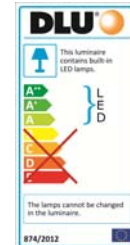
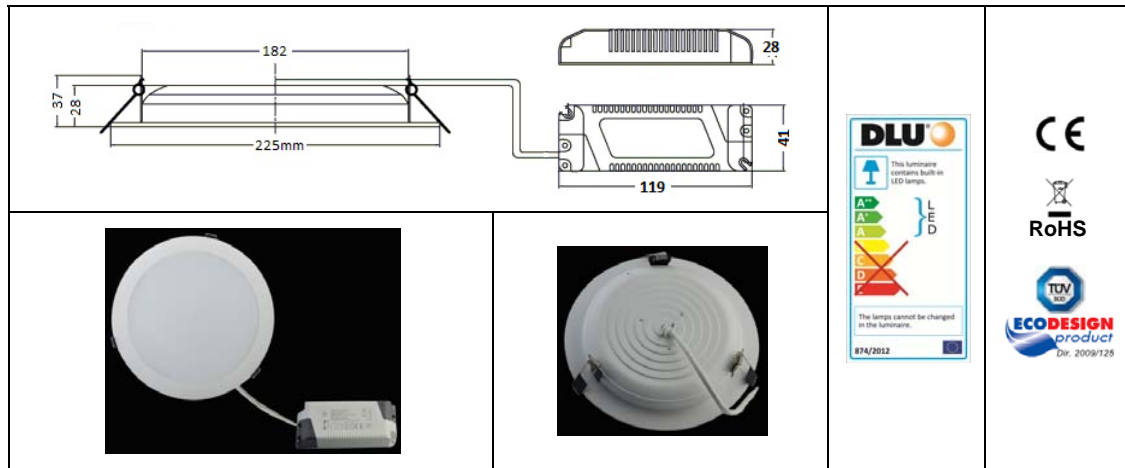


LED FIXTURES

FIXED RECESSED DOWNLIGHTER 18-22W **OEM** **LED**









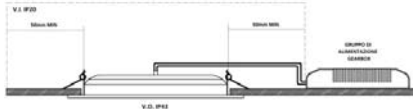

Fixed recessed downlighter for false ceiling application, integrating an array of high power LEDs geared by a constant current LED driver, separately approved by TÜV Süd. Fixture body in diecast Aluminium with opaque white painting; frontal screen in polycarbonate with frosted finish; three sustaining springs in stainless steel.

ITEM CODE	V _{in}	P _{nom} (W)	PF	Lum. Flux (lm)	lm/W	T _c (K)	R _a	Axis cd	Beam Opening
FLLDJ7VAC-M	220-240V 50/60Hz	18	≥ 0.90	1500	83.3	3000	> 80	550	110°
FLLDJ7V2C-M	220-240V 50/60Hz	18	≥ 0.90	1500	83.3	4000	> 80	550	110°
FLLDJ7VEC-M	220-240V 50/60Hz	18	≥ 0.90	1500	83.3	6500	> 80	550	110°
FLLDG7VAC-M	220-240V 50/60Hz	22	≥ 0.90	2000	90.9	3000	> 80	800	110°
FLLDG7V2C-M	220-240V 50/60Hz	22	≥ 0.90	2100	95.4	4000	> 80	850	110°
FLLDG7VEC-M	220-240V 50/60Hz	22	≥ 0.90	2100	95.4	6500	> 80	850	110°

Integrated LED Driver characteristics	c.c. 540mA	Vout 27-42V	tc: 70°C; ta: 40°C	dim: 119 x 41 x h28mm	
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Accessories 22W model (to be separately ordered)	For Dimmability by TRIAC	Substitute the DLU driver with the dimmable driver model "DLC 125/500-A" (code 9918253, ref 9918253) by ELT
	For Permanent emergency autonomy 1h	Add the KIT (Emergency unit + battery) model "emerLED 12-50V 3W 1h" (ref 9953061) by ELT
	For Permanent emergency autonomy 3h	Add the KIT (Emergency unit + battery) model "emerLED 12-50V 3W 3h" (ref 9953062) by ELT

