# PART 5

# **Communication Hub**

Noise Level Report

August 2020

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#### Introduction

The purpose of this report is to compare noise levels from different street furniture using a basic sound level decibel meter. The recordings are not official laboratory noise levels and should not be used in any other way than a rudimentary comparative like for like comparison.

The sound level decibel meter used:





Item ref: 600.106UK

TSL01 DIGITAL MULTITESTER

The JCDecaux units tested in this report are two Communication Hub units in Stoke on a very sunny day. The levels of brightness and fan speeds are shown in the screen shots.



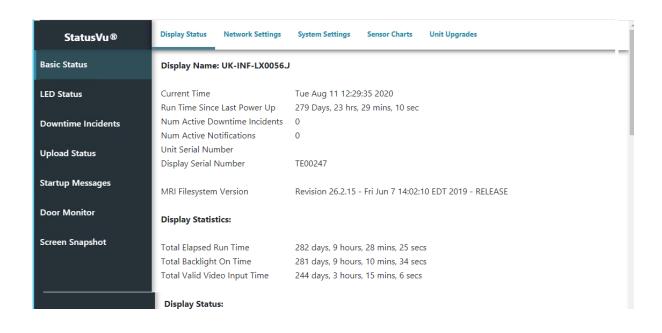


The recordings were taken by walking up to the units with the noise level meter from approximately 10 meters away and circling the unit, testing sound levels at different heights. Note: At approximately 10 meters distance the noise of the units was not discernible.

#### JCDecaux Hub Units

Stoke SOT7202DD





StatusVu®	Display Status Network Settings	System Settings Sensor Charts Unit Upgrades			
Basic Status	Ambient Light	19176 (full luminance @ 1500)			
	Ambient Light Sensor	19176			
LED Status	GeoVu™ Ambient Light	1500 (Day, ignored)			
	Cloud Cover (ambient reduction	n) 86% (ignored)			
Downtime Incidents	Sunrise Time	05:43:30			
	Sunset Time	20:43:00			
Upload Status					
	Display Luminance	3495 nits			
Startup Messages	Desired Luminance	3500 nits			
Stal tup Messages	Avg Backlight Reading	3919			
Door Monitor	Backlight PWM Setting	93.5 %			
Door Monitor	Backlight Dac Setting	58.0 %			
Screen Snapshot	Video Input:				
Source		Input 2 (DisplayPort)			
	Status	Valid Resolution			
	Resolution	1920x1080			
	Player 2 (DisplayPort):				
	Power LED	ON			

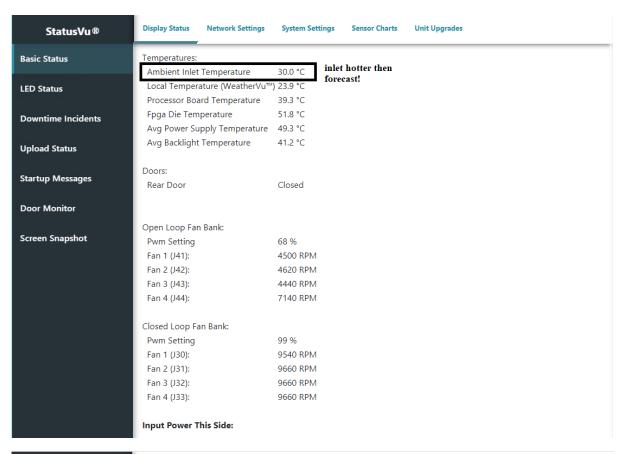
StatusVu®	Display Status Network Settings	System Settings	Sensor Charts	Unit Upgrades	
Basic Status	Temperatures:				
	Ambient Inlet Temperature	28.1 °C			
LED Status	Local Temperature (WeatherVu	™) 26.0 °C			
	Processor Board Temperature	38.0 °C			
Downtime Incidents	Fpga Die Temperature	50.3 °C			
	Avg Power Supply Temperature	46.8 °C			
Upload Status	Avg Backlight Temperature	39.8 °C			
	Doors:				
Startup Messages	Rear Door	Closed			
Door Monitor					
	Open Loop Fan Bank:				
Screen Snapshot	Pwm Setting	56 %			
	Fan 1 (J41):	3660 RPM			
	Fan 2 (J42):	3780 RPM			
	Fan 3 (J43):	3600 RPM			
	Fan 4 (J44):	6600 RPM			
	Closed Loop Fan Bank:				
	Pwm Setting	99 %			
	Fan 1 (J30):	9420 RPM			
	Fan 2 (J31):	9600 RPM			
	Fan 3 (J32):	9600 RPM			
	Fan 4 (J33):	9480 RPM			



