

CCTV 电视监控系统
CCTV system

概述 General description

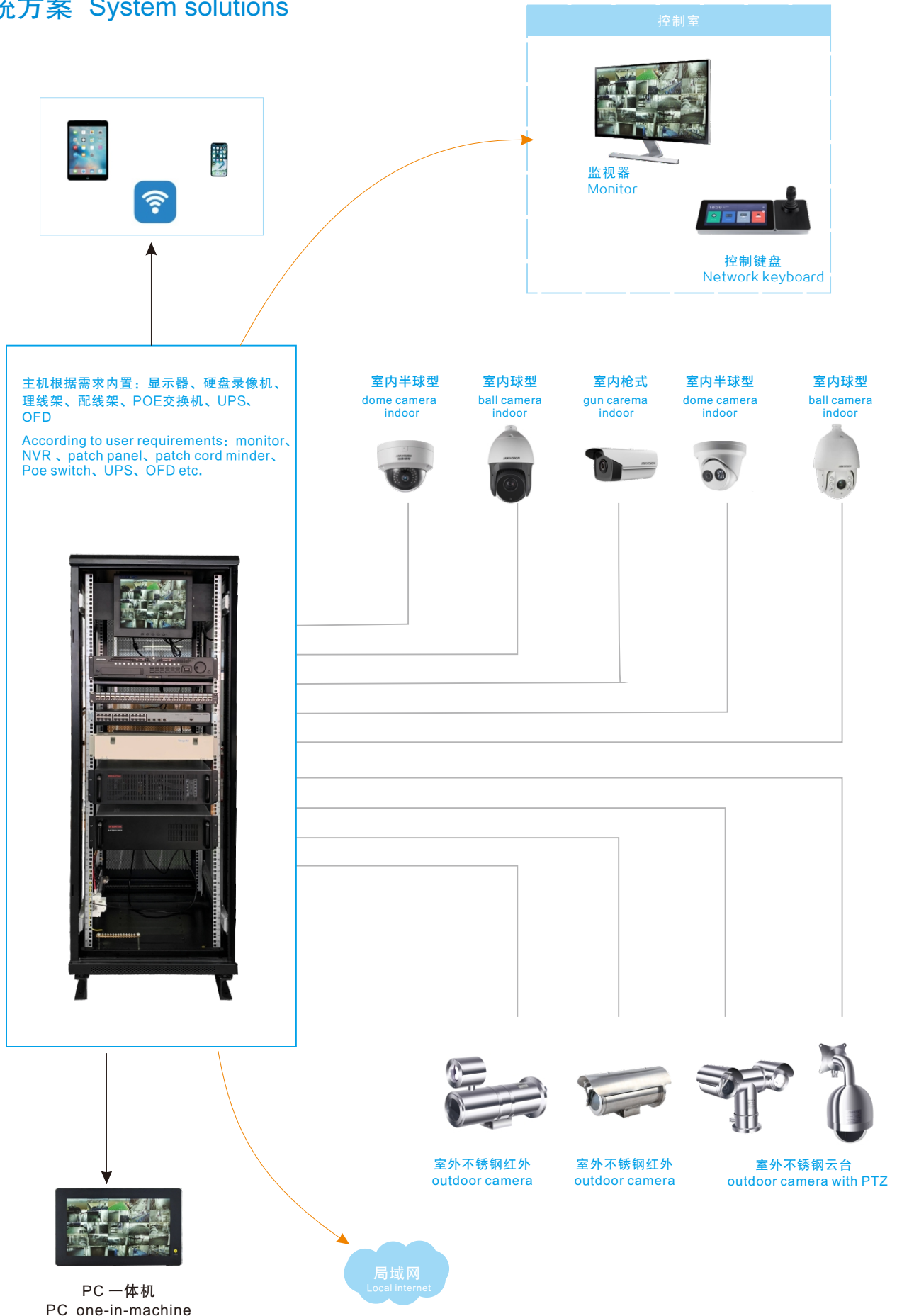
CCTV船舶监控系统是一种先进的、防范能力极强的船用综合系统。它可以通过装在船上的各处的摄像头直接监视到船舶内部及其四周监控范围内的相关情况。实时的把被监控场所的视频内容传送到安装有客户端软件的电脑处，可以做到随时掌握了解船舶周围和船舶内部及其四周监控范围内的相关情况，实时的把被监控场所的视频内容专送到主控单元，并可通过船舶局域传送到安装有客户端软件的电脑处。船舶视频监控系统在航行安全、防碰撞、船舶保安、监控劳动安全方面起到较好作用。

