

# CCTV (Closed Circuit Television)

## PRODUCT INFORMATION

### ADVANTAGES

- Promote safety by monitoring a particular place or subject
- Improve security enforcement by CCTV
- Provide safe management for hazardous area without human risk
- Overcome visual limitation by environment and conditions
- Preservation of records for reviews
- Manpower utilization and increased operational efficiency

### CCTV SYSTEM GENERAL

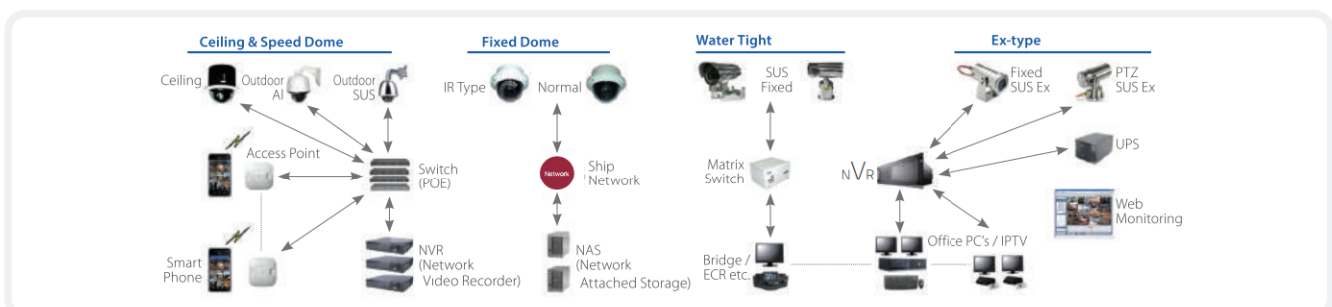
- CCTV System intended for marine and off-shore project is based on a matrix control system. It is a color compatible modular system, which is expandable in steps of 8 camera stations
- The central rack is equipped with hardware to connect 8 camera stations, 2 monitors and 2 keyboards, and is expandable to 16 camera stations, 8 monitors and 4 keyboards

### SYSTEM FEATURES

- The central rack contains the DVR / Matrix and camera power supply. The camera power unit supplies the camera stations with 30 VAC
- The operator, with the keyboard, may select video images from the camera stations and view the images from the camera stations and view the images on the monitor, or cabin rooms via main unit of CAS
- The operator may also control movement of the camera stations with pan & tilt, wipe & wash, and all lens functions with the operator's keyboard

### AVAILABLE SYSTEMFUNCTIONS

- Camera Selector : Any camera in a multi camera system can be selected for control and view on the monitor
- Camera Sequence : Selected cameras in a multi camera system can be set for a sequence to view
- Camera Speed : The "dwell" period, i.e. the time for the particular image of the selected camera to remain on the monitor screen, can be adjusted for the installed camera stations
- Pan/Tilt/Focus/Zoom/Iris : When a camera station has pan, tilt and zoom functions, the operator can remotely control the selected camera station as desired





## PRODUCT INFORMATION

### Main Rack : Configurable

1. NVR : 4CH, 16CH, 32CH, 64CH Cameras
2. Hub Switch : 8/16/24-Port(POE, Power Over Ethernet)
3. UPS (Uninterruptible Power Supply) : 2KVA or Other
4. Monitor, keyboard, Mouse etc. (Optional)
5. FDF (Fiber Distribution Frame) Converter (Optional)
6. LAN Extender (Optional)

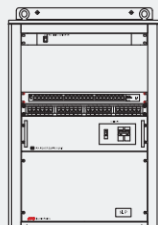
### DVR

1. Up to 64 channels, Supports up to 32 megapixel camera resolution
2. 400Mbps network camera recording
3. Support 4K video out on HDMI monitor
4. Support dual monitor video out
5. H.265, H.264, MJPEG compression
6. WiseStream support
7. Maximum 8 internal HDDs

## Wiring Diagram of CCTV System LAN[P] or Analog Type

NO.	NAME	QTY	REMARK
1	CDU VIDEO WALL (4K UP)	1	
2	BLACK PANEL CONTROL BOARD & MOUSE	1	
3	CDU VIDEO SYSTEM	1	
4	DIAGNOSTIC VIDEO RECORDER	1	
5	CONTROL SERIAL CONVERTER	4	
6	VIDEO WALL UNIT	1	
7	POWER SUPPLY	1	
8	PATCH PANEL	1	
9	VIDEO WALL	1	
10	PATCH PANEL	1	

