



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

No More Tangled Cables



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

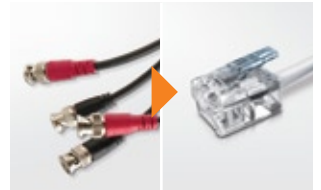
Equipped with circuits that are strictly tested for surge and lightning resistance, our UTP products provide perfect protection against a maximum of $\pm 4KV$ surge and lightning while achieving stable performance that satisfies the ANSI/IEEE 587 C62.41 standard.

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



Quick and Easy Security System Installation & Management

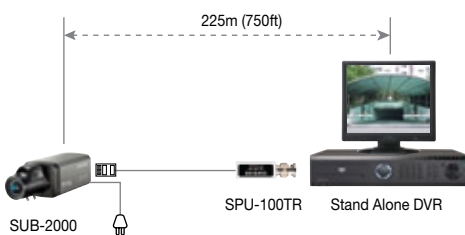
CCTV systems using conventional coaxial cable are often swarmed with power, broadcasting and communication cables. Samsung Techwin's UTP system reduced the number of cables to just one to carry power, video and control signals; saving both time and money on cabling infrastructure



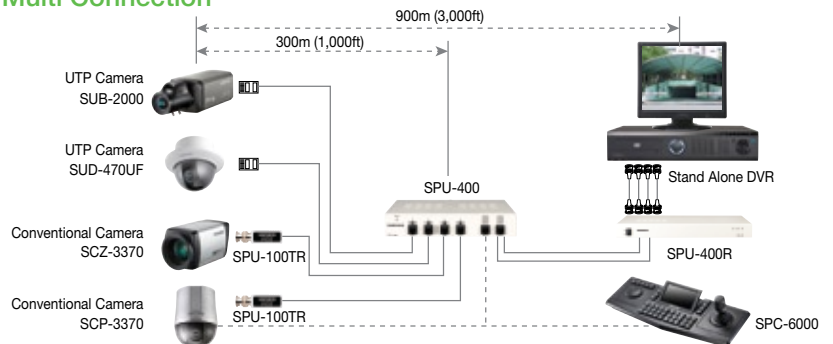
Dual Video Display

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

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 SSNRIII 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 SSDR (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 & SSDR 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 SSDR (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)			
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			
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
Video	Freq. Response	N/A	DC to 5MHz
	Common-mode Rejection	N/A	60dB
Impedance	N/A	Coax, BNC 75ohms / UTP, RJ-45 50ohms	BNC 75ohms / Terminal block 50ohms
	N/A		N/A
Max. Power	300m (1,000ft)	N/A	N/A
	Distance	Cable link	900m (3,000ft)
Display	LED	Switch LED	N/A
	Input	115 / 230V AC, 50/60Hz	100 ~ 240V AC, 50/60Hz
Power	Output	24V AC / 28V AC, 1Amp.	N/A
	Voltage Control	24V AC / Off / 28V AC switchable	N/A
Protection	Power on Display	Green	N/A
	4A fuse	2.5A fuse	N/A
Port	Video Input	4Port (RJ-45)	1Port (RJ-45)
	Video Output	1Port (RJ-45)	Female BNC it has 2 outputs per Channel
LED	Red	Short shutdown condition	No signal detected
	Green	Load connected and working	Valid video signal
Display	Amber	Overload	N/A
	Off	Not connected	N/A
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / 0% ~ 80% RH		
Materials	Steel		
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

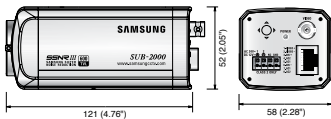
SPU-100TR



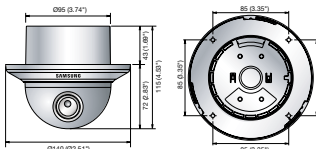
Dimensions

Unit : mm (inch)

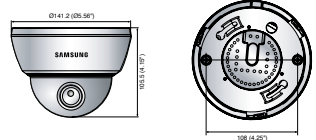
SUB-2000



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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