

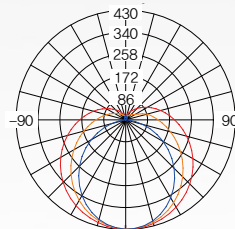
STLE series

LED TUBE LAMP

13W.18W.22W.36W

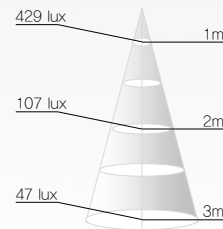
- 인간공학 디자인
- 친환경 조명제품
- 장수명
- 저소비전력
- 경량화 설계
- 넓은 배광각 구현

▶ 배광분포도(18W) STLE1200



배광각도 = 164°

▶ 직하조도표(18W) STLE1200



배광각도 = 164°



▶ 제품규격



▶ FUNDAMENTAL

비교 품목 Compared item (比較項目)	일반 18W 형광등 Original 18W fluorescent light (従来製品)	LED 형광등 LED Fluorescent Light (弊社製品)	Energy (節減効果)
소비 전력 (消費電力) Power Consumption	18W	13W	30%
Co2 발생량 (일 10시간) Co2/year(1day=10h)	26.28kg	18.98kg	-7.3kg

▶ FUNDAMENTAL

비교 품목 Compared item (比較項目)	일반 38W 형광등 Original 38W fluorescent light (従来製品)	LED 형광등 LED Fluorescent Light (弊社製品)	Energy (節減効果)
소비 전력 (消費電力) Power Consumption	38W	18W	50%
Co2 발생량 (일 10시간) Co2/year(1day=10h)	55.48kg	33.58kg	-21.9kg

▶ FUNDAMENTAL

비교 품목 Compared item (比較項目)	일반 100W 형광등 Original 100W fluorescent light (従来製品)	LED 형광등 LED Fluorescent Light (弊社製品)	Energy (節減効果)
소비 전력 (消費電力) Power Consumption	100W	45W	30%
Co2 발생량 (일 10시간) Co2/year(1day=10h)	146kg	70.08kg	-75.92kg

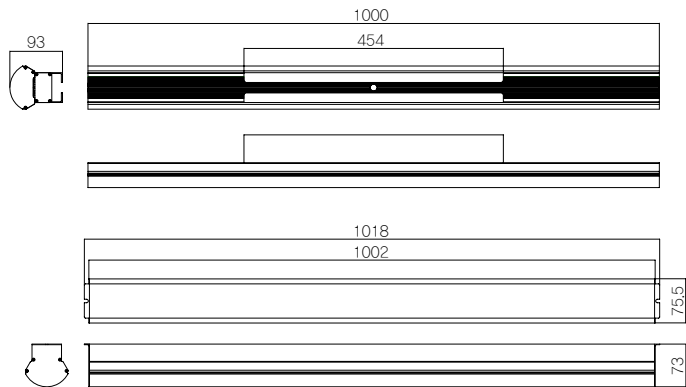
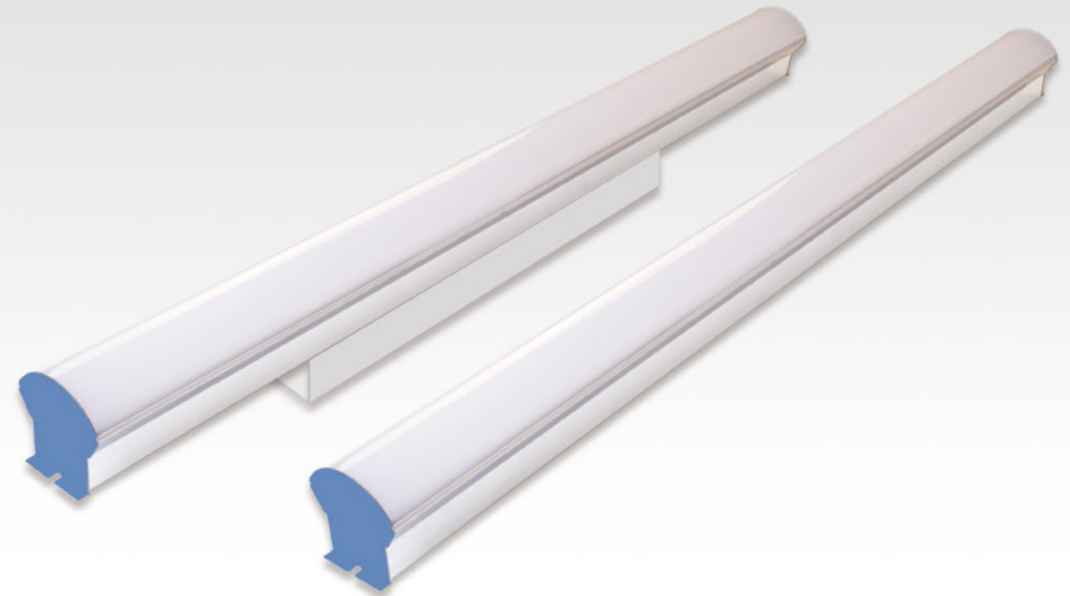
■ 제품사양

