



## IP54 Speaker and Microphone System

STS-K080-IP

This intercom system provides high quality sound for entry assistance locations, delivery points, and other applications where one side is outdoors. Our IP54 rating makes this product perfectly suited to withstand harsh weather conditions and environments, offering protection against water, dust, and dirt ingress.

Our high quality microphone and speaker pick up minimal background noise, ensuring both the customer and staff side of the intercom can be clearly heard.

### Components

- Window Intercom System Amplifier [STS-A31H]
- Staff Loudspeaker Unit [STS-SU1-B]
- IP54 Overhead Speaker [STS-S80-IP]
- IP54 Stem Microphone [STS-M15-300IP]
- PS-55 Power Supply [PS-55-01]
- Counter Hearing Loop Aerial [IL-AE99]
- Extension Cable [CABLE-STS-EX5M]

### Physical Data (boxed)

Dimensions	Height – 120mm (4.72") Width – 640mm (25.19") Depth – 340mm (13.38")
Construction	Mixed
Finish	Mixed

### Applications

For use where one to one communication takes place at a counter or booth with a security screen:

- Outdoor access points (gates/ security doors, etc)
- Takeaway Booths
- Transport and Distribution Depots
- Ports and Ferry Terminals
- Car Parks/Parking Lots
- Medical, Helathcare and Mass Testing Facilities
- Drive-Through Services (food and beverage, retail, banking)

### Standards

- Customer Side IP54 rated against dust and water ingress. Water splashing against the enclosure from any direction shall have no harmful effect.

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## Physical and Technical Data (Individual Parts)

Component	Physical Data	Technical Data		
Window Intercom Amplifier	Dimensions: Height - 116mm (4.57") Width - 115mm (4.53") Depth - 40mm (1.57")  Weight: 100g (0.22lbs)  Construction: ABS Plastic  Finish: Matt Black Fine Texture	Supply Voltage	12-14 VDC	
		Quiescent Current	100mA typical	
		Operating Current	2A typical on speech peaks	
		Power Switch	Push on - push off (tact switch under membrane)	
		Microphones	Electret, supply 5V via 2.2K load resistor	
		Speaker Output Power	RMS: 2.5W / 8 Ω 4.4W / 4 Ω	
		Loop Drive Compliance	Constant current, bounded by 4V RMS & 2A RMS	
		Total Harmonic Distortion	<5% (loop and speakers)	
PS-55 Power Supply	Dimensions: Height - 93mm (3.66") Width - 49mm (1.93") Depth - 36mm (1.42")  Cable length: 1.8m (70.87")  Weight: 180g (0.39lbs)  Construction: ABS Case  Finish: Black	Input	100-240V 50-60Hz 1A max	
		Output	14V 2.14A 30W max	
Staff Loudspeaker Unit	Dimensions: Height - 370mm (6.30") Width - 95mm (2.76") Depth - 150mm (3.94")  Weight: 820g (1.80lbs)  Construction: Mild Steel  Finish: Black Textured Powder Coated	Speaker	RMS	5W
			Impedance	4Ω
			Output	SPL 1W @ 1M 85dB
			Frequency Response	150Hz - 10300Hz
		Microphone	Directional Response	Cardioid
			Frequency Response	150Hz - 10500Hz
			Sensitivity	49.5dB+ 2dB @ 1kHz
			Impedance	1.6K Ohms+ 3-% @ 1kHz
IP54 Overhead Speaker	Dimensions: Height - 153mm (6.02") Width - 106mm (4.17") Depth - 106mm (4.17") Construction: Plastic and Metal Finish: Matt Black  Height - 36mm (1.41") Width - 36mm (1.41") Depth - 12mm (0.47") Stem - 300mm (11.8") Cable Length - 2m Construction: ABS Plastic & Stainless Steel Finish: Black Powder coat	Speaker	Rated Power Input	30W
			Impedance	8 Ohm
			Sensitivity	SPL @ 1W/ 1M 88dB
			Frequency Response	120Hz - 20,000Hz
		Microphone	Directional Response	Omnidirectional
			Frequency Response	100Hz - 20,000Hz
			Sensitivity	-42dB +/-3dB @ 1kHz (0dB=1V/pa)
			Output Impedance	2.2K
Counter Hearing Loop Aerial	Dimensions: To be moulded on site to required size/ shape by installers.  Weight: 100g (0.22lbs)  Construction: Copper Wire with Black Protective Covering  Finish: Black			

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## Standards

- Induction loop performance compliant with BS EN60118-4 (when correctly installed)
- STS-K080-IP - Ingress protection rated IP54 against penetration from water and dust

## Legislation

Directive Number	Directive Title
2014/35/EU	Low Voltage Directive (LED)
2012/19-EU	Waste Electrical & Electronic Equipment (WEEE) Directive
(EU) 2015/863	RoHS III Directive

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