

Annex 1: Measurement diagrams to TEST REPORT

No.: 16-1-0181301T08

According to:

**FCC Regulations** 

Part 15.107 Part 15.109

**ISED Regulations** 

ICES-003, Issue 6 RSS-Gen, Issue 4

for

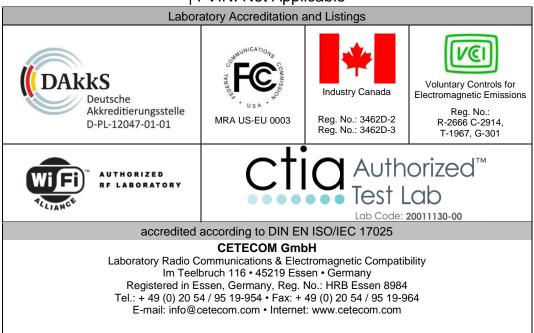
Datalogic S.r.l.

# JOYA TOUCH A6 Type: E00AN04HL0HT0AN-GB0

FCC ID: U4GJTAWB

IC: 3862E-JTAWB PMN: JOYA TOUCH A6 | HVIN: JTAWB GUN, JTAWB HH

| FVIN: Not Applicable





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# 1. Radiated Field Strength Measurements

## 1.1. Conducted Emissions on AC-Power lines – 150kHz to 30 MHz

## Diagram No.: 1.01 Mode 1

#### **Common Information**

Test Description: Conducted Voltage Measurement Class B
Test Site & Location: Conducted Emission, CETECOM GmbH Essen

Test Software: R&S EMC32 v9.15

Test Specification: FCC 15.109 Class B | RSS-Gen. Issue 4 | ICES-003 Issue 6 Class B

Operating Mode: Mode 1
Measured on line: N/L1

Diagram details: Shows the peak values as a sum of measured ports in maxhold mode

Environmental Conditions: Humidity: 47%rH; Temperature: 21°C

Operator: H Comments:

EUT Information

Manufacturer: Datalogic ADCL S.r.l.
MODEL: JOYA TOUCH ANDROID

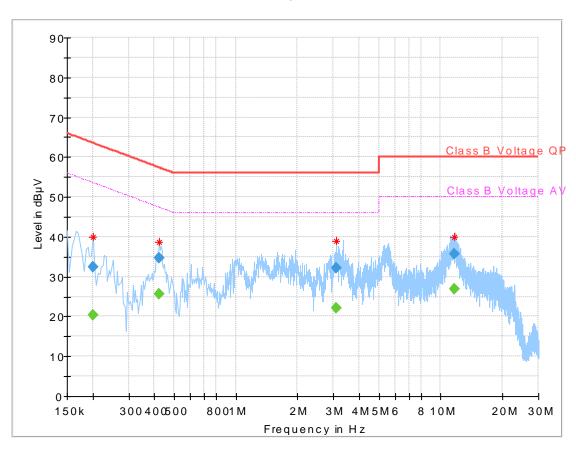
 P/N:
 911350037

 S/N:
 Z17P01278

 HW Version:
 Beta

SW Version: Andoriod 6.0.1 Firmware Version:1.26 TBD

Input: 120CAC/60Hz over Charger





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Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)
0.200781		20.43	53.58
0.200781	32.50		63.58
0.423438	34.77		57.38
0.423438		25.67	47.38
3.103125	32.17		56.00
3.103125		22.05	46.00
11.638281		26.87	50.00
11.638281	35.78		60.00



# 1.2. Radiated Field Strength Emissions – 30 MHz to 1 GHz Diagram No. 3.01\_Mode1

Date: 12.06.2017 Page 1 of 1

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic Room (SAR) with 3m measurement distance

Version of Testsoftware: EMC32 V9.25.0 Distance correction: entry used

Technical Data: Please see page 2 for detailed data of measurement setup

Used filter: not used

Test specification: FCC15.109, class B; RSS-Gen.: Issue 4

Operator: MBe
Operating conditions: MBe

Measured sides of EUT: front, right, rear, left, top, bot

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l.
MODEL: JOYA TOUCH ANDROID

EuT Type:

 P/N:
 911350036

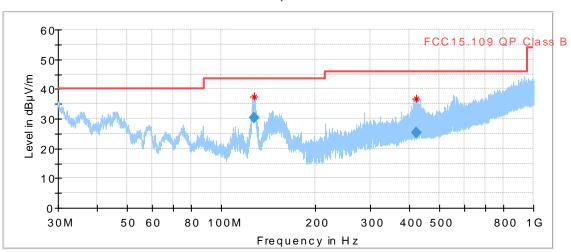
 S/N:
 Z17P0118978

 HW Version:
 Beta

SW Version: Andoriod 6.0.1 Firmware Version:1.26 TBD

Input: Internal Battery

#### Full Spectrum



Frequenc y (MHz)	Quasi Peak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Elevatio n (deg)	Corr (dB)
127.19000 0	30.43	43.50	13.07	1000.0	120.000	108.0	V	95.0	0.0	8.5
421.58200 0	25.20	46.00	20.80	1000.0	120.000	360.0	V	330.0	90.0	18.9



# Diagram No. 3.02\_Mode2

Date: 12.06.2017 Page 1 of 1

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance

Version of Testsoftware: EMC32 V9.25.0 Distance correction: entry used

Technical Data: Please see page 2 for detailed data of measurement setup

Used filter: not used

Test specification: FCC15.109, class B; RSS-Gen.: Issue 4

Operator: MBe
Operating conditions: MBe
Mode 2

Measured sides of EUT: front, right, rear, left, top, bot

## **EUT Information**

Manufacturer: Datalogic ADCL S.r.l.
MODEL: JOYA TOUCH ANDROID

EuT Type:

 P/N:
 911350036

 S/N:
 Z17P0118978

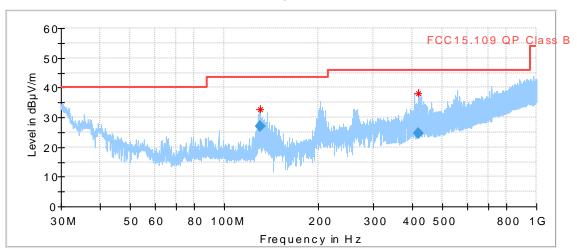
 HW Version:
 Beta

SW Version: Andoriod 6.0.1

Firmware Version:1.26 TBD

Input: Internal Battery

#### Full Spectrum



Frequenc y (MHz)	Quasi Peak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Elevatio n (deg)	Corr (dB)
130.29400 0	26.88	43.50	16.62	1000.0	120.000	145.0	Н	148.0	90.0	9.0
419.08200 0	24.56	46.00	21.44	1000.0	120.000	346.0	٧	244.0	90.0	18.8



# Diagram No. 3.03\_Mode3

Date: 12.06.2017 Page 1 of 1

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance

Version of Testsoftware: EMC32 V9.25.0 Distance correction: entry used

Technical Data: Please see page 2 for detailed data of measurement setup

Used filter: not used

Test specification: FCC15.109, class B; RSS-Gen.: Issue 4

Operator: MBe
Operating conditions: MBe
Mode 3

Measured sides of EUT: front, right, rear, left, top , bot

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l.
MODEL: JOYA TOUCH ANDROID

EuT Type:

 P/N:
 911350036

 S/N:
 Z17P0118978

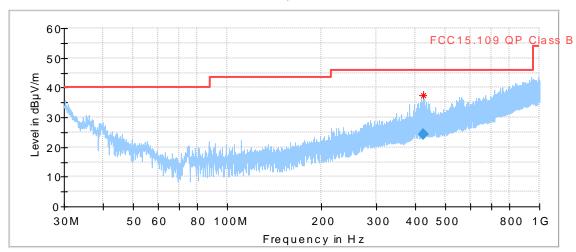
 HW Version:
 Beta

SW Version: Andoriod 6.0.1

Firmware Version:1.26 TBD

Input: Internal Battery

#### Full Spectrum



Frequenc y (MHz)	Quasi Peak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Elevatio n (deg)	Corr (dB)
425.03800 0	24.11	46.00	21.89	1000.0	120.000	349.0	٧	289.0	0.0	19.2



# 1.3. Radiated Field Strength Emissions – 1 GHz to 18 GHz 4.01\_Mode3

#### **Common Information**

Test Description:

Radiated Filed Strength Emission

CETECOM GmbH Essen

Test Site:

Fully Anechoic Room (FAR)