CCTV ship monitoring system is an advanced ship integrated system with strong prevention ability. It can directly monitor the situation inside and around the ship through the camera installed everywhere. The real-time video surveillance places content delivered to the client software of the computer installation, can be done at any time to monitor the internal and the surrounding around and ship monitoring within the scope of the relevant information, the real-time video surveillance places content designed to the main control unit, and can be transmitted by the ship LAN computer to install a client software. Ship video monitoring system plays a good role in navigation safety, anti-collision, ship security, monitoring labor safety, anti-collision, ship insurance case, monitoring labor safety.

设备组成 Device Composition

序号 S/N	型号 Model	名称 Name	主要材质 Main material	防护等级 IP class
1	KX-JG	机柜 Cabinet	碳钢 Carbon steel	IP 20
2	KCC-11XX	网络硬盘录像机 Network HD recorder	碳钢 Carbon steel	IP 20
3	KX-7108/7116/7124	网络交换机 Network switch	碳钢 Carbon steel	IP 20
4	KCC-51X0	网络键盘 Network keyboard	阻燃ABS Fire reatardant ABS	IP 20
5	KX-YTJ-Q	一体机 All-in-one machine	阻燃ABS Fire reatardant ABS	IP 20
6	KX-8019-P	工业显示器 Display unit	铝合金 Aluminium	IP 20
7	KCC-6001	电源箱 Power box	阻燃ABS Fire reatardant ABS	IP 20
8	KCC-6008	解码器 Decoder	碳钢 Carbon steel	IP 20
9	KX-9408-2T	主机 Host computer	碳钢 Carbon steel	IP 20
10	KCC-2120-P	红外网络球机 Infrared network ball camera	阻燃ABS Fire reatardant ABS	IP 66
11	KCC-2121-P	红外网络一体机 Infrared network integrated camera	阻燃ABS Fire reatardant ABS	IP 66
12	KCC-2122-P	红外半球形网络摄像机 Infrared network dome camera	阻燃ABS Fire reatardant ABS	IP66
13	KCC -3120	不锈钢红外网络一体机（带云台） Stainless Steel PTZ network camera	不锈钢 Srainless steel	IP 66
14	KCC -3121	不锈钢红外网络一体机 Stainless steel network integrated camera	不锈钢 Srainless steel	IP 66
15	KCC -3122	不锈钢红外网络一体机（带云台） Stainless steel network integrated camera with PTZ	不锈钢 Srainless steel	IP 66

系统方案 System solutions



CCTV 视频机柜

CCTV Cabinet



机柜通用配置：

12"显示器	12" Disply
2U 硬盘录像机	2U Network disk recorder
1U POE 交换机	1U POE Switch
1U 理线架	1U patch cord minder
1U 配线架	1U patch panel
1U KVM 一体机	1U KVM switcher
2U UPS	2U UPS

★可按客户要求定制，根据具体配置
订制1.6米、1.8米机柜。

Can be customized according to
customer requirements, according to
the specific configuration customized
1.6m, 1.8m cabinets.

功能特点 Feature

可接符合ONVIF、RTSP标准及众多主流厂商的网络摄像机；
支持通过APP实现手机或平板在远端观看实时画面 与录像和回放；
支持GB28181、Ehome协议接入平台；
支持4K高清网络视频的预览、存储与回放；
支持Smart265、H.265、H.264编码前端自适应接入；
支持IPC集中管理,包括IPC参数配置、信息的导入/导出和升级等功能；
支持1个HDMI (4K) 多 VGA 时输出；
支持一键开启录像功能；
支持即时回放功能,在预览画面下对指定通道的当前录像进行回放,并且不影响其他通道预览；
支持多路同步回放及多路同步倒放；
支持重要录像文件加锁保护功能；
支持网络检测功能
支持船舶局域网互联互通
支持光网口接入
支持POE供电
支持所有设备不间断供电

