



LED LIGHT SOURCE

USER MANUAL

Manual version: 1.0.1

Product codes: G2008B/C, G2011, G2012

Product Version: 1.0

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1. EU Declaration of Conformity

We

Company Name: Ossila BV

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Country: The Netherlands

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declare that the DoC is issued under our sole responsibility and belongs to the following product:

Product: LED Light Source (G2008B1, G2008C1, G2011A1, G2011B1, G2011C1, G2011D1, G2011E1, G2011F1, G2011G1, G2012A1, G2012B1, G2012C1, G2012D1, G2012E1, G2012F1, G2012G1)

Object of declaration:

LED Light Source (G2008B1, G2008C1, G2011A1, G2011B1, G2011C1, G2011D1, G2011E1, G2011F1, G2011G1, G2012A1, G2012B1, G2012C1, G2012D1, G2012E1, G2012F1, G2012G1)

The object of declaration described above is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

Signed:



Name: Dr James Kingsley

Place: Leiden

Date: 22/03/2024

Декларация за съответствие на ЕС

Производител: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Декларира с цялата си отговорност, че посоченото оборудване съответства на приложимото законодателство на ЕС за хармонизиране, посочено на предходната(-ите) страница(-и) на настоящия документ.

[Čeština] Prohlášení o shodě EU

Výrobce: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Prohlašujeme na vlastní odpovědnost, že uvedené zařízení je v souladu s příslušnými harmonizačními předpisy EU uvedenými na předchozích stranách tohoto dokumentu.

[Dansk] EU-overensstemme Iserklæring

Producent: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Erklærer herved, at vi alene er ansvarlige for, at det nævnte udstyr er i overensstemmelse med den relevante EU-harmoniseringslovgivning, der er anført på den/de foregående side(r) i dette dokument.

[Deutsch] EU-Konformitätserklärung

Hersteller: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Wir erklären in alleiniger Verantwortung, dass das aufgeführte Gerät konform mit der relevanten EU-Harmonisierungsgesetzgebung auf den vorangegangenen Seiten dieses Dokuments ist.

[Eesti keel] ELi vastavusavaldus

Tootja: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Kinnitame oma ainuvastutusel, et loetletud seadmed on kooskõlas antud dokumendi eelmisel leheküljel / eelmistel lehekülgedel ära toodud asjaomaste ELi ühtlustamise õigusaktidega.

[Ελληνικά] Δήλωση πιστότητας ΕΕ

Κατασκευαστής: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Δηλώνουμε υπεύθυνα ότι ο αναφερόμενος εξοπλισμός συμμορφώνεται με τη σχετική νομοθεσία εναρμόνισης της ΕΕ που υπάρχει στις προηγούμενες σελίδες του παρόντος εγγράφου.

[Español] Declaración de conformidad UE

Fabricante: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Declaramos bajo nuestra única responsabilidad que el siguiente producto se ajusta a la pertinente legislación de armonización de la UE enumerada en las páginas anteriores de este documento.

[Français] Déclaration de conformité UE

Fabricant: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Déclarons sous notre seule responsabilité que le matériel mentionné est conforme à la législation en vigueur de l'UE présentée sur la/les page(s) précédente(s) de ce document.

[Hrvatski] E.U izjava o sukladnosti

Proizvođač: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Izjavljujemo na vlastitu odgovornost da je navedena oprema sukladna s mjerodavnim zakonodavstvom EU-a o usklađivanju koje je navedeno na prethodnoj(nim) stranici(ama) ovoga dokumenta.

[Italiano] Dichiarazione di conformità UE

Produttore: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Si dichiara sotto la propria personale responsabilità che l'apparecchiatura in elenco è conforme alla normativa di armonizzazione UE rilevante indicata nelle pagine precedenti del presente documento.

[Latviešu] ES atbils tības deklarācija

Ražotājs: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Ar pilnu atbildību paziņojam, ka uzskaitītais aprīkojums atbilst attiecīgajiem ES saskaņošanas tiesību aktiem, kas minēti iepriekšējās šī dokumenta lapās.

[Lietuvių k.] ES atitikties deklaracija

Gamintojas: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

atsakingai pareiškia, kad išvardinta įranga atitinka aktualius ES harmonizavimo teisės aktus, nurodytus ankstesniuose šio dokumento

[Magyar] EU-s megfelelőségi nyilatkozat

Gyártó: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Kizárólagos felelősségünk mellett kijelentjük, hogy a felsorolt eszköz megfelel az ezen dokumentum előző oldalán/oldalain található EU-s összehangolt jogszabályok vonatkozó rendelkezéseinek.

[Nederlands] EU-Conformiteitsverklaring

Fabrikant: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Verklaart onder onze uitsluitende verantwoordelijkheid dat de vermelde apparatuur in overeenstemming is met de relevante harmonisatiewetgeving van de EU op de vorige pagina('s) van dit document.

[Norsk] EU-samsvarserklæring

Produsent: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Erklærer under vårt eneansvar at utstyret oppført er i overholdelse med relevant EU-harmoniseringslovverk som står på de(n) forrige siden(e) i dette dokumentet.

[Polski] Deklaracja zgodności Unii Europejskiej

Producent: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Oświadczamy na własną odpowiedzialność, że podane urządzenie jest zgodne ze stosownymi przepisami harmonizacyjnymi Unii Europejskiej, które przedstawiono na poprzednich stronach niniejszego dokumentu.

[Por tuguês] Declaração de Conformidade UE

Fabricante: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Declara sob sua exclusiva responsabilidade que o equipamento indicado está em conformidade com a legislação de harmonização relevante da UE mencionada na(s) página(s) anterior(es) deste documento.