모델 Model	크기 (mm) Size (サイズ)	무게 (g) Weight (重量)	광속 (lm) Luminous Flux (全光束)	빛효율 (lm/W) Efficiency (発光効率)	조도 (1M) Intensity of illumination (照度)	색온도 (K) Color Temperature (色温度)	빔각도 Radiatio Angle (ビームアングル)	연색성 CRI (演色性)	전력소비량 LED Power Consumption (消費電力)	역률 Power Factor (力率)	입력 전압 Rated Input Voltage (入力電圧)	수명 (hr) Lifetime (寿命)	작동 온도 Operating Temperature (動作温度範囲)	인증 Certification (認証)
STLE600	ø 30X580	190	1020	102	245 lux	3000K 3500K 4000K 5500K 6000K	140°	min 80~ / 85~ / 90~	10W	No less > 0.9	AC100~240V, 50/60Hz	50,000 (Ta=25° c,Open fixture)	-20~50°	RoHS/green certification CE / PSE
STLE1200	ø 30X1198	320	1836	102	429 lux				18W					
STLE1500	ø 30X1498	380	3060	102	520 lux				30W					
STLE2400	ø 30X2367	580	3672	102	624 lux				36W					

LED PARKING LIGHT

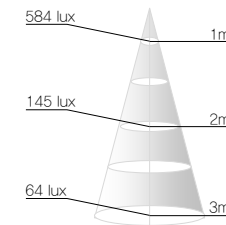
18W.36W

- 인간공학 디자인
- 친환경 조명제품
- 장수명
- 저소비전력
- 경량화 설계
- 넓은 배광각 구현

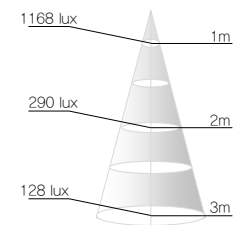


HS-PK18

▶ 직하조도표(18W) HS-PK18



▶ 직하조도표(36W) HS-PK36



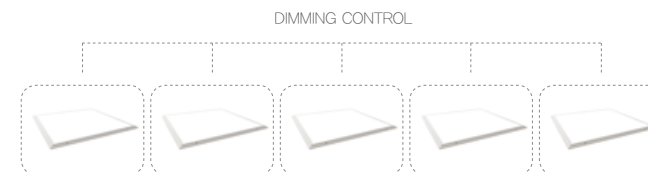
■ 제품사양

모델 Model	무게 Weight (重量)	광속 (lm) Luminous Flux (全光束)	빛효율 (lm/W) Efficiency (発光効率)	색온도 (K) Color Temperature (色温度)	빔각도 Radiatio Angle (ビームアングル)	연색성 CRI (演色性)	전력소비량 LED Power Consumption (消費電力)	입력 전압 Rated Input Voltage (入力電圧)
HS-PK18	4.5kg	1620	90	3500K / 5700K	120 °	>85	18W	AC100-240V, 50/60Hz
HS-PK36	4.5kg	3240	90				36W	

LED FLAT PANEL LIGHT (SIDE EDGE TYPE : 에지모델)

HE-330S • 450S • 630S • 660S • 1230S • 1260S

- 고휘도 LED를 사용한 매입형 LED 등기구 형광램프를 대체 가능합니다.
- 40,000시간 이상의 수명으로 반영구적이며 신뢰성이 높습니다.
- 낮은 소비전력 대비하여 광량이 높습니다.
- DIMMING 기능
- IR Remote control 기능



■ 제품사양

[SS,LG Chip]