Can connect to the network camera in line with ONVIF, RTSP standard and many mainstream manufacturers;
Support mobile phone or tablet to watch real-time pictures, videos and playback through APP;
Support GB28181, Ehome protocol access platform;
Supports preview, storage and playback of 4K hd network video;
Support Smart265, h. 265, h. 264 coding front-end adaptive access;
Support centralized IPC management, including IPC parameter configuration, information import/export and upgrade;
Support 1 HDMI (maximum 4K) and multiple VGA output at the same time;
Support one-click video recording function;
Supports instant playback to play back the current video on the specified channel in the preview screen, and
Does not affect other channel previews;
Support multi - channel synchronous playback and multi - channel synchronous playback;
Support the lock protection function of important video files;
Support network detection function
Support ship LAN interconnection
Support optical network access
Support POE power supply
Support uninterrupted power supply for all equipment

技术指标 Technical data

VGA或HDMI显示器输出接口。

VGA or HDMI display output interface.

RS-485串行接口

RS-485 serial interface.

网络传输距离为100米内。(网络监控系统专用)

Network transmission distance is within 100 meters.

网络摄像头支持POE。(网络监控系统专用)

The camera supports the POE.

电源：AC220V ± 10%/5A

Power supply: AC220V ± 10% /5A.

系统能与船舶局域网互联互通，接口形式为RJ45。




System can interconnect with ship LAN, and the interface form is RJ45.

硬盘录像机 NETWORK HD RECORDER

型号 Model	KCC-11XX-□P	KCC-11XX
产品外观 Product picture		
网络视频接入 Network video access	16路 8路 4路(可选) 16/8/4way(optional)	128路 64路 32路 16路 8路 (可选) 128/64/32/16/8 way(optional)
同步回放 Synchronous playback	16路 8路 4路(可选) 16/8/4 way (optional)	16路 8路(可选) 16/8 way(optional)
视频音频输出 Video audio output	HDMI输出, VGA输出, 音频输出 HDMI output, VGA output, audio output	HDMI输出, VGA输出, 音频输出 HDMI output, VGA output, audio output
硬盘驱动器 HDD	1个, 2个, 4个 (可选) SATA接口, 接口支持容量最大6TB的硬盘 1, 2, and 4 (optional) SATA ports support up to 6TB hard drives	4个, 8个 (可选) SATA接口 接口支持容量最大8TB的硬盘 4, 8, (optional) SATA ports support up to 8TB hard drives
网络接口 Network port	1个RJ45 10M/100M/1000M 自适应以太网口 RJ45 10M/100M 自适应以太网口,	2个RJ45 10M/100M/1000M 自适应以太网口
功耗 (不含硬盘) Power consumption	≤15W	≤30W
工作温度 operating temperature	-10°C-- + 55°C	

注: 后缀带"P"的硬盘录像机适用于摄像机数量少于16台的船型, 不需要配置网络交换机。
Note: the suffix "P" DVR is suitable for ships with fewer than 16 cameras. No network switch is required.

网络交换机 NETWORK SWITCH

型号	KX-7108/KX-7108P	KX-7116/KX-7116P	KX-7124/KX-7124P
			
Poe端口 Poe terminal	8pcs-10/100Mbps Base-T PoE 1pc-10/100Mbps Base-T	16pcs-10/100Mbps Base-T PoE 1pc-10/100/1000Mbps Base-T 1pc-1000Mbps Base-X	24pcs-10/100Mbps Base-T PoE 1pc-10/100/1000Mbps Base-T 1pc1000Mbps Base-X
电源 Power supply	AC100~240V	AC100~240V	AC100~240V
总功耗 Power Consumption	≤65W	≤135W	≤190W
型号	KX-7108/KX-7108P	KX-7116/KX-7116P	KX-7124/KX-7124P
			
