

Annex 1: Measurement diagrams to  
**TEST REPORT**  
 No.: 17-1-0021101T14

According to:  
**FCC Regulations**  
 Part 15.107, Part 15.109







**IC-Regulations**  
 RSS-Gen, Issue 4

for

Leica Camera AG

Digital Camera  
 Type No. 6847

FCC-ID: N5A6847

| Laboratory Accreditation and Listings  |   |   |
|--|---|---|
| <br>Deutsche<br>Akkreditierungsstelle<br>D-PL-12047-01-01<br><br>Accredited EMC-Test Laboratory   | <br>Industry Canada<br>Reg. No.: 3462D-1<br>Reg. No.: 3462D-2<br>Reg. No.: 3462D-3 | <br>Voluntary Controls for Electromagnetic<br>Emissions<br><br>Reg. No.:<br>R-4552, C-20009,<br>T-20006, G-20013 |
|  <b>WiFi</b><br>ALLIANCE<br>AUTHORIZED<br>RF LABORATORY   | <br><b>ctia</b> Authorized™<br>Test Lab<br>Lab Code: 20011130-00                   | <br>FEDERAL COMMUNICATIONS COMMISSION<br>U.S.A. • MEXICO<br>MRA US-EU 0003                                       |
| accredited according to DIN EN ISO/IEC 17025   |   |   |
| <p align="center"> <b>CETECOM GmbH</b><br/>           Laboratory Radio Communications &amp; Electromagnetic Compatibility<br/>           Im Teelbruch 116 • 45219 Essen • Germany<br/>           Registered in Essen, Germany, Reg. No.: HRB Essen 8984<br/>           Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964<br/>           E-mail: info@cetecom.com • Internet: www.cetecom.com         </p> |   |   |

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# 1. Measurement diagrams

## 1.1. Conducted emissions on AC-mains (120V/60Hz)

### 1.1.1. Part 15B: Video-Mode

### Diagram No. 1.01

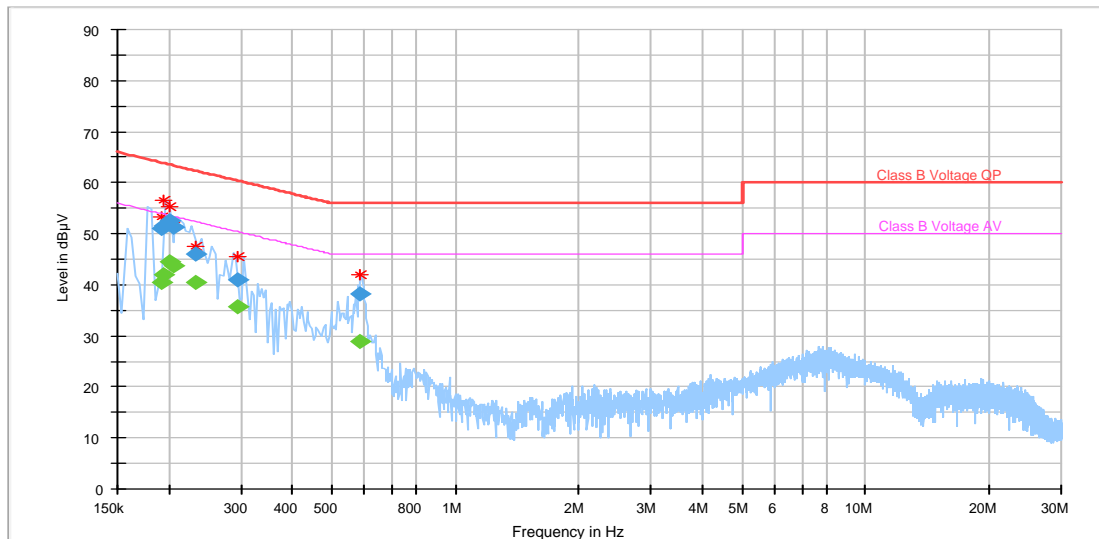
#### Common Information

|                           |  |
|---------------------------|--|
| 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 15.107, FCC 15.207   |
| Operating Mode:           | Video mode   |
| Measured on line:         | N/L1   |
| Diagram details:          | Shows the peak values as a sum of measured ports in maxhold mode |
| Environmental Conditions: | Humidity: 42%rH; Temperature: 22°C                               |
| Operator:                 | Mar  |