모델 Model	무게 Weight (重量)	광속 (lm) Luminous Flux (全光束)	빛효율 (lm/W) Efficiency (発光効率)	색온도 (K) Color Temperature (色温度)	빔각도 Radiatio Angle (ビーム アングル)	연색성 CRI (演色性)	전력소비량 LED Power Consumption (消費電力)	입력 전압 Rated Input Voltage (入力電圧)
HE-330S	<2kg	1044	87	3,500K / 5,700K	120 °	>85	12W	AC100-240V, 50/60Hz
HE-450S	<2kg	2175	87		120 °	>85	25W	
HE-630S	<2kg	2175	87		120 °	>85	25W	
HE-660S	<4kg	4350	87		120 °	>85	50W	
HE-1230S	<4kg	4350	87		120 °	>85	50W	
HE-1260S	<8kg	5568	87		120 °	>85	64W	

LED FLAT PANEL LIGHT (SIDE EDGE TYPE : 에지모델)



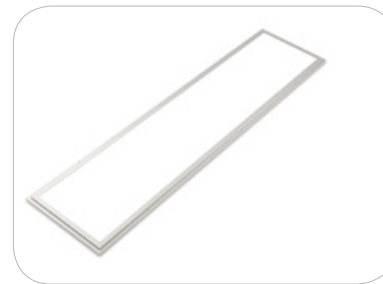
HE-330S



HE-660S



HE-630S

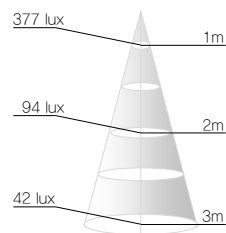


HE-1230S

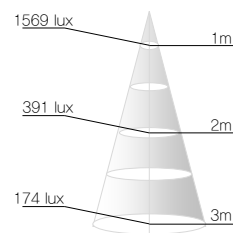


HE-1260S

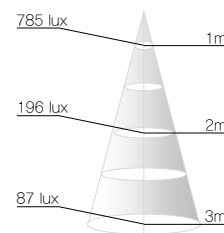
▶ 직하조도표(12W) HE-330S



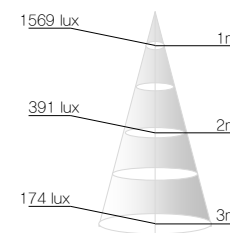
▶ 직하조도표(50W) HE-660S



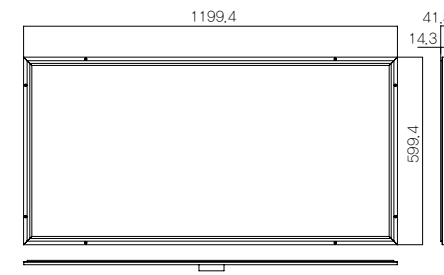
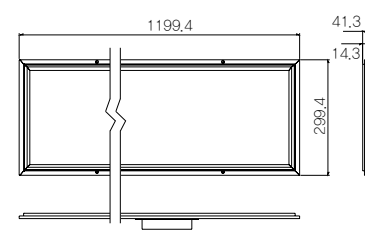
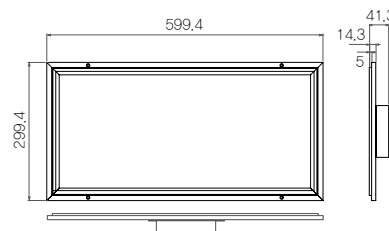
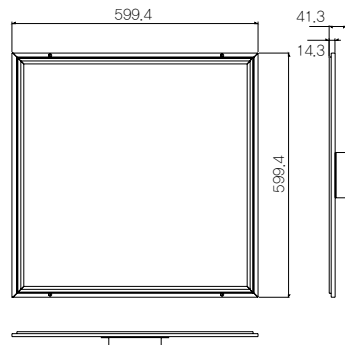
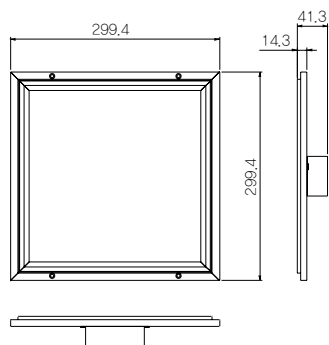
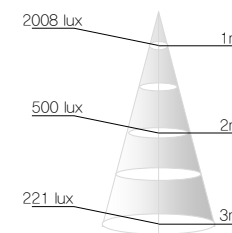
▶ 직하조도표(25W) HE-630S



▶ 직하조도표(50W) HE-1230S



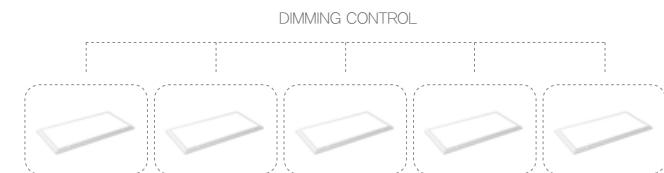
▶ 직하조도표(50W) HE-1260S



LED FLAT PANEL LIGHT (VERTICAL TYPE : 직하모델)