Test Standard: FCC Part 15.109, class B / RSS-Gen., Issue 4

Operating Mode: Mode 3 Equipment Class: Class B

Environmental Conditions: Humidity: 50%rH; Temperature: 19°C

Operator: Ma

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l.
MODEL: JOYA TOUCH ANDROID

EuT Type:

 P/N:
 911350036

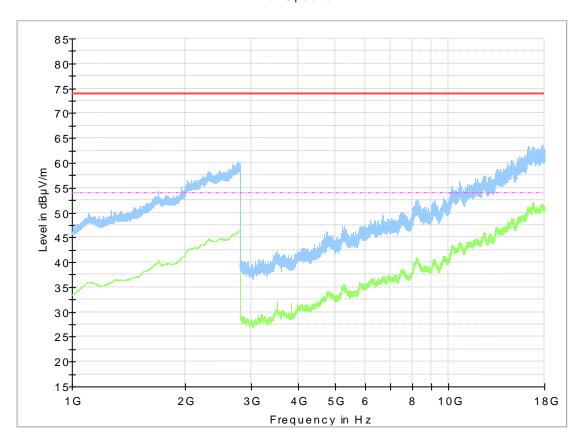
 S/N:
 Z17P0118978

 HW Version:
 Beta

 SW Version:
 Andoriod 6.0.1

 Firmware Version:1.26
 TBD

 Input:
 Internal Battery





# Diagram No. 4.02 Mode 2 4.02\_Mode1

#### **Common Information**

Test Description: Radiated Filed Strength Emission Test Site Location: CETECOM GmbH Essen Test Site: Fully Anechoic Room (FAR)

Test Standard: FCC Part 15.109, class B / RSS-Gen., Issue 4

Operating Mode: Mode 1 Equipment Class: Class B

**Environmental Conditions:** Humidity: 50%rH; Temperature: 19°C

Operator:

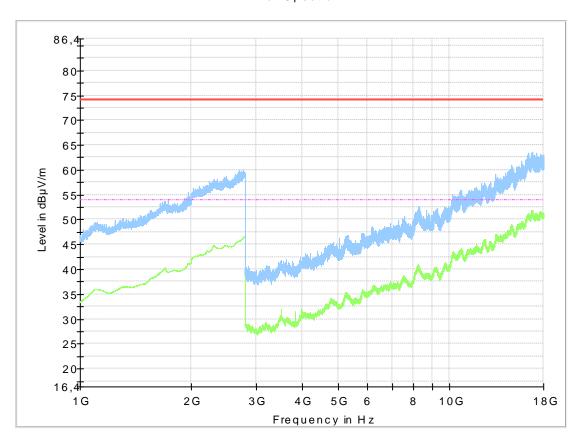
#### **EUT Information**

Datalogic ADCL S.r.l. Manufacturer: MODEL: JOYA TOUCH ANDROID

EuT Type:

P/N: 911350036 S/N: Z17P0118978 HW Version: Beta SW Version: Andoriod 6.0.1 Firmware Version:1.26 TBD

Input: Internal Battery





# 4.03\_Mode2

#### **Common Information**

Test Description:

Radiated Filed Strength Emission

CETECOM GmbH Essen

Test Site:

Fully Anechoic Room (FAR)

Test Standard: FCC Part 15.109, class B / RSS-Gen., Issue 4

Operating Mode: Mode 2 Equipment Class: Class B

Environmental Conditions: Humidity: 50%rH; Temperature: 19°C

Operator: TF

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH ANDROID

EuT Type:

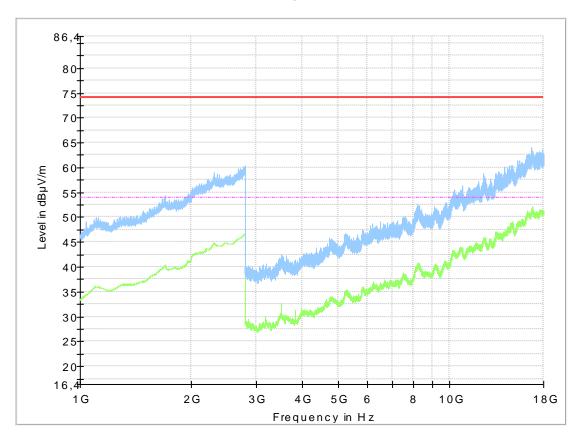
P/N: 911350036 S/N: Z17P0118978

HW Version: Beta

SW Version: Andoriod 6.0.1

Firmware Version:1.26 TBD

Input: Internal Battery





# 1.4. Radiated Field Strength Emissions – 18 GHz to 40 GHz Diagram No.: 4.01a Mode 3

#### **Common Information**

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC15.109, Class B | RSS-Gen. Issue 4 | ICES-003 Issue 6 Class B

