
	TBS-301-B		✓	x	15W	✓	x	x	x	IP 44	Al Si 12	1.5	
Bulkhead Mount With Headset - TB	TBS-302-A	E/R, Cement Room, BT Room, Steering Room	✓	x	0.5W	x	✓	✓	✓	IP 40	Al Si 12	2.5	125 × 80, 5/10 MTR.
Panel Mounted Indoor –TB	TBS-303-A	Cabin, Radio Room, Passages, ECR console	✓	x	6W	x	x	x	x	IP 40	ABS	1.0	118 × 76 × 198
	TBS-303-B		✓	x	6W	✓	x	x	x	IP 40	ABS	1.0	
Bulkhead Mount Indoor Station - TB	TBS-304-A	Cabin, Passage, Mess Room	✓	✓	6W	x	x	x	x	IP 40	ABS	1.0	118 × 76 × 198
	TBS-304-B		✓	✓	6W	✓	x	x	x	IP 40	ABS	1.0	

AUDIO VISUAL ALARM SYSTEM FOR CALL SIGNALING IN NOISY AREA

Type, Features & Technical Specification for Audio Visual Alarm System

Type	Interface System	Model No.	Installation Area	Ext Rot.light & Sounder Connection	Audio Visual Beacon	Input Power (AC)	Input Power (DC)	Weight in (Kgs)	Out Put	Dimension
Audio Visual Alarm Relay	Auto Telephone Sound Powered Telephone Talkback	AVR-230	Engine Room & ECR	✓	x	230	x	1.0	10A	120 75 200
		AVR-24	Engine Room & ECR	✓	x	x	24	1.0	20A	
		AVR-24/230-WT	Exposed Area	✓	x	230	24	1.0	10A	
Audio Visual Alarm System	Auto Telephone Sound Powered Telephone Talkback	AVAS-230	Steering, BT Em'cy Gen., Cement Rm., AMR, ASP, Crane	x	✓	230	x	1.25	95 db	120 75 200
		AVAS-24		x	✓	x	24	1.25	95 db	
		AVAS-24/230-WT	Exposed Area	x	✓	230	24	1.5	100 db	
Audio Visual Alarm System	Auto Telephone Sound Powered Telephone C.B.TEL.	AVA-501-A	Machinery Space, E/R	✓	✓	230	x	0.7	120 db	352 195
		AVA-501-B	Machinery Space, E/R	✓	✓	x	24	0.7	120 db	

Note : Ex model also available.

PUBLIC ADDRESS (MB/SRE) & GENERAL ALARM SYSTEM

The Public Address System provides a means of transmitting general order, information and alarm signals to all areas within the vessel during normal operation and in emergencies.

Public Address System	Key Features	
	Power Output	100 W - 2000 W
	Number of Microphone Input	Max 12
	Number of Remote Controller	Max 4
	Alarm Generator	General & Fire Alarm
	Speaker Zones	08 + All
	Priority Announcement	05 level
	Input Power	AC 230V & DC 24V with auto-switchover

Panels

Mic	Mic	Alarm	Type
PAS - 401	PAS - 402	PAS - 403	Model
Hand Held	Goose Neck		Mic Type
04+All Zone	03+All Zone	GA & FA	Select Keys
W/H, ECR, CCR		W/H, Fire Station	Location
Yes		Yes	Backlit Keys
24V DC			Power
SS		SS	Material

Speaker

TYPE	HORN	WALL	CEILING	WALL	Explosion Proof
LOCATION	Outdoor Area	Cabin & Passages	Cabin & Passages	Bathroom	Hazardous Area
POWER	5/10/15/25/40 W	1.5/3/6 W	1.5/3/6 W	10 W	15/25W
MATERIAL	PC/ABS/ALUMINIUM	PC/ABS/Wooden	PC/ABS/Metal	ABS	Aluminum / Polyamide
IP	IP 66			IP 44	IP 66

MARINE CCTV SYSTEM

CCTV system designed for extremely safe area or hazardous area with camera station/housing constructed from 316L ingress protected up to IP66/IP67, varifocal or zoom cameras for use in marine harsh industrial environments ,configured for indoor or outdoor use for process monitoring or surveillance based on flexible analogue or IP system architecture.

Key Features
• 316L stainless steel construction or corrosion resistant aluminum (LM25) stainless steel
• Ultra-low illumination
• 120 dB true WDR
• C5-M, NEMA 4× anti-corrosion standard
• Protection degree: IP66, IP67, IP68.
• Smart tracking, smart detection, EIS, defog
• Models available in Analogue or IP version
• Designed for use in marine & heavy industrial environment.

BNWAS

The purpose of a bridge navigational watch alarm system (BNWAS) is to monitor bridge activity and detect operator disability which could lead to marine accidents. The system monitors the awareness of the Officer of the Watch (OOW) and automatically alerts the Master or another qualified OOW if for any reason the OOW becomes incapable of performing the OOW.s duties.

• Exact compliant with IMO resolution MSC 128(75)
• Applied all marine class type approval & certificate.
• Monitors the watch officer's presence
• Various Interface with Rs 485, NMEA, etc.
• High Reliable Operation (PIR Motion Sensor)
• Applicable to Various Applications using Quad Zone Logic
• Emergency Call Function
• Interface to VDR, Auto-pilot & Ship's Alarm System

OUR SERVICES

Our Strong Growth has been as a result of consistently delivering quality work both on time and on budget while maintaining the class requirement.

AGILITY:
: MBPT Registered Ship Repairer hence faster service delivery.
: We maintain sufficient stock of important spares and products.

: Service Capabilities.

: Average Resolution Time-8hr.

RELIABILITY:
: Trained personal with experience upto 35 yrs in ship repair.
: Capability to undertake complete retrofit of Ship Internal Communication System

VALUE FOR MONEY :
• 98% Issue Resolved in First Visit (First Time Fix).
• Specialized in Repair of all make Internal Communication System.

OUR VALUED CUSTOMERS:

ELECTRO COMMUNICATION & CONTROLS

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