

Communication Hub

Noise Level Report

August 2020

Contents

Introduction	3
JCDecaux Communication Hub Unit	4
Stoke SOT7202DD	4
Stoke SOT7204DD	6
Comparative recordings.....	9
BT InLink – Manchester On junction of Newton St and Portland Street.	9
Ocean double sided digital screen – Manchester Top of Portland Street near Pret a Manger	11
Ocean double sided digital screen with touchscreen – Manchester Piccadilly Gardens	12
Conclusions	14

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

LED Status

Downtime Incidents

Upload Status

Startup Messages

Door Monitor

Screen Snapshot

Display Name: UK-INF-LX0056.J

Current Time

Tue Aug 11 12:29:35 2020

Run Time Since Last Power Up

279 Days, 23 hrs, 29 mins, 10 sec

Num Active Downtime Incidents

0

Num Active Notifications

0

Unit Serial Number

Display Serial Number

TE00247

MRI Filesystem Version

Revision 26.2.15 - Fri Jun 7 14:02:10 EDT 2019 - RELEASE

Display Statistics:

Total Elapsed Run Time

282 days, 9 hours, 28 mins, 25 secs

Total Backlight On Time

281 days, 9 hours, 10 mins, 34 secs

Total Valid Video Input Time

244 days, 3 hours, 15 mins, 6 secs

Display Status:

StatusVu®	Display Status	Network Settings	System Settings	Sensor Charts	Unit Upgrades
	Luminance:				
Basic Status	Ambient Light	19176 (full luminance @ 1500)			
	Ambient Light Sensor	19176			
LED Status	GeoVu™ Ambient Light	1500 (Day, ignored)			
	Cloud Cover (ambient reduction)	86% (ignored)			
Downtime Incidents	Sunrise Time	05:43:30			
	Sunset Time	20:43:00			
Upload Status	Display Luminance	3495 nits			
	Desired Luminance	3500 nits			
Startup Messages	Avg Backlight Reading	3919			
	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			
Startup Messages	Doors:				
	Rear Door	Closed			
Door Monitor	Open Loop Fan Bank:				
	Pwm Setting	56 %			
	Fan 1 (J41):	3660 RPM			
	Fan 2 (J42):	3780 RPM			
	Fan 3 (J43):	3600 RPM			
	Fan 4 (J44):	6600 RPM			
Screen Snapshot	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®

Display Status

Network Settings

System Settings

Sensor Charts

Unit Upgrades

Basic Status

LED Status

Downtime Incidents

Upload Status

Startup Messages

Door Monitor

Screen Snapshot

Temperatures:

Ambient Inlet Temperature

30.0 °C

Local Temperature (WeatherVu™) 23.9 °C

Processor Board Temperature 39.3 °C

Fpga Die Temperature 51.8 °C

Avg Power Supply Temperature 49.3 °C

Avg Backlight Temperature 41.2 °C

Doors:

Rear Door

Closed

Open Loop Fan Bank:

Pwm Setting

68 %

Fan 1 (J41): 4500 RPM

Fan 2 (J42): 4620 RPM

Fan 3 (J43): 4440 RPM

Fan 4 (J44): 7140 RPM

Closed Loop Fan Bank:

Pwm Setting

99 %

Fan 1 (J30): 9540 RPM

Fan 2 (J31): 9660 RPM

Fan 3 (J32): 9660 RPM

Fan 4 (J33): 9660 RPM

Input Power This Side:

inlet hotter than forecast!

StatusVu®	Display Status	Network Settings	System Settings	Sensor Charts	Unit Upgrades
Basic Status	Luminance:				
	Ambient Light	19236 (full luminance @ 1500)			
LED Status	Ambient Light Sensor	19237			
	GeoVu™ Ambient Light	1500 (Day, ignored)			
	Cloud Cover (ambient reduction)	33% (ignored)			
Downtime Incidents	Sunrise Time	05:40:15			
	Sunset Time	20:29:57			
Upload Status					
	Display Luminance	3505 nits			
Startup Messages	Desired Luminance	3500 nits			
	Avg Backlight Reading	3832			
	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			
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.





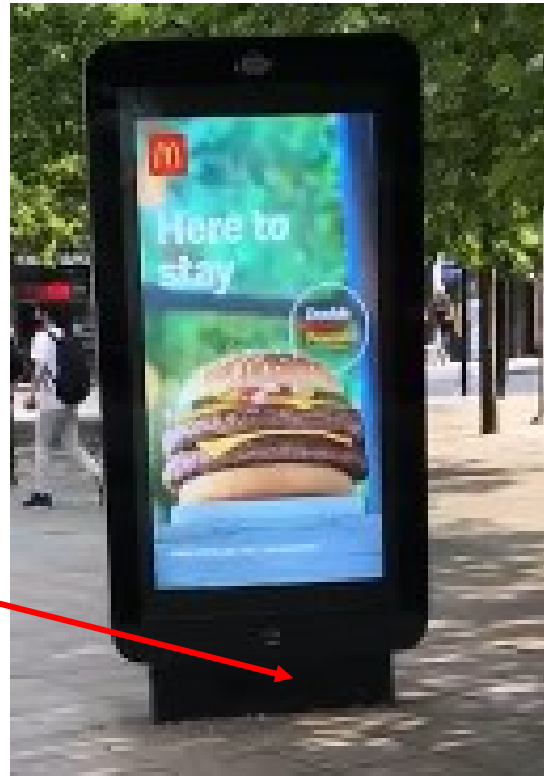
Maximum recording 83dB.

Ocean Outdoor

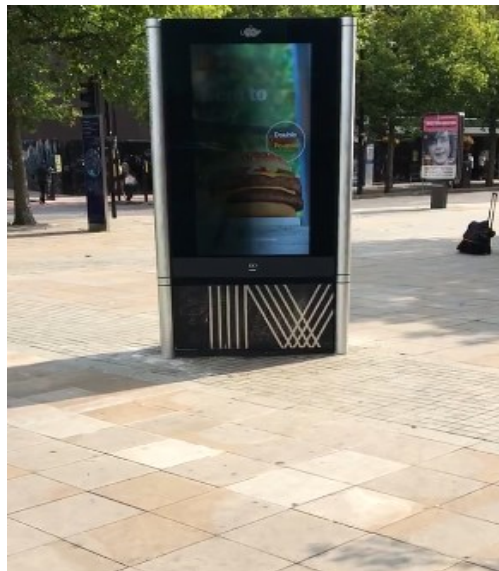
1. Portland Street near Pret a Manger



Maximum recording 86.3dB.



2. Manchester Piccadilly Gardens





Maximum recording 84.9dB.

Conclusions

Noise 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.