website: <http://www.elt.es/home/i-inicio.html>

Operating electric conditions	Vin = 220-240V 50/60Hz
Insulating class	
Not Adjustable	
False ceiling hole	
Average lifetime L70, F50 (*)	30.000 hours
For indoor use only	
Recommended ambient temperature	
Not suitable for covering with thermally insulated material	
Protection degree: V.I. IP20; V.O. IP43	
Weight (driver included)	
Lamp Survival Factor @6000h	0.90
Lamp Lumen Maintenance Factor @6000h	0.80
Lamp Lumen Maintenance Factor @30.000h	70% (L70)
Starting time	< 0.4s
Number of Switching cycles before failure	> 15.000
Warm-up time (to 95% of the steady-state luminous output)	< 2.0s
Failure rate @1000h	< 5.0%
Colour consistency	MacAdam ellipses step ≤ 6
Mercury and dangerous substances	Absent
UV and IR radiation	Absent

LED lamp classified RISK GROUP 1 in application of the EN 62471: 2008 (CIE S009:2002) standards "Photobiological safety of lamps and lamp systems" and in application of the European Directive 2006/25 on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation).

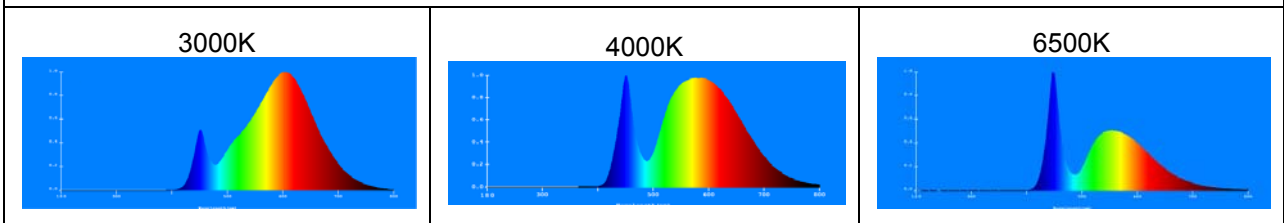
() After 30.000 hours, the luminous flux is at least the 70% of the initial flux and the 50% of the fixtures are still functioning.*