1	COLOR	6.4P8 2.60.000-DARK BLUE
2	MATERIAL	STEEL
3	WEIGHT	App. 1kg
4	TOLERANCE	± 1



Desk PC



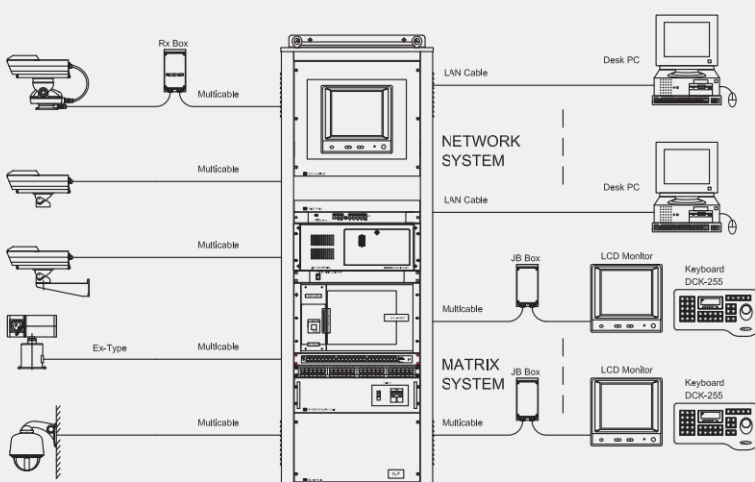
Desk PC



LCD Monitor







Keyboard DCK-255



# Accessories: CCTV

## CAMERA HOUSING

MODEL	MCT-300-FHS	MCT-300-FHW
Housing		
Pan-Tilt	O	O
Wiper	X	O
Fan/Heat	O	O
IR Lamp	Optional	Optional
Resolution(Analog)	1920 × 1080	1920 × 1080
Resolution(IP)	1920 × 1080	1920 × 1080
Focal lenth(Zoom Ratio) Analog	4.44 ~ 142.6mm (Optical 32x)	4.44 ~ 142.6mm (Optical 32x)
Focal lenth(Zoom Ratio) IP	4.44 ~ 142.6mm (Optical 32x)	4.44 ~ 142.6mm (Optical 32x)
Max.Framerate(Analog)	30fps	30fps
Max.Framerate(IP)	60fps	60fps
IP Grade	66/67	66/67
(WxDxH)mm	360×310×368	360×310×368
Material	SUS316L	SUS316L
Colour	SILVER	SILVER
Weight	21kg	21kg
Install Area	OUTSIDE	OUTSIDE

MODEL	MCT-250-FHW	MCT-SPZ-1WEX
Housing		
Pan-Tilt	X	O
Wiper	O	O
Fan/Heat	O	O
IR Lamp	Optional	Optional
Resolution(Analog)	1920 × 1080	1920 × 1080
Resolution (IP)	1920 × 1080	1920 × 1080
Focal lenth(Zoom Ratio) Analog	4mm fixed	4.44 ~ 142.6mm (Optical 32x)
Focal lenth(Zoom Ratio) IP	2.4mm fixed	4.44 ~ 142.6mm (Optical 32x)
Max.Framerate(Analog)	30fps	30fps
Max.Framerate(IP)	60fps	60fps
IP Grade	66/67	66/67
(WxDxH)mm	150×210×198	353×443×485
Material	SUS316L	SUS316L
Colour	SILVER	SILVER
Weight	18kg	45kg
Install Area	OUTSIDE	OUTSIDE

Digital Closed Circuit Television for risk prevention, security and safety of the ship

## CAMERA HOUSING

MCT-200-FHS	MCT-200-FHW	MCT-250-FHS
		
X	X	X
X	O	X
O	O	O
Optional	Optional	Optional
1920 × 1080	1920 × 1080	1920 × 1080
1920 × 1080	1920 × 1080	1920 × 1080
4.44 ~ 142.6mm (Optical 32x)	4.44 ~ 142.6mm (Optical 32x)	4mm fixed
4.44 ~ 142.6mm (Optical 32x)	4.44 ~ 142.6mm (Optical 32x)	2.4mm fixed
30fps	30fps	30fps
60fps	60fps	60fps
66/67	66/67	66/67
150×210×198	150×210×198	150×210×198
SUS316L	SUS316L	SUS316L
SILVER	SILVER	SILVER
18kg	18kg	18kg
OUTSIDE	OUTSIDE	OUTSIDE
MCT-SFX-1WEX	MCT-150	MCT-100
		
X	O	X
O	X	X
O	O	O
Optional	Optional	Optional
1920 × 1080	1920 × 1080	1920 × 1080
1920 × 1080	1920 × 1080	1920 × 1080
4mm fixed	4mm fixed	4.44 ~ 142.6mm (Optical 32x)
2.4mm fixed	2.4mm fixed	4.44 ~ 142.6mm (Optical 32x)
30fps	30fps	30fps
60fps	60fps	60fps
66/67	66/67	66/67
117×425×221	176X268X176	76X268X176
SUS316L	SUS316L	SUS316L
SILVER	SILVER	SILVER
12kg	6kg	6kg
OUTSIDE	OUTSIDE	OUTSIDE