



Fast and Convenient
UTP System



Samsung Techwin UTP System

SUB-2000/SUD-2080/2080F

- Long range UTP video signal transfer up to 900m (3,000ft)
- Powerful surge and lightning protection
- Quick and convenient installation & management
- High quality video with stable performance & dual video display





Quick and Easy Installation

Samsung Techwin UTP System

High-Quality Video & Long-Range Transfer

Using a single UTP cable, power, video and data signals can be transferred over long distances, up to 900m (3,000ft). This system delivers stable images with uncompromised brightness and clarity.



Surge and Lightning Protection

Equipped with circuits that are strictly tested for surge and lightning resistance, our UTP products provide perfect protection against a maximum of ±4KV surge and lightning while achieving stable performance that satisfies the ANSI/IEEE 587 C62.41 standard.

* The SPU-100TR does not provide lightning protection.



Quick and Easy Security System Installation & Management

CCTV systems using conventional coaxial cable are often swarmed with power, broadcasting and communication cables. Samsung Techwin's UTP system reduced the number of cables to just one to carry power, video and control signals; saving both time and money on cabling infrastructure



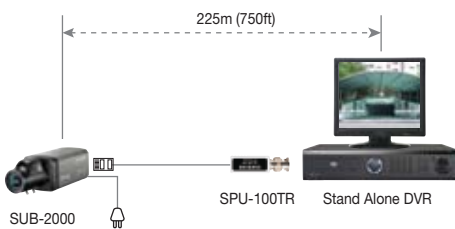
Dual Video Display

Samsung Techwin UTP cameras are capable of dual video display via the BNC output terminal. For your convenience, they are upgraded for easy installation.

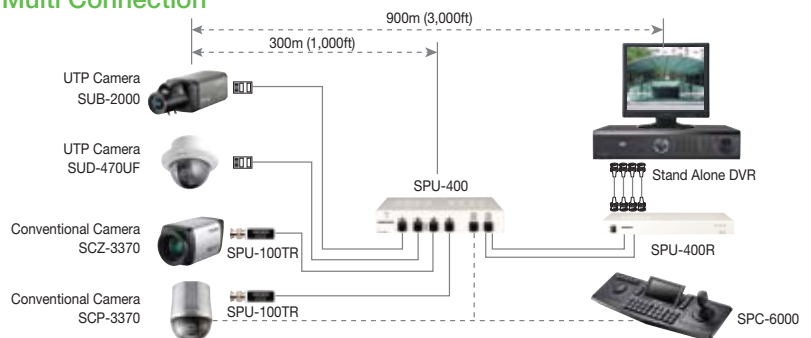


No More Tangled Cables

Single Connection



Multi Connection



* SPU-100TR transmission distance : 225m (750ft)

900m, Long Range Transfer Capacity for High Quality Video Vivid and Stable Video Quality



SUB-2000

High Resolution UTP Camera



600TV lines High Resolution & Ultra Low Light Level of 0.05Lux

Equipped with the W-V chipset, the SUB-2000 uses our proprietary video signal processing technology to achieve vivid images at 600TV lines high resolutions. The upgraded SSNR^{III} adds in highly-effective noise reduction, and the ultra low light level of 0.05Lux is perfect for nighttime monitoring.

High Resolution



Conventional Camera

SUB-2000

Low Light



Conventional Camera

SUB-2000

Various Supplementary Options

For clearer images, the SUB-2000 supports SSSDR (Samsung Super Dynamic Range) and DIS (Digital Image Stabilization). The camera OSD can be controlled remotely via coax communication using a coaxial cable.



DIS On

DIS Off

SUD-2080/2080F

High Resolution UTP Dome Camera



600TV lines High Resolution & SSSDR Compensation Technology

Equipped with the high-resolution W-V DSP chipset, the SUD-2080/2080F achieves vivid color images at 600TV lines high resolution. With SSSDR (Samsung Super Dynamic Range), this camera can capture objects even in the darkest areas for accurate monitoring.

High Resolution



Conventional Camera

SUD-2080/2080F

SSDR



Conventional Camera

SUD-2080/2080F

Flush Type Discreet Design

Encased in a flush-type chassis, the SUD-2080F requires no extra accessories for installation. Its discreet chassis blends in well with any interior design.