DATA SHEET
LED Fixtures – OEM fixed recessed Downlighter 18-22W
30/06/17 - Ed.7
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	Photometric curve	LUMINANCE IN FRONT OF THE EMITTING SURFACE	UGR Table																																																																																																																																																																																																																																																																																																																																	
18W 3000K 4000K 6500K			<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>ceiling/ceiling</th><th>0.7</th><th>0.7</th><th>0.5</th><th>0.5</th><th>0.3</th><th>0.7</th><th>0.7</th><th>0.5</th><th>0.5</th><th>0.3</th></tr> <tr> <th>wall/w</th><th>0.5</th><th>0.5</th><th>0.5</th><th>0.5</th><th>0.3</th><th>0.5</th><th>0.5</th><th>0.5</th><th>0.5</th><th>0.3</th></tr> <tr> <th>working plane</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th></tr> </thead> <tbody> <tr> <td>Room dimensions</td><td colspan="5">Viewed vertically</td><td colspan="5">Viewed obliquely</td></tr> <tr> <td>$\alpha = 28^\circ \gamma = 28^\circ$</td><td>24.3</td><td>25.8</td><td>24.5</td><td>26.0</td><td>24.2</td><td>24.2</td><td>25.7</td><td>24.4</td><td>25.9</td><td>24.1</td></tr> <tr> <td>36</td><td>24.8</td><td>27.1</td><td>24.1</td><td>27.4</td><td>27.4</td><td>24.4</td><td>27.0</td><td>24.9</td><td>27.2</td><td>27.0</td></tr> <tr> <td>48</td><td>24.4</td><td>27.7</td><td>24.7</td><td>27.9</td><td>28.2</td><td>24.2</td><td>27.5</td><td>24.5</td><td>27.8</td><td>28.0</td></tr> <tr> <td>60</td><td>24.0</td><td>28.1</td><td>27.2</td><td>28.3</td><td>28.6</td><td>24.4</td><td>27.9</td><td>27.0</td><td>28.2</td><td>28.5</td></tr> <tr> <td>80</td><td>27.0</td><td>28.2</td><td>27.3</td><td>28.5</td><td>28.4</td><td>24.8</td><td>28.9</td><td>27.1</td><td>28.3</td><td>28.4</td></tr> <tr> <td>120</td><td>27.1</td><td>28.3</td><td>27.3</td><td>28.6</td><td>28.9</td><td>24.9</td><td>28.9</td><td>27.2</td><td>28.3</td><td>28.7</td></tr> <tr> <td>48</td><td>28</td><td>24.8</td><td>24.2</td><td>24.4</td><td>24.7</td><td>24.9</td><td>24.1</td><td>24.1</td><td>24.3</td><td>24.4</td></tr> <tr> <td>36</td><td>24.8</td><td>27.7</td><td>24.9</td><td>28.0</td><td>28.2</td><td>24.4</td><td>27.6</td><td>24.9</td><td>27.9</td><td>28.2</td></tr> <tr> <td>48</td><td>27.2</td><td>28.3</td><td>27.4</td><td>28.6</td><td>28.0</td><td>27.1</td><td>28.2</td><td>27.5</td><td>28.5</td><td>28.8</td></tr> <tr> <td>60</td><td>27.8</td><td>28.8</td><td>28.3</td><td>29.1</td><td>29.5</td><td>27.7</td><td>28.4</td><td>28.1</td><td>29.0</td><td>29.4</td></tr> <tr> <td>80</td><td>28.1</td><td>28.9</td><td>28.5</td><td>29.3</td><td>29.7</td><td>27.4</td><td>28.4</td><td>28.9</td><td>29.1</td><td>29.5</td></tr> <tr> <td>120</td><td>28.3</td><td>29.1</td><td>28.7</td><td>29.5</td><td>29.9</td><td>28.4</td><td>28.8</td><td>28.5</td><td>29.2</td><td>29.7</td></tr> <tr> <td>80</td><td>46</td><td>27.8</td><td>28.4</td><td>27.9</td><td>28.8</td><td>29.2</td><td>27.4</td><td>28.2</td><td>27.8</td><td>28.4</td><td>29.0</td></tr> <tr> <td>60</td><td>28