Poe端口 Poe terminal	8pcs-10/100Mbps Base-T PoE 2pcs-10/100/1000Mbps Base-T 2pcs-1000Mbps Base-X	16pcs-10/100Mbps Base-T PoE 2pcs-10/100/1000Mbps Base-T	24pcs-10/100Mbps Base-T PoE 2pcs-10/100/1000Mbps Base-T 2pcs-1000Mbps Base-X
电源 Power supply	AC100~240V ;	AC100~240V ;	AC100~240V ;
总功耗 Power Consumption	≤65W ;	≤135W ;	≤190W ;

注: 后缀带"P"网络交换机为Poe供电
Note: suffix with "P" network switch power supply Poe

网络键盘 NETWORK KEYBOARD

	KCC-5120	KCC-5170
产品外观 Product picture		
连接方式 Connection mode	网络方式, RS-232, RS-485, RS-422 NETWORK MODE, RS-232, RS-485, RS-422	
控制方式 Control mode	操纵杆四维摇杆 Joystick four - dimensional rocker	操纵杆三维摇杆 Joystick three - dimensional rocker
显示屏 LCD	液晶显示屏10.2英寸TFT LCD触控屏 LCD 10.2-inch TFT LCD touch screen	2英寸LED显示屏 2-inch LED screen
解码 Decoding	本地解码支持本地解码预览, 最多16画面分割显示 Local decoding support local decoding preview,	-
音频输入 Audio input	语音对讲1个音频输入 Voice intercom 1 audio input	-
WIFI	支持WIFI Support WIFI	-
接口 Interface	音频输出1个 视频接口1个HDMI接口, 1个DVI接口 网络接口1个, 100M/1000M自适应以太网口 USB接口2个, USB2.0 1 Audio output 1 Video interface HDMI interface, 1 DVI interface 1 network interface, 100M/1000M adaptive Ethernet port 2 USB ports, USB2.0	网络接口1个, 百兆以太网口 串行接口1个, 标准RS-232串行接口 1个, 标准RS-485串行接口 1个, 标准RS-422串行接口 USB接口1个, USB 2.0 1 serial interface, standard RS-232 serial interface 1 standard RS-485 serial interface One, standard RS-422 serial interface 1 USB port, USB 2.0 1 Network interface , 100 MB Ethernet port
供电 Power supply	电源DC12V/POE受电 Power supply DC12V/POE	电源DC12V DC12V power supply
功耗 power consumption	≤15W	≤7W
工作温度 Operating temperature	-10°C~+55°C	
工作湿度 Working humidity	10%~90%	

KVM 一体机 1U KVM SWITCH



HASUS系列为1U高度, 全金属结构, 可以安装在标准机架空间, 可直连电脑或KVM切换器, 对单台或多台电脑进行操作。包括1、8、16口3种型号, 配备17或19两种尺寸显示屏, 液晶显示屏可高亮度, 高清晰, 高分辨率显示。

The hasus series is 1u height, full metal structure, which can be installed in standard frame space, can be connected to a computer or a KVM switcher, for a single or a single multiple computers operate. Includes the 1th and 8th, 16, 3 models, equipped with 17 or 19 dimensions of the screen, the LCD display can be high and clear, the high score rate shows.

工业显示器 DISPLAY UNIT



尺寸: 19"、21"

安装方式: 嵌式、台式、吊装

特点: 与普通的液晶显示器不同, 面板设有调光按键, 满足夜间航行要求, 能适应极端环境、运行稳定、使用寿命长等特点。

Size: 19", 21"

Installation: flush type, desk type, hoisting

Features: different from ordinary LCD, the panel is equipped with dimmer button, which can meet the requirements of night navigation, adapt to extreme environment, stable operation and long service life.