#### EUT Information

|               |                            |
|---------------|----------------------------|
| Manufacturer: | Leica Camera AG            |
| Model:        | Digital Camera             |
| Type:         | 6847                       |
| -----         |                            |
| SW:           | 0.17.50.9                  |
| HW:           | 1745-0001-0000 / 1801-0101 |
| Ser-No:       | P-016                      |
| Power Supply: | 120VAC/60Hz                |

Full Spectrum



#### Final Result

| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) |
|-----------------|------------------|-----------------|--------------|
| 0.191094        | 51.07            | ---             | 63.99        |
| 0.191094        | ---              | 40.53           | 53.99        |
| 0.194375        | 51.45            | ---             | 63.85        |
| 0.194375        | ---              | 42.00           | 53.85        |
| 0.199844        | ---              | 44.55           | 53.62        |
| 0.199844        | 52.62            | ---             | 63.62        |
| 0.205625        | ---              | 43.70           | 53.38        |
| 0.205625        | 51.41            | ---             | 63.38        |
| 0.232969        | ---              | 40.35           | 52.34        |
| 0.232969        | 45.88            | ---             | 62.34        |
| 0.293750        | ---              | 35.62           | 50.42        |
| 0.293750        | 41.09            | ---             | 60.42        |
| 0.585000        | ---              | 28.86           | 46.00        |
| 0.585000        | 38.33            | ---             | 56.00        |