HV-330S • 450S • 630S • 660S • 1230S • 1260S

- 고휘도 LED를 사용한 매입형 LED 등기구 형광램프를 대체 가능합니다.
- 40,000시간 이상의 수명으로 반영구적이며 신뢰성이 높습니다.
- 낮은 소비전력 대비하여 광량이 높습니다.
- 사용자에게 최고의 실내분위기를 연출합니다.
- DIMMING 기능
- IR Remote control 기능



■ 제품사양

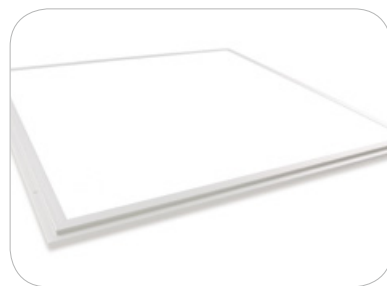
[SS,LG Chip]

모델 Model	무게 Weight (重量)	광속 (lm) Luminous Flux (全光束)	빛효율 (lm/W) Efficiency (発光効率)	색온도 (K) Color Temperature (色温度)	빔각도 Radiatio Angle (ビーム アングル)	연색성 CRI (演色性)	전력소비량 LED Power Consumption (消費電力)	입력 전압 Rated Input Voltage (入力電圧)
HV-330S	2kg	1080	90	3,500K / 5,700K	120 °	>85	12W	AC100-240V, 50/60Hz
HV-450S	3kg	2250	90		120 °	>85	25W	
HV-630S	3kg	2250	90		120 °	>85	25W	
HV-660S	4kg	4500	90		120 °	>85	50W	
HV-1230S	5kg	4500	90		120 °	>85	50W	
HV-1260S	<8kg	6300	90		120 °	>85	70W	

LED FLAT PANEL LIGHT (VERTICAL TYPE : 직하모델)