KCC-6001 电源箱 POWER SUPPLY BOX



电源: 输入AC220V
输出AC220
输出AC24V

Power: input AC220V
Output AC220V
Output AC24V

红外网络一体机 INFRARED NETWORK INTEGRATED CAMERA

产品外观
Product picture



型号 Model	KCC-2121	KCC-2121-P
有效像素 Effective pixels	200/300/400 pixels	
图像传感器 Image Sensor	1/2.8" Progressive Scan CMOS	
焦距 Focal length	4mm、6mm、8mm、12mm	
防护等级 Protection Level	IP66;TVS 6000V 防雷、防浪涌、防突波 lightning protection, surge protection and voltage transient protection	
红外照射距离 IR Distance	50M	
电源供应 Power Supply	DC24V	PoE(802.3af)
功耗 Power Consumption	40W max (其中红外灯14W max) 40W max (IR: 14W max)	18W max (其中红外灯7W max) 18W max (IR: 7W max)

红外网络球机 INFRARED NETWORK BALL CAMERA

产品外观 Product picture		
型号 Model	KCC-2120	KCC-2120-P
有效像素 Effective pixels	200/300/400 pixels	
图像传感器 Image Sensor	1/2.8" Progressive Scan CMOS	
焦距 Focal length	20倍光学变焦 20x optical zoom	
水平视角 Field of View	57.6~2.7° (广角-望远 wide-tele)	
防护等级 Protection Level	IP66;TVS 6000V 防雷、防浪涌、防突波 lightning protection, surge protection and voltage transient protection	
红外照射距离 IR Distance	150M	100M
电源供应 Power Supply	AC24V	PoE(802.3af)
功耗 Power Consumption	40W max (其中红外灯14W max) 40W max (IR: 14W max)	18W max (其中红外灯7W max) 18W max (IR: 7W max)

红外半球形网络摄像机 INFRARED NETWORK DOME CAMERA

产品外观 Product picture		
型号 Model	KCC-2122-P	KCC-2122-PZ
有效像素 Effective pixels	200/300/400 pixels	
焦距 Focal length	4mm ; 水平视场角:90° 4mm ; Horizontal field angle:90°	电动镜头2.8mm~12mm Electric lens 2.8mm~12mm
手动调整角度 manual adjust the angle	水平:0° ~360° ; 垂直:0° ~ 75° Horizontal:0° ~360° ; Vertical:0° ~ 75°	水平:0° ~355° ,垂直:0° ~70° Horizontal:0° ~355° ,Vertical:0° ~70°
电源供应 Power Supply	PoE(802.3af)	
防护等级 Protection Level	IP66	
红外照射距离 IR Distance	30m	
功耗 Power Consumption	5.5W MAX (当ICR切换瞬时7.5W) 5.5W MAX (7.5w when ICR switches)	5W MAX (当ICR切换时 7W) 5W MAX (5w when ICR switches)

不锈钢红外网络一体机(带云台) STAINLESS STEEL PTZ NETWORK CAMERA

产品外观 Product picture		
型号 Model	KCC-3120	KCC-3122
有效像素 Effective pixels	200/300/400 pixels	
云台功能 PTZ feature	水平360°连续旋转, 垂直方向-90°/-90°, 无监视盲区 Horizontal 360° continuous rotation, vertical direction -90°/-90°, no surveillance blind spots	
调整角度 adjust the angle	水平:0° ~180° ; 垂直:0° ~ 75° Horizontal:0° ~180° ; Vertical:0° ~ 75°	
防护等级 Protection Level	Ip66	
材质 Housing Material	304/316L	
电源供应 Power Supply	AC85V~AC265V	
功耗	≤35W	≤50W
选配功能 Optional features	自动加热 Auto-heating 自动制冷 Auto-cooling	

不锈钢红外网络一体机 STAINLESS STEEL NETWORK CAMERA

产品外观 Product picture		
型号 Model	KCC-3121-H	KCC-3121
有效像素 Effective pixels	200/300/400 pixels	
焦距 Focal length	4mm ; 水平视场角:90° 4mm ; Horizontal field angle:90°	电动镜头4mm~12mm Electric lens 4mm~12mm
防护等级 Protection Level	Ip66	
红外照射距离 IR Distance	80m	
电源供应 Power Supply	AC85V~AC265V	
功耗 Power Consumption	25W	
选配功能 Optional features	自动加热 Auto-heating 自动制冷 Auto-cooling 电动雨刮 Wiper 遮阳罩 Sunshield	自动加热 Auto-heating 自动制冷 Auto-cooling

网络监控(高清)系统示意图
Network monitoring(high definition) system diagram