## 1.2. Radiated emissions in the frequency range 30 to 1000MHz

### 1.2.1. Part 15B: Video Mode

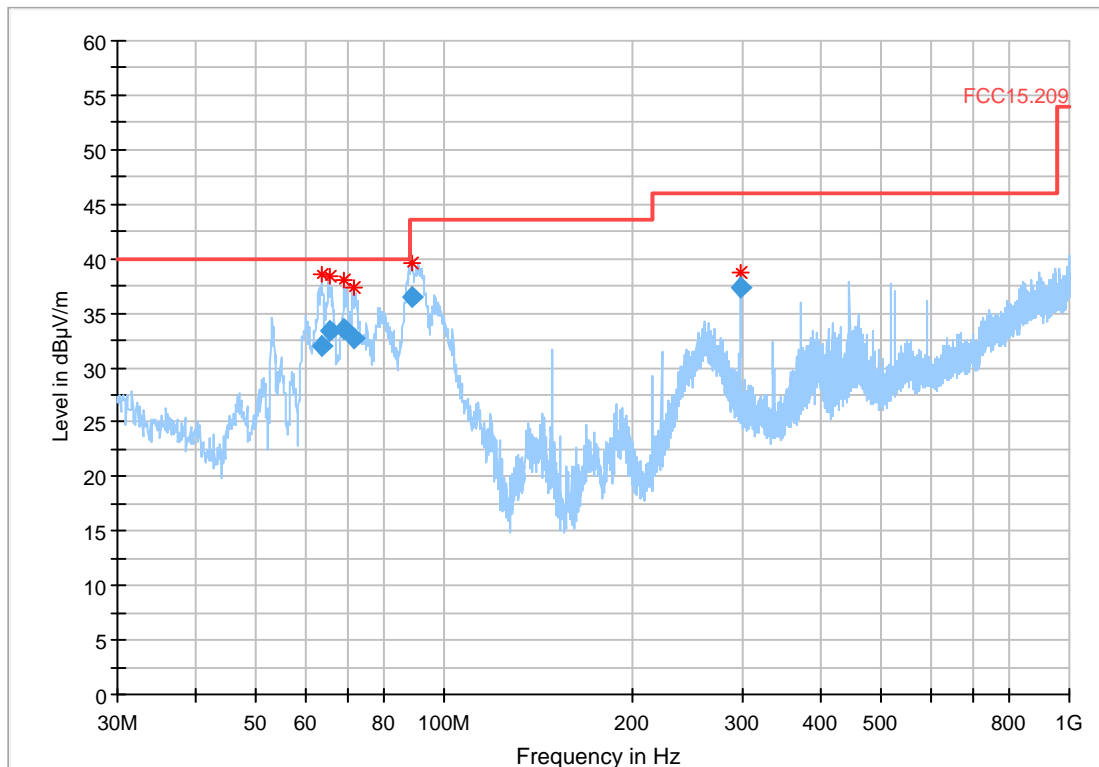
#### Diagram No. 3.01

|                          |   |
|--------------------------|---|
| Test description:        | 24.01.2018 Page 1 of 1  |
| Test site and distance:  | Electric Field Strength Measurement                                 |
| Version of Testsoftware: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Distance correction:     | EMC32 V9.25.0   |
| Used filter:             | not used  |
| Test specification.:     | not used  |
| Operator:                | FCC 15.109/15.205; RSS-Gen., Issue 4                                |
| Operating conditions:    | MBe   |
| Power during tests:      | Video mode  |
|                          | 120V/60Hz / full battery  |

#### EUT Information

|               |                            |
|---------------|----------------------------|
| Manufacturer: | Leica Camera AG            |
| Model:        | Digital Camera             |
| Type:         | 6847                       |
| -----         |                            |
| SW:           | 0.17.50.9                  |
| HW:           | 1745-0001-0000 / 1801-0101 |
| Ser-No:       | P-016                      |
| Power Supply: | 230VAC                     |

Full Spectrum



#### Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 63.66000        | 32.07              | 40.00          | 1000.0          | 120.000         | 133.0       | V   | 286.0         | 7.7        |
| 65.53000        | 33.39              | 40.00          | 1000.0          | 120.000         | 218.0       | V   | 304.0         | 7.1        |
| 69.18000        | 33.53              | 40.00          | 1000.0          | 120.000         | 128.0       | V   | 339.0         | 6.6        |
| 71.64000        | 32.63              | 40.00          | 1000.0          | 120.000         | 136.0       | V   | 295.0         | 6.6        |
| 88.51000        | 36.41              | 43.50          | 1000.0          | 120.000         | 105.0       | V   | 116.0         | 8.1        |
| 297.0100        | 37.36              | 46.00          | 1000.0          | 120.000         | 113.0       | H   | 136.0         | 15.0       |