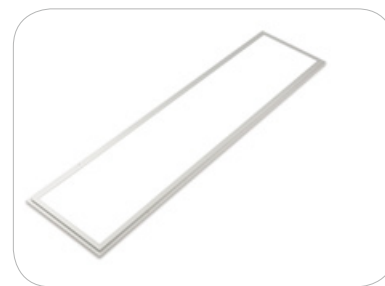
HV-330S



HV-660S



HV-630S

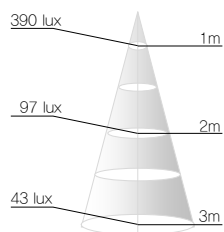


HV-1230S

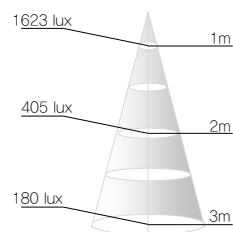


HV-1260S

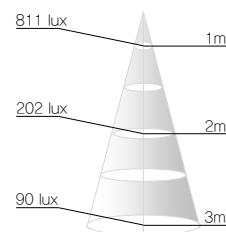
▶ 직하조도표(12W) HV-330S



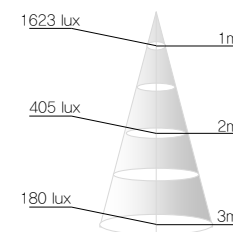
▶ 직하조도표(50W) HV-660S



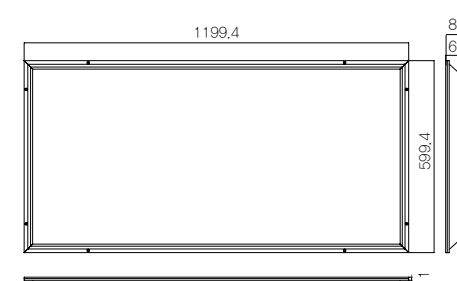
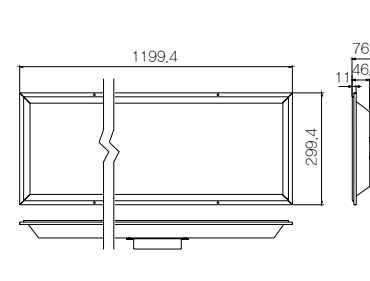
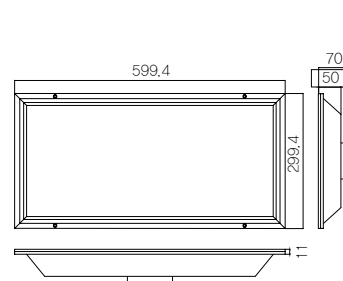
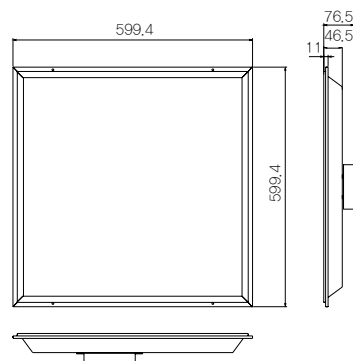
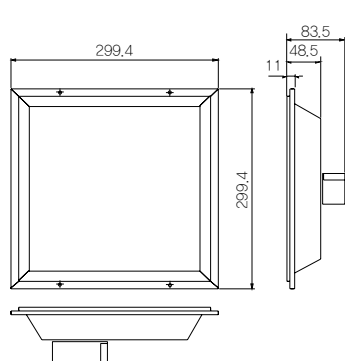
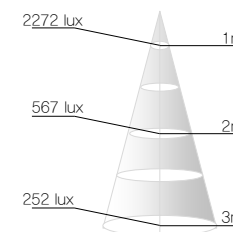
▶ 직하조도표(25W) HV-630S



▶ 직하조도표(50W) HV-1230S



▶ 직하조도표(70W) HV-1260S



HDR series

LED DOWN LIGHT

HER • HDR • HSENS • HSEN

- 주변 인테리어와 조화를 이루는 동시에 자연스러운 분위기를 연출해주는 미려한 디자인의 매입형 등기구입니다. 기존의 할로겐 램프를 사용한 등기구에 비해 전력 소비량이 적으면서 CO2 배출도 적고 친환경적이며 고휘도를 구현해내는 제품입니다.

■ 제품사양 (센서등 : HSENS-200, HSEN-D18)

모델 Model	무게 Weight (重量)	광속 (lm) Luminous Flux (全光束)	크기 Size (サイズ)	색온도 (K) Color Temperature (色温度)	빔각도 Radiatio Angle (ビーム アングル)	연색성 CRI (演色性)	전력소비량 LED Power Consumption (消費電力)	입력 전압 Rated Input Voltage (入力電圧)
HER-200	1kg	1015	Ø244 X 42 [mm]	3,000K ~ 6,000K	120 °	>80	18W	AC100~240V, 50/60Hz
HSENS-200	1kg	1015	Ø244 X 39 [mm]	3,000K ~ 6,000K	120 °	>80	18W	AC100~240V, 50/60Hz
HSEN-D18	1kg	1015	Ø220 X 89 [mm]		120 °	>80	18W	

■ 제품사양

모델 Model	무게 Weight (重量)	광속 (lm) Luminous Flux (全光束)	광효율 Luminance Efficiency (発光効率)	색온도 (K) Color Temperature (色温度)	빔각도 Radiatio Angle (ビーム アングル)	연색성 CRI (演色性)	전력소비량 LED Power Consumption (消費電力)	입력 전압 Rated Input Voltage (入力電圧)
HDR6-D12	1kg	7500			120 °	>80	10W	
HDR6-D15	1kg	1115			120 °	>80	15W	
HDR8-D20	1kg	1500	75 lm/W	3,000K ~ 5,700K	120 °	>80	20W	AC100~240V, 50/60Hz
HDR8-D38	1kg	2850			120 °	>80	38W	

LED DOWN LIGHT

HER • HDR • HSENS • HSEN



HER-200



HDR8-D20



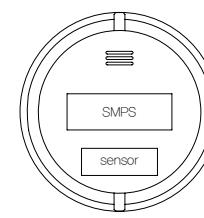
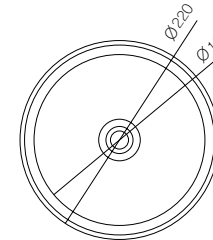
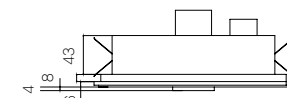
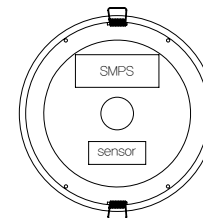
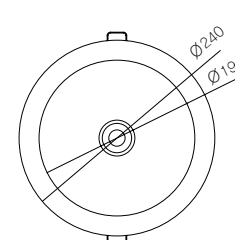
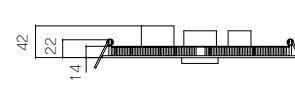
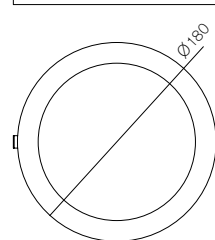
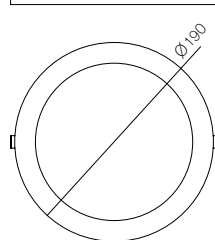
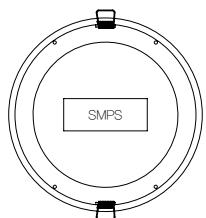
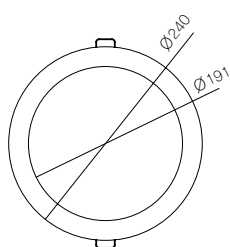
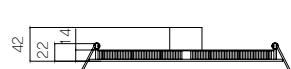
HDR6-12