.8</td><td>29.2</td><td>29.1</td><td>29.7</td><td>30.1</td><td>28.4</td><td>28.8</td><td>28.4</td><td>29.2</td><td>29.7</td></tr> <tr> <td>48</td><td>28.2</td><td>29.4</td><td>29.3</td><td>29.9</td><td>30.4</td><td>28.6</td><td>29.2</td><td>29.9</td><td>30.6</td><td>30.2</td></tr> <tr> <td>120</td><td>46</td><td>27.8</td><td>28.3</td><td>28.0</td><td>28.7</td><td>29.1</td><td>27.4</td><td>28.2</td><td>27.8</td><td>28.4</td><td>29.0</td></tr> <tr> <td>60</td><td>28.3</td><td>29.0</td><td>28.8</td><td>29.4</td><td>29.8</td><td>28.4</td><td>28.8</td><td>28.4</td><td>29.0</td><td>29.7</td></tr> <tr> <td>80</td><td>28.7</td><td>29.2</td><td>29.2</td><td>29.7</td><td>30.2</td><td>28.8</td><td>29.1</td><td>29.0</td><td>29.5</td><td>30.0</td></tr> <tr> <td colspan="11">Variation with the observer position at height:</td></tr> <tr> <td>$\alpha = 1.50$</td><td colspan="5">+ 0.1 / - 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22W 3000K			<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>ceiling/ceiling</th><th>0.7</th><th>0.7</th><th>0.5</th><th>0.5</th><th>0.3</th><th>0.7</th><th>0.7</th><th>0.5</th><th>0.5</th><th>0.3</th></tr> <tr> <th>wall/w</th><th>0.5</th><th>0.5</th><th>0.5</th><th>0.5</th><th>0.3</th><th>0.5</th><th>0.5</th><th>0.5</th><th>0.5</th><th>0.3</th></tr> <tr> <th>working plane</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th><th>0.2</th></tr> </thead> <tbody> <tr> <td>Room dimensions</td><td colspan="5">Viewed vertically</td><td colspan="5">Viewed obliquely</td></tr> <tr> <td>$\alpha = 28^\circ \gamma = 28^\circ$</td><td>28.7</td><td>30.2</td><td>29.0</td><td>30.4</td><td>30.4</td><td>28.7</td><td>30.2</td><td>29.0</td><td>30.4</td><td>30.4</td></tr> <tr> <td>36</td><td>30.2</td><td>31.5</td><td>30.4</td><td>31.7</td><td>32.0</td><td>30.2</td><td>31.5</td><td>30.4</td><td>31.7</td><td>32.0</td></tr> <tr> <td>48</td><td>30.7</td><td>32.0</td><td>31.0</td><td>32.3</td><td>32.5</td><td>30.7</td><td>32.0</td><td>31.0</td><td>32.3</td><td>32.5</td></tr> <tr> <td>60</td><td>31.2</td><td>32.4</td><td>31.5</td><td>32.7</td><td>32.9</td><td>31.2</td><td>32.4</td><td>31.5</td><td>32.7</td><td>32.9</td></tr> <tr> <td>80</td><td>31.9</td><td>32.5</td><td>31.7</td><td>32.8</td><td>33.1</td><td>31.9</td><td>32.5</td><td>31.7</td><td>32.8</td><td>33.1</td></tr> <tr> <td>120</td><td>31.4</td><td>32.4</td><td>31.8</td><td>32.9</td><td>33.2</td><td>31.4</td><td>32.4</td><td>31.8</td><td>32.9</td><td>33.2</td></tr> <tr> <td>48</td><td>28</td><td>29.3</td><td>30.5</td><td>29.4</td><td>30.8</td><td>31.1</td><td>29.3</td><td>30.4</td><td>29.4</td><td>30.8</td><td>31.1</td></tr> <tr> <td>36</td><td>30.9</td><td>32.0</td><td>31.2</td><td>32.3</td><td>32.6</td><td>30.9</td><td>32.0</td><td>31.2</td><td>32.3</td><td>32.6</td></tr> <tr> <td>48</td><td>31.4</td><td>32.4</td><td>32.0</td><td>32.8</td><td>33.0</td><td>31.4</td><td>32.4</td><td>32.0</td><td>32.8</td><td>33.0</td></tr> <tr> <td>60</td><td>32.2</td><td>33.1</td><td>32.4</td><td>33.5</td><td>33.8</td><td>32.2</td><td>33.1</td><td>32.4</td><td>33.5</td><td>33.8</td></tr> <tr> <td>80</td><td>32.4</td><td>33.3</td><td>32.8</td><td>33.8</td