### 1.3. Radiated emissions in the frequency range above 1000MHz

#### 1.3.1. Part 15B – Video Mode

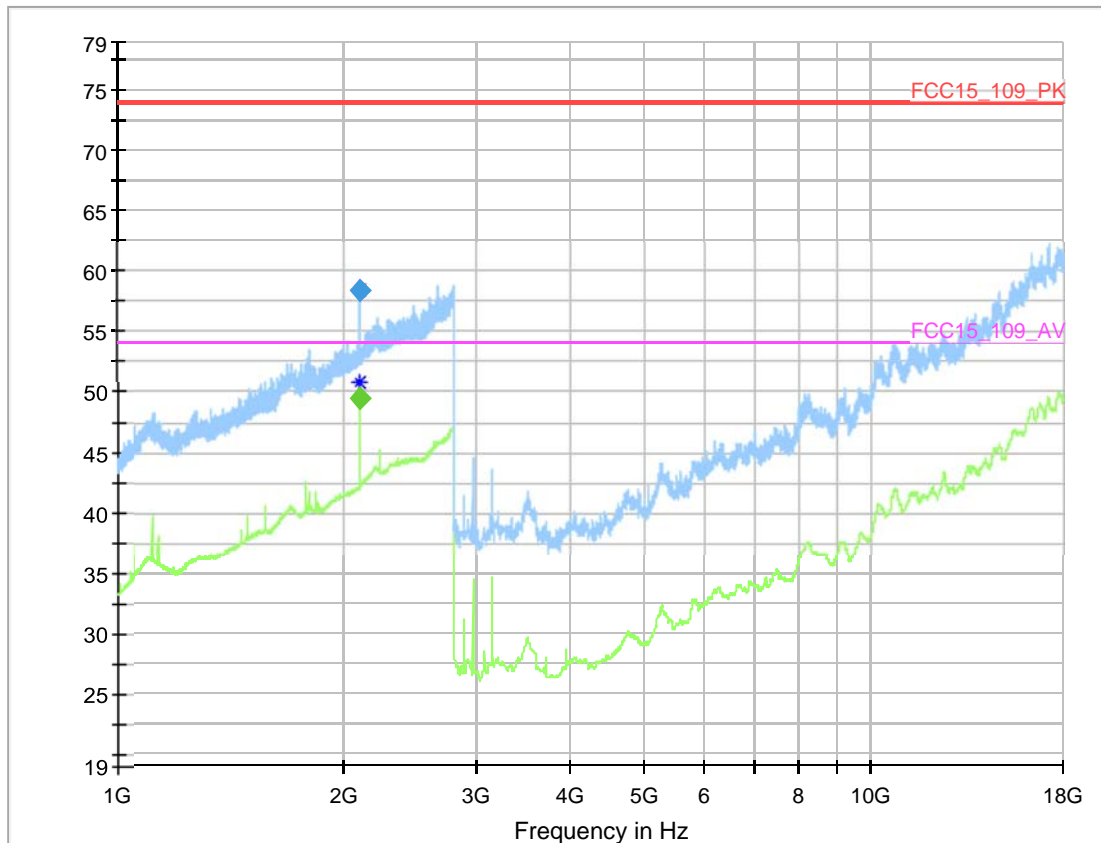
### Diagram No. 4.01

#### Common Information

|                          |                                      |
|--------------------------|--------------------------------------|
| Test Site:               | CETECOM GmbH Essen                   |
| Version of Testsoftware: | EMC32 V9.25.0                        |
| Distance correction:     | not used                             |
| Used filter:             | not used                             |
| Test specification.:     | FCC 15.109/15.205; RSS-Gen., Issue 4 |
| Operator:                | MBe                                  |
| Operating conditions:    | Video mode                           |
| Power during tests:      | 120V/60Hz / full battery             |

#### EUT Information

|               |                            |
|---------------|----------------------------|
| Manufacturer: | Leica Camera AG            |
| Model:        | Digital Camera             |
| Type:         | 6847                       |
| -----         |                            |
| SW:           | 0.17.50.9                  |
| HW:           | 1745-0001-0000 / 1801-0101 |
| Ser-No:       | P-016                      |



#### Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-------------|-----|---------------|-----------------|------------|
| 2099.882000     | 58.39            | 74.00          | 15.61       | 1000.000        | 155.0       | H   | 7.0           | 0.0             | 34.1       |
| 2099.957000     | ---              | 54.00          | 3.92        | 1000.000        | 155.0       | H   | 7.0           | 0.0             | 34.1       |

## Diagram No. 4.02

### Common Information

|                          |                                      |
|--------------------------|--------------------------------------|
| Test Site:               | CETECOM GmbH Essen                   |
| Version of Testsoftware: | EMC32 V9.25.0                        |
| Distance correction:     | not used                             |
| Used filter:             | not used                             |
| Test specification.:     | FCC 15.109/15.205; RSS-Gen., Issue 4 |
| Operator:                | MBe                                  |
| Operating conditions:    | Video mode                           |
| Power during tests:      | 120V/60Hz / full battery             |

### EUT Information

|               |                            |
|---------------|----------------------------|
| Manufacturer: | Leica Camera AG            |
| Model:        | Digital Camera             |
| Type:         | 6847                       |
| -----         |                            |
| SW:           | 0.17.50.9                  |
| HW:           | 1745-0001-0000 / 1801-0101 |
| Ser-No:       | P-016                      |

FCC\_Sweep\_15.109B\_18\_40GHz\_Pre