HSENS-200 (센서등)



HSEN-D18 (센서등)

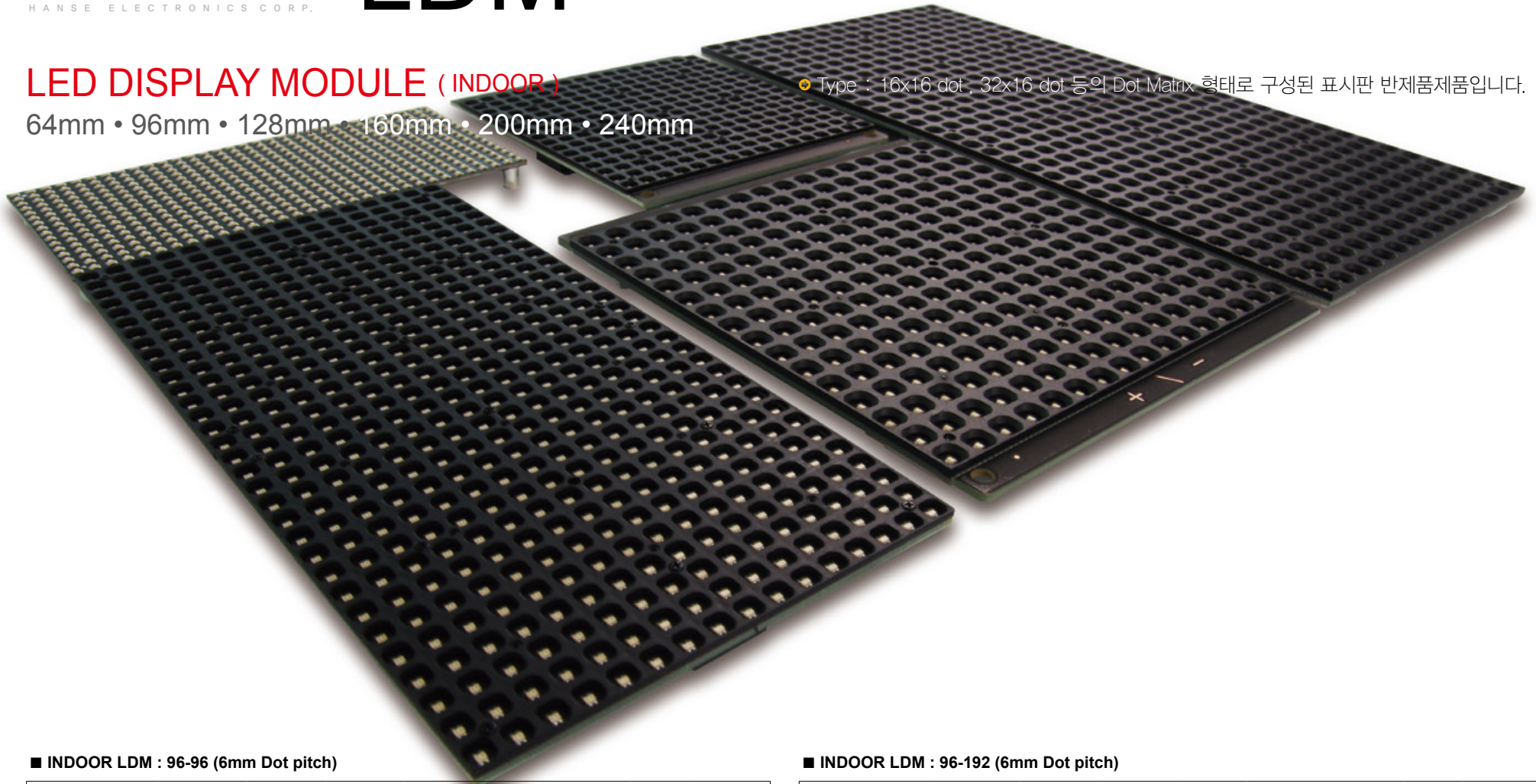


LDM series

LED DISPLAY MODULE (INDOOR)

64mm • 96mm • 128mm • 160mm • 200mm • 240mm

☛ Type : 16x16 dot , 32x16 dot 등의 Dot Matrix 형태로 구성된 표시판 반제품제품입니다.