Maximum noise recorded 72.4dB. The location of the maximum reading was in the centre of the unit just below the ad case door on the advertising face.

#### Stoke SOT7204DD





StatusVu®	1.7	letwork Settings	System Settings	Sensor Charts	Unit Upgrades
Basic Status	Ambient Light		19236 (full lumina	nce @ 1500)	
LED Status	Ambient Light Sensor GeoVu™ Ambient Light Cloud Cover (ambient reduction)		19237 1500 (Day, ignored) a) 33% (ignored)		
Downtime Incidents			05:40:15 20:29:57		
Upload Status	Display Luminan	ice	3505 nits		
Startup Messages	Desired Luminance Avg Backlight Reading		3500 nits 3832		
Door Monitor	Backlight PWM Setting Backlight Dac Setting		93.5 % 58.0 %		
Screen Snapshot	Video Input:				
	Source		Input 2 (DisplayPo	ort)	
	Status Resolution		Valid Resolution 1920x1080		
	Player 2 (DisplayP	ort):			
	Power LED		ON		
	Environmentals:				



Maximum noise recorded 73.5dB. The location of the maximum reading was in the centre of the unit just below the ad case door on the advertising face.

# Comparative Readings BT InLink

Junction of Newton St and Portland Street.







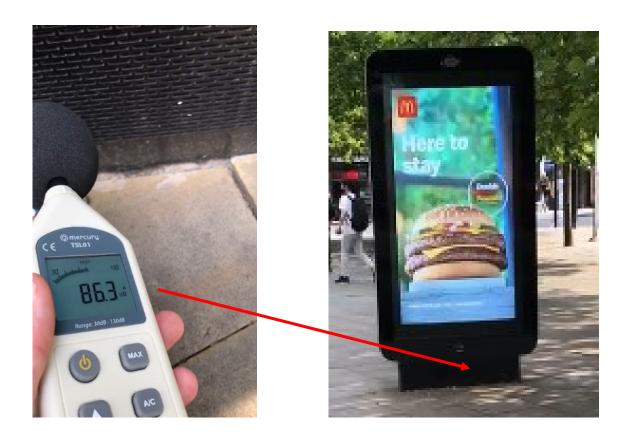
Maximum recording 83dB.

#### Ocean Outdoor

1. Portland Street near Pret a Manger



Maximum recording 86.3dB.



#### 2. Manchester Piccadilly Gardens





Maximum recording 84.9dB.



# Conclusions Nosie levels recorded

	Maximum Noise level	Approximate position of recording from ground.  (all located approximately at the centre of the unit  from right to left)
JCD Hub 1	72.4dB	455mm
JCD Hub 2	73.5dB	455mm
BT InLink	83dB	1200mm
Ocean 1	86.3dB	100mm
Ocean 2 with touchscreen	84.9dB	400mm

Ambient noise levels during the recordings tended to vary between 50-60dB.

All recordings were taken on sunny and hot days (above 25°C).

The perceived noise on the BT InLink product was considerably higher due to the height and direction of the noise (closer to ear level and directed frontward).

The JCDecaux units appeared considerably quieter due to the height and direction of the noise (lower and directed downwards).

Further tests would be required to determine exact levels but the above recordings appear to depict an accurate portrayal.