Antenna polarisation: horizontal/vertical

Distance correction factor 3 to 1m: -10.5 dB applying to measurement results

SW-Version: EMC32 V8.53.0 Operation mode: TX mode continuous

Operator Name: TFr
Operating conditions: Mode 1

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l.
MODEL: JOYA TOUCH ANDROID

EuT Type: P/N: 911350036
S/N: Z17P0118978

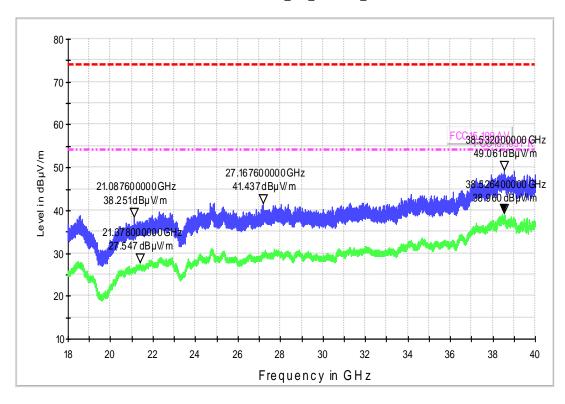
S/N: Z17P0 HW Version: Beta

SW Version: Andoriod 6.0.1

Firmware Version:1.26 TBD

Input: Internal Battery

### EMIScan\_18\_40GHz\_Pre





# Diagram No.: 4.02a Mode 1

#### **Common Information**

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC15.109, Class B | RSS-Gen. Issue 4 | ICES-003 Issue 6 Class B

Antenna polarisation: horizontal/vertical

Distance correction factor 3 to 1m: -10.5 dB applying to measurement results

SW-Version: EMC32 V8.53.0 Operation mode: TX mode continuous

Operator Name: TFr
Operating conditions: mode 2

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH ANDROID

EuT Type:

 P/N:
 911350036

 S/N:
 Z17P0118978

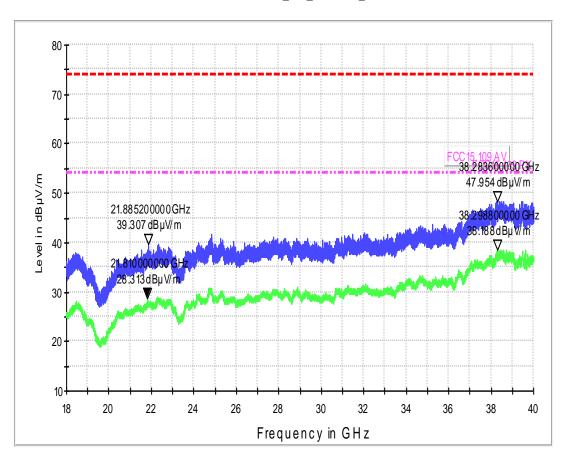
 HW Version:
 Beta

 SW Version:
 Andoriod 6.0.1

 Firmware Version:1.26
 TBD

Input: Internal Battery

## EMIScan\_18\_40GHz\_Pre





# Diagram No.: 4.03a Mode 3

#### **Common Information**

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC15.109, Class B | RSS-Gen. Issue 4 | ICES-003 Issue 6 Class B

Antenna polarisation: horizontal/vertical

Distance correction factor 3 to 1m: -10.5 dB applying to measurement results

SW-Version: EMC32 V8.53.0 Operation mode: TX mode continuous

Operator Name: TFr
Operating conditions: Mode 3

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH ANDROID

EuT Type:

 P/N:
 911350036

 S/N:
 Z17P0118978

 HW Version:
 Beta

 SW Version:
 Andoriod 6.0.1

 Firmware Version:1.26
 TBD

Input: Internal Battery

## EMIScan\_18\_40GHz\_Pre