■ INDOOR LDM : 96-96 (6mm Dot pitch)

Model	Size(mm)	Dot q 'ty	Drive(duty)	Pith(mm)	LED Array/COLOR	θ 1/2	[V] / [A]
HS-96-CFN-0801	96X96X10	16X16	1/8	6	3528 RGB	±60	5V, 7.5A
HS-96-CRGAN	96X96X10	16X16	1/16	6	1615 R+G	±60	5V, 4.5A
HS-96-CPGN	96X96X10	16X16	1/16	6	1608 PURE GREEN	±60	5V, 2.3A
HS-96-CRN	96X96X10	16X16	1/16	6	1608 RED	±60	5V, 2.3A
HS-96-CWN	96X96X10	16X16	1/16	6	1608 WHITE	±60	5V, 2.3A

■ INDOOR LDM : 96-192 (6mm Dot pitch)

Model	Size(mm)	Dot q 'ty	Drive(duty)	Pith(mm)	LED Array/COLOR	θ 1/2	[V] / [A]
HS-96D-CFN-1601	96X192X10	16X32	1/16	6	3528 RGB	±60	5V, 7.5A
HS-96D-CRGAN	96X192X10	16X32	1/16	6	1615 R+G	±60	5V, 4.5A
HS-96D-CPGN	96X192X10	16X32	1/16	6	1608 PURE GREEN	±60	5V, 2.3A
HS-96D-CRN	96X192X10	16X32	1/16	6	1608 RED	±60	5V, 2.3A
HS-96D-CWN	96X192X10	16X32	1/16	6	1608 WHITE	±60	5V, 2.3A

LED DISPLAY MODULE (INDOOR)

64mm • 96mm • 128mm • 160mm • 200mm • 240mm

■ INDOOR LDM : 64-128 (4mm Dot pitch)

Model	Size(mm)	Dot q 'ty	Drive(duty)	Pith(mm)	ED Array/COLOR	θ 1/2	[V] / [A]
HS-64D-CFN-0801	64X128X10	16X32	1/8	4	1615 RGB	±60	5V. 7.5A
HS-64D-CRGAN	64X128X10	16X32	1/16	4	1615 R+G	±60	5V. 4.5A
HS-64D-CPGN	64X128X10	16X32	1/16	4	1608 PURE GREEN	±60	5V. 2.3A
HS-64D-CRN	64X128X10	16X32	1/16	4	1608 RED	±60	5V. 2.3A
HS-64D-CWN	64X128X10	16X32	1/16	4	1608 WHITE	±60	5V. 2.3A
HS-64D-CYN	64X128X10	16X32	1/16	4	1608 YELLOW	±60	5V. 2.3A

■ INDOOR LDM : 160-160 (10mm Dot pitch)

Model	Size(mm)	Dot q 'ty	Drive(duty)	Pith(mm)	ED Array/COLOR	θ 1/2	[V] / [A]
HS-160-CFN-0801	160X160X10	16X16	1/8	10	RGB FULL COLOR 5450 RGB LED	±60	5V. 7.5A

■ INDOOR LDM : 200-200 (12.5mm Dot pitch)

Model	Size(mm)	Dot q 'ty	Drive(duty)	Pith(mm)	ED Array/COLOR	θ 1/2	[V] / [A]
HS-200-CFN-0801	200X200X10	16X16	1/8	12.5	RGB FULL COLOR 5450 RGB LED	±60	5V. 7.5A

■ INDOOR LDM : 240-240 (15mm Dot pitch)

Model	Size(mm)	Dot q 'ty	Drive(duty)	Pith(mm)	ED Array/COLOR	θ 1/2	[V] / [A]
HS-240-CFN-0801	240X240X10	16X16	1/8	15	RGB FULL COLOR 5450 RGB LED	±60	5V. 7.5A

■ INDOOR LDM : 128-128 (8mm Dot pitch)