[Română] Declarație de conformitate UE

Producător: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Declară pe proprie răspundere că echipamentul prezentat este în conformitate cu prevederile legislației UE de armonizare aplicabile prezentate la pagina/paginile anterioare a/ale acestui document.

[Slovensky] Vyhlásenie o zhode pre EÚ

Výrobca: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Na vlastnú zodpovednosť prehlasuje, že uvedené zariadenie je v súlade s príslušnými právnymi predpismi EÚ o harmonizácii uvedenými na predchádzajúcich stranách tohto dokumentu.

[Slovenščina] Izjava EU o skladnosti

Proizvajalec: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

s polno odgovornostjo izjavlja, da je navedena oprema skladna z veljavno uskladitveno zakonodajo EU, navedeno na prejšnji strani/prejšnjih straneh tega dokumenta.

[Suomi] EU-vaatimusten mukaisuusvakuutus

Valmistaja: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Vakuutamme täten olevamme yksin vastuussa siitä, että tässä asiakirjassa luetellut laitteet ovat tämän asiakirjan sivuilla edellisillä sivuilla kuvattujen olennaisten yhdenmukaistamista koskevien EU-säädösten vaatimusten mukaisia.

[Svenska] EU-försäkran om överensstämmelse

Tillverkare: Ossila BV, Biopartner 3 building, Galileiweg 8, 2333 BD Leiden, NL.

Vi intygar härmed att den utrustning som förtecknas överensstämmer med relevanta förordningar gällande EU-harmonisering som finns på föregående sidor i detta dokument.

2. Specifications

Table 2.1. LED Light Source specifications

Product Code	Wavelength	Optical power
G2008B1	375 nm	>35 mW
G2008C1	405 nm	>55 mW
G2011A1	450 nm	>35 mW
G2011B1	490 nm	>11 mW
G2011C1	520 nm	>13 mW
G2011D1	550 nm	>4 mW
G2011E1	590 nm	>5 mW
G2011F1	620 nm	>12 mW
G2011G1	670 nm	>23 mW
G2012A1	700 nm	>23 mW
G2012B1	740 nm	>15 mW
G2012C1	770 nm	>5 mW
G2012D1	800 nm	>16 mW
G2012E1	850 nm	>21 mW
G2012F1	910 nm	>19 mW
G2012G1	980 nm	>20 mW

3. Safety

3.1 Warning

The Ossila LED Light Sources have an assigned risk group classified under the IEC/EN 62471 (Photobiological Safety of Lamps and Lamp Systems) Standard. The risk group classifications are listed below. **Do not look directly into the source. Avoid skin and eye exposure.**

Product Code	Risk Group(s)	Warning(s)
G2008B1	Actinic UV – High risk Eye UV-A – Low risk	WARNING. UV emitted from this product. Avoid eye and skin exposure to unshielded products.
G2008C1	Actinic UV – High risk Blue light – Low risk	WARNING. UV emitted from this product. Avoid eye and skin exposure to unshielded products.
G2011A1	Actinic UV – Moderate risk Blue light – Low risk	CAUTION. UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding.
G2011B1	Actinic UV – Low risk Blue light – Low risk	NOTICE. UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding.
G2011C1	Actinic UV – Low risk Blue light – Low risk	NOTICE. UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding.
G2011D1	Actinic UV – Low risk	NOTICE. UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding.
G2011E1	Exempt	N/A
G2011F1	Actinic UV – Moderate risk	CAUTION. UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding.
G2011G1	Actinic UV – Moderate risk	CAUTION. UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding.
G2012A1	Actinic UV – Moderate risk	CAUTION. UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding.
G2012B1	Actinic UV – Moderate risk	CAUTION. UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding.
G2012C1	Actinic UV – Low risk	NOTICE. UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding.

Product Code	Risk Group(s)	Warning(s)
G2012D1	Actinic UV – Moderate risk	CAUTION. UV emitted from this product. Eye or skin irritation may result from exposure. Use appropriate shielding.
G2012E1	Actinic UV – Low risk	NOTICE. UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding.
G2012F1	Actinic UV – Low risk	NOTICE. UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding.
G2012G1	Actinic UV – Low risk	NOTICE. UV emitted from this product. Minimize exposure to eyes and skin. Use appropriate shielding.

3.2 Use of Equipment

The Ossila LED Light Sources are designed to be used as instructed. It is intended for use under the following conditions:

- Indoors in a laboratory environment (Pollution Degree 2).
- Altitudes up to 2000m.
- Temperatures of 5°C to 40°C; maximum relative humidity of 80% up to 31°C.

3.3 Servicing

If servicing is required, please return the unit to Ossila Ltd. The warranty will be invalidated if:

- Modification or service has taken place by anyone other than an Ossila engineer.
- The Unit has been subjected to chemical damage through improper use.
- The Unit has been operated outside the usage parameters stated in the user documentation associated with the Unit.
- The Unit has been rendered inoperable through accident, misuse, contamination, improper maintenance, modification, or other external causes.

4. Unpacking

4.1 Packing List

The standard items included with the Ossila UV Light are:

- Ossila LED Light Source.
- USB type-C cable.



Figure 4.1. Ossila LED Light Source.



Figure 4.2. USB type-A to type-C cable.

4.2 Damage Inspection

Examine the components for evidence of shipping damage. If damage has occurred, please contact Ossila directly for further action.

5. Operation

The Ossila LED Light Source is powered by a USB type-C cable supplying 5 V at 100 mA. Any PC USB port or plug socket USB adapter can power the device. The source will turn on when the USB cable is plugged into the USB port on the rear of the device. A SMA905 optical fibre can be connected to the output port of the device. An indicator LED on the top of the unit will turn on while the system is powered.

Do not look into the front of the device or expose any skin to the front of the device while the system is powered.