><td>34.0</td><td>32.4</td><td>33.3</td><td>32.8</td><td>33.8</td><td>34.0</td></tr> <tr> <td>120</td><td>32.4</td><td>33.4</td><td>33.0</td><td>33.9</td><td>34.2</td><td>32.4</td><td>33.4</td><td>33.0</td><td>33.9</td><td>34.2</td></tr> <tr> <td>48</td><td>31.8</td><td>32.7</td><td>32.3</td><td>33.3</td><td>33.5</td><td>31.8</td><td>32.7</td><td>32.3</td><td>33.3</td><td>33.5</td></tr> <tr> <td>36</td><td>32.7</td><td>33.3</td><td>33.1</td><td>33.7</td><td>34.0</td><td>32.7</td><td>33.3</td><td>33.1</td><td>33.7</td><td>34.0</td></tr> <tr> <td>80</td><td>33.0</td><td>33.4</td><td>33.4</td><td>34.0</td><td>34.3</td><td>33.0</td><td>33.4</td><td>33.4</td><td>34.0</td><td>34.3</td></tr> <tr> <td>120</td><td>33.2</td><td>33.7</td><td>33.7</td><td>34.2</td><td>34.7</td><td>33.2</td><td>33.7</td><td>33.7</td><td>34.2</td><td>34.7</td></tr> <tr> <td>120</td><td>46</td><td>31.8</td><td>32.7</td><td>32.3</td><td>33.1</td><td>33.5</td><td>31.8</td><td>32.7</td><td>32.3</td><td>33.1</td><td>33.5</td></tr> <tr> <td>60</td><td>32.3</td><td>33.3</td><td>33.1</td><td>33.7</td><td>34.0</td><td>32.3</td><td>33.3</td><td>33.1</td><td>33.7</td><td>34.0</td></tr> <tr> <td>80</td><td>33.0</td><td>33.4</td><td>33.4</td><td>34.0</td><td>34.3</td><td>33.0</td><td>33.4</td><td>33.4</td><td>34.0</td><td>34.3</td></tr> <tr> <td>120</td><td>33.2</td><td>33.7</td><td>33.7</td><td>34.2</td><td>34.7</td><td>33.2</td><td>33.7</td><td>33.7</td><td>34.2</td><td>34.7</td></tr> <tr> <td colspan="11">Variation with the observer position at height:</td></tr> <tr> <td>$\alpha = 1.50$</td><td colspan="5">+ 0.2 / - 0.2</td><td colspan="5">+ 0.2 / - 0.2</td></tr> <tr> <td>1.50</td><td colspan="5">+ 0.1 / - 0.3</td><td colspan="5">+ 0.1 / - 0.3</td></tr> <tr> <td>2.00</td><td colspan="5">+ 0.2 / - 0.2</td><td colspan="5">+ 0.2 / - 0.2</td></tr> <tr> <td colspan="11">CIE Pub.117 Corrected 1476 In Total Lamp Luminance Flux (E₀(H₀)/E₀) = 2.31</td></tr> </tbody> </table>	ceiling/ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	wall/w	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.3	working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Room dimensions	Viewed vertically					Viewed obliquely					$\alpha = 28^\circ \gamma = 28^\circ$	28.7	30.2	29.0	30.4	30.4	28.7	30.2	29.0	30.4	30.4	36	30.2	31.5	30.4	31.7	32.0	30.2	31.5	30.4	31.7	32.0	48	30.7	32.0	31.0	32.3	32.5	30.7	32.0	31.0	32.3	32.5	60	31.2	32.4	31.5	32.7	32.9	31.2	32.4	31.5	32.7	32.9	80	31.9	32.5	31.7	32.8	33.1	31.9	32.5	31.7	32.8	33.1	120	31.4	32.4	31.8	32.9	33.2	31.4	32.4	31.8	32.9	33.2	48	28	29.3	30.5	29.4	30.8	31.1	29.3	30.4	29.4	30.8	31.1	36	30.9	32.0	31.2	32.3	32.6	30.9	32.0	31.2	32.3	32.6	48	31.4	32.4	32.0	32.8	33.0	31.4	32.4	32.0	32.8	33.0	60	32.2	33.1	32.4	33.5	33.8	32.2	33.1	32.4	33.5	33.8	80	32.4	33.3	32.8	33.8	34.0	32.4	33.3	32.8	33.8	34.0	120	32.4	33.4	33.0	33.9	34.2	32.4	33.4	33.0	33.9	34.2	48	31.8	32.7	32.3	33.3	33.5	31.8	32.7	32.3	33.3	33.5	36	32.7	33.3	33.1	33.7	34.0	32.7	33.3	33.1	33.7	34.0	80	33.0	33.4	33.4	34.0	34.3	33.0	33.4	33.4	34.0	34.3	120	33.2	33.7	33.7	34.2	34.7	33.2	33.7	33.7	34.2	34.7	120	46	31.8	32.7	32.3	33.1	33.5	31.8	32.7	32.3	33.1	33.5	60	