Samsung Techwin UTP System

SUB-2000/SUD-2080/2080F



Specifications

| | SUB-2000N | SUB-2000P | SUD-2080(F)N | SUD-2080(F)P |
|----------------------------------|---|--------------------------|---|--------------------------|
| ELECTRICAL | | | | |
| Input Voltage | 12V DC / 24V AC / 28V AC | | 12V DC / 24V AC / 28V AC | |
| Power Consumption | Max. 3.5W | | Max. 3.5W | |
| VIDEO | | | | |
| Imaging Device | 1/3" Super HAD CCD | | 1/3" Super HAD CCD | |
| Total Pixels | 811(H) x 508(V) | 795(H) x 596(V) | 811(H) x 508(V) | 795(H) x 596(V) |
| Effective Pixels | 768(H) x 494(V) | 752(H) x 585(V) | 768(H) x 494(V) | 752(H) x 585(V) |
| Scanning System | 2 : 1 Interlace | | 2 : 1 Interlace | |
| Synchronization | Internal / Line lock | | Internal / Line lock | |
| Frequency | H : 15.734KHz / V : 59.94Hz | H : 15.625KHz / V : 50Hz | H : 15.734KHz / V : 59.94Hz | H : 15.625KHz / V : 50Hz |
| Horizontal Resolution | 600TV lines (Min.) | | Color : 600TV lines (Min.) / B/W : 700TV lines (Min.) | |
| Min. Illumination | Color : 0.05Lux (50 IRE@F1.2), 0.0001Lux (Sens-up, 512x) | | Color : 0.15Lux (50 IRE@F1.2), 0.0003Lux (Sens-up, 512x) B/W : 0.001Lux (50 IRE@F1.2) | |
| S / N (Y signal) | 52dB | | 52dB | |
| Video Output | CVBS : 1.0Vp-p / 75Ω | | CVBS : 1.0Vp-p / 75Ω | |
| UTP Output | Built-in UTP TX [Maximum transmission length 900m (3,000ft)] : Balanced differential signal 100Ω | | Built-in UTP TX [Maximum transmission length 900m (3,000ft)] : Balanced differential signal 100Ω | |
| Compatibilities | NVT, Nitec | | NVT, Nitec | |
| LENS | | | | |
| Zoom Ratio | N/A | | 3.6X (Manual) | |
| Focal Length | N/A | | 2.8 ~ 10mm (F1.2) | |
| Max. Aperture Ratio | N/A | | 1 : 1.2(Wide) ~ 2.8(Tele) | |
| Min. Object Distance | N/A | | 0.2m (0.66ft) | |
| Angular Field of View | N/A | | H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele) | |
| Pan / Tilt / Rotate Range | N/A | | 0° ~ 340° / 0° ~ 146° / 0° ~ 340° | |
| OPERATIONAL | | | | |
| On Screen Display | 7 Languages | 15 Languages | 7 Languages | 15 Languages |
| Camera Title | Off / On (Displayed 15 characters) | | Off / On (Displayed 15 characters) | |
| Day & Night | Auto (Electrical) / Color / B/W | | Auto (ICR) / Color / B/W | |
| SSDR | On / Off (Level adjustable) | | On / Off (Level adjustable) | |
| Backlight Compensation | BLC / HLC / Off | | BLC / HLC / Off | |
| Motion Detection | On / Off (8 programmable zones) | | On / Off (8 programmable zones) | |
| Digital Zoom | On / Off (1x ~ 16x) | | On / Off (1x ~ 16x) | |
| Digital Image Stabilization | On / Off | | On / Off | |
| Privacy Masking | On / Off (12 Programmable zones) | | On / Off (12 Programmable zones) | |
| 2D+3D Noise Filter (SSNRIII) | On / Off (Level adjustable) | | On / Off (Level adjustable) | |
| Sens-up (Frame Integration) | Auto / Off (Selectable limit ~ 512x) | | Auto / Off (Selectable limit ~ 512x) | |
| Gain Control | Low / High / Off | | Low / High / Off | |
| White Balance | ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°) | | ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°) | |
| Electronic Shutter Speed | 1/60 ~ 1/120,000sec | 1/50 ~ 1/120,000sec | 1/60 ~ 1/120,000sec | 1/50 ~ 1/120,000sec |
| Shutter Mode | ESC, Manual, A.FLK, Fixed | | Fixed, ESC, Manual, A.FLK | |
| Flip / Mirror | On / Off | | On / Off | |
| Communication | RS-485, Coaxial Control | | RS-485, Coaxial Control | |
| Protocol | Samsung Techwin, Pelco-D, Pelco-P, Bosch, Panasonic, Honeywell, Vicon, Samsung Electronics | | Samsung Techwin, Pelco-D, Pelco-P, Bosch, Panasonic, Honeywell, Vicon, Samsung Electronics | |
| ENVIRONMENTAL | | | | |
| Operating Temperature / Humidity | -10°C ~ +50°C (+14°F ~ +122°F) / 30% ~ 80% RH | | -10°C ~ +50°C (+14°F ~ +122°F) / 30% ~ 80% RH | |
| Storage Temperature / Humidity | -20°C ~ +60°C (-4°F ~ +140°F) / 20% ~ 90% RH | | -20°C ~ +60°C (-4°F ~ +140°F) / 20% ~ 95% RH | |
| MECHANICAL | | | | |
| Dimension (WxHxD) | 58 x 52 x 121mm (2.28" x 2.05" x 4.76") | | SUD-2080F : 0140 x 115mm (05.51" x 4.53") / SUD-2080 : 0141.2 x 105.5mm (05.56" x 4.15") | |
| Weight | 290g (0.64 lb) | | SUD-2080F : 425g (0.94 lb) / SUD-2080 : 560g (1.23 lb) | |