32.3	33.3	33.1	33.7	34.0	32.3	33.3	33.1	33.7	34.0	80	33.0	33.4	33.4	34.0	34.3	33.0	33.4	33.4	34.0	34.3	120	33.2	33.7	33.7	34.2	34.7	33.2	33.7	33.7	34.2	34.7	Variation with the observer position at height:											$\alpha = 1.50$	+ 0.2 / - 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0.2</td><td colspan="5">+ 0.2 / - 0.2</td></tr> <tr> <td>1.50</td><td colspan="5">+ 0.1 / - 0.3</td><td colspan="5">+ 0.1 / - 0.3</td></tr> <tr> <td>2.00</td><td colspan="5">+ 0.2 / - 0.2</td><td colspan="5">+ 0.2 / - 0.2</td></tr> <tr> <td colspan="11">CIE Pub.117 Corrected 1476 In Total Lamp Luminance Flux (E₀(H₀)/E₀) = 2.41</td></tr> </tbody> </table>	ceiling/ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	wall/w	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.3	working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	Room dimensions	Viewed vertically					Viewed obliquely					$\alpha = 28^\circ \gamma = 28^\circ$	29.1	30.3	29.3	30.4	31.4	29.1	30.4	29.4	30.4	31.4	36	30.5	31.9	30.8	32.1	32.9	30.5	31.9	30.9	32.1	32.9	48	31.1	32.4	31.4	32.7	33.5	31.1	32.4	31.4	32.7	33.5	60	31.5	32.7	31.9	33.0	33.8	31.5	32.8	31.9	33.1	33.4	80	31.7	32.8	32.0	33.1	33.9	31.7	32.8	32.0	33.2	33.5	120	31.7	32.9	32.1	33.2	34.0	31.8	32.9	32.1	33.2	33.6	48	28	29.4	30.9	30.0	31.1	31.3	29.7	30.9	31.2	32.3	36	31.3	32.4	31.4	32.7	33.5	31.3	32.5	31.7	32.8	33.1	48	32.0	33.0	32.4	33.4	33.7	32.0	33.1	32.4	33.4	33.7	60	32.5	33.5	33.0	33.9	34.2	32.5	33.6	33.0	34.0	34.2	80	32.7	33.6	33.2	34.0	34.4	32.8	33.8	33.2	34.0	34.4	120	32.9	33.7	33.3	34.1	34.5	32.9	33.9	33.3	34.1	34.5	48	32.2	33.1	32.7	33.9	33.9	32.3	33.1	32.7	33.9	33.9	36	33.0	33.7	33.4	34.1	34.3	33.0	33.7	33.4	34.1	34.3	48	33.2	33.9	33.7	34.3	34.8	33.2	33.9	33.7	34.3	34.8	120	33.5	34.0	34.0	34.5	35.0	33.5	34.0	34.0	34.5	35.0	120	46	32.3	33.1	32.7	33.4	33.9	32.3	33.1	32.7	33.4	33.9	60	33.0	33.7	33.3	34.1	34.4	33.1	33.7	33.3	34.1	34.4	80	33.4	33.9	33.8	34.4	34.8	33.4	33.9	33.8	34.4	34.8	Variation with the observer position at height:											$\alpha = 1.50$	+ 0.2 / - 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Spectral Power Distribution 180-800nm



Reference Standards: EN60598-1; EN62031; EN50102; CEI EN 61347-1; CEI EN 61347-2-13; IEC draft 34A/1444/PAS (IEC/PAS 62717 Ed.1); IEC62471; IEC/TR 62471-2; EN55015; EN61000-3-2; EN61000-3-3; EN61547; EN62493

European Directives and Regulations: 2014/35; 2014/30; 92/31; 93/68; 2009/125 (Reg.no.1194/2012; no.1428/2015); 2010/30 (Reg.no.874/2012); 2012/27; 2011/65; 2012/19

	<p>Correct disposal of this product (Waste Electrical & Electronic Equipment) Applicable in countries with separate collection systems</p> <p>This graphic symbol placed on the product and on the package indicates that the product should not be disposed with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and responsibly recycle them to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased the product, or their local government office, for details on where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract; this product should not be mixed with other commercial wastes for disposal.</p>
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