* This specification is based on a transmission distance of 500meters : in cases of long-distance transmissions, some degradation in picture quality may occur depending on the operating environment.

| | SPU-400 | SPU-400R | SPU-100TR |
|----------------------------------|--|---|---|
| Video Input signal | Cable link | Balanced differential signal 100Ω | CVBS 1.0Vp-p, 75Ω / Balanced differential signal 100Ω |
| Video Output signal | Cable link | CVBS 1.0Vp-p, 75Ω | Balanced differential signal 100Ω / CVBS 1.0Vp-p, 75Ω |
| Freq. Response | N/A | DC to 5MHz | DC to 5MHz |
| Common-mode Rejection | N/A | 60dB | N/A |
| Impedance | N/A | Coax, BNC 75ohms / UTP, RJ-45 50ohms | BNC 75ohms / Terminal block 50ohms |
| Max. Power | 300m (1,000ft) | N/A | N/A |
| Distance | Cable link | 900m (3,000ft) | 225m (750ft) |
| Display | LED | Switch LED | N/A |
| Input | 115 / 230V AC, 50/60Hz | 100 ~ 240V AC, 50/60Hz | N/A |
| Output | 24V AC / 28V AC, 1Amp. | N/A | N/A |
| Voltage Control | 24V AC / Off / 28V AC switchable | N/A | N/A |
| Power on Display | Green | Green | N/A |
| Protection | 4A fuse | 2.5A fuse | N/A |
| Port | Video Input 4Port (RJ-45) | 1Port (RJ-45) | 2P terminal block or BNC-Male |
| Video Output | 1Port (RJ-45) | Female BNC it has 2 outputs per Channel | 2P terminal block or BNC-Male |
| DATA | 1Port (RJ-45) | N/A | N/A |
| Red | Short shutdown condition | No signal detected | N/A |
| Green | Load connected and working | Valid video signal | N/A |
| Amber | Overload | N/A | N/A |
| Off | Not connected | N/A | N/A |
| Operating Temperature / Humidity | -10°C ~ +50°C (+14°F ~ +122°F) / 0% ~ 80% RH | | -10°C ~ +50°C (+14°F ~ +122°F) / 0% ~ 80% RH |
| Materials | Steel | Steel | ABS |
| Dimension (WxHxD) | 250 x 44 x 225mm (9.84" x 1.73" x 8.86") | 430 x 44 x 250mm (16.93" x 1.73" x 9.84") | 56 x 17 x 17mm (2.2" x 0.67" x 0.67") |
| Weight | 4.35kg (9.59 lb) | 2.56kg (5.64 lb) | 20g (0.04 lb) |

Design and specifications are subject to change without notice.

UTP Kit

4CH UTP Power Supply Hub

SPU-400



4CH UTP Receiver

SPU-400R



1CH UTP Transceiver

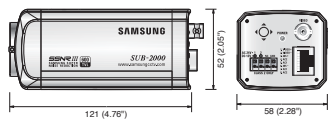
SPU-100TR



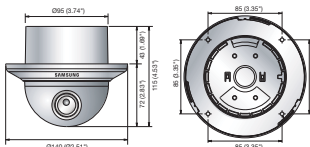
Dimensions

Unit : mm (inch)

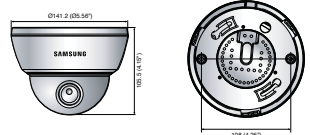
SUB-2000



SUD-2080F



SUD-2080



The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.



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