Model	Size(mm)	Dot q 'ty	Drive(duty)	Pith(mm)	ED Array/COLOR	θ 1/2	[V] / [A]
HS-128-CFN-0801	128X128X10	16X16	1/8	8	3528 RGB	±60	5V. 7.5A
HS-128-CRGAN	128X128X10	16X16	1/16	8	1615 R+G	±60	5V. 4.5A
HS-128-CPGN	128X128X10	16X16	1/16	8	1608 PURE GREEN	±60	5V. 2.3A
HS-128-CRN	128X128X10	16X16	1/16	8	1608 RED	±60	5V. 2.3A
HS-128-CWN	128X128X10	16X16	1/16	8	1608 WHITE	±60	5V. 2.3A
HS-128-CYN	128X128X10	16X16	1/16	8	1608 YELLOW	±60	5V. 2.3A

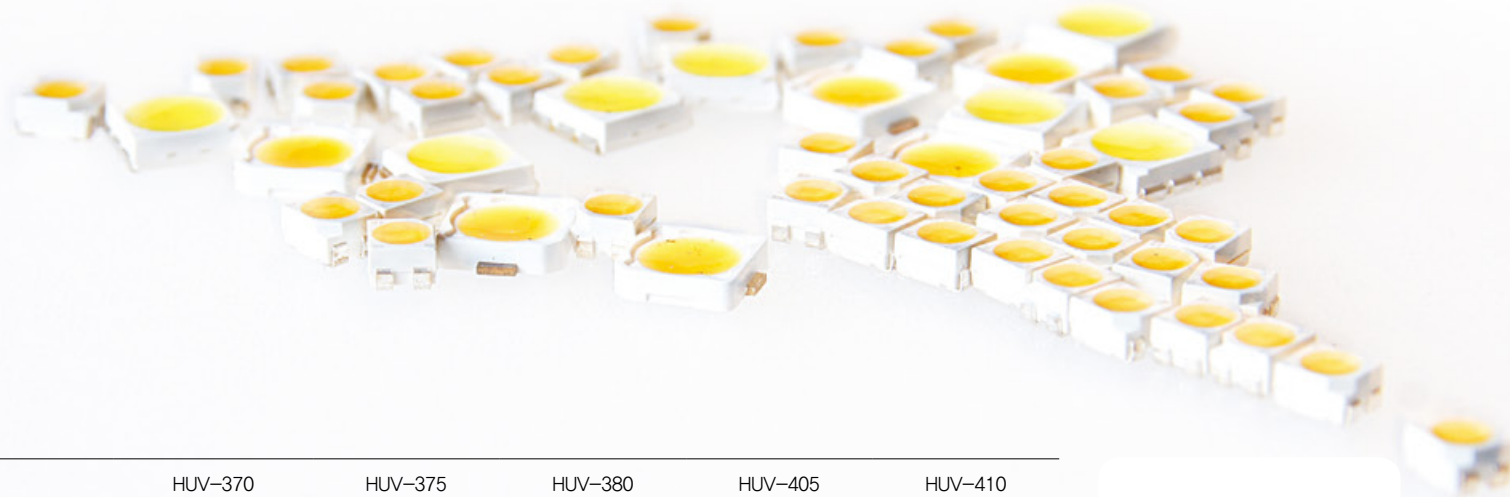
■ INDOOR LDM : 128-256 (8mm Dot pitch)

Model	Size(mm)	Dot q 'ty	Drive(duty)	Pith(mm)	ED Array/COLOR	θ 1/2	[V] / [A]
HS-128D-CFN-0801	128X256X10	16X32	1/8	8	3528 RGB	±60	5V. 7.5A
HS-128D-CRGAN	128X256X10	16X32	1/16	8	1615 R+G	±60	5V. 4.5A
HS-128D-CPGN	128X256X10	16X32	1/16	8	1608 PURE GREEN	±60	5V. 2.3A
HS-128D-CRN	128X256X10	16X32	1/16	8	1608 RED	±60	5V. 2.3A
HS-128D-CWN	128X256X10	16X32	1/16	8	1608 WHITE	±60	5V. 2.3A
HS-128D-CYN	128X256X10	16X32	1/16	8	1608 YELLOW	±60	5V. 2.3A

LED PACKAGE

1608 • 1612 • 1615 • 2012 • 3216 • 3227 • S2110 • S3215

- Visible LED, IrED, UV LED 등의 소자 제품들을 구비하고 맞춤형 고객 지원 시스템으로 최고의 서비스와 안정된 품질로 공급해 드리고 있습니다.



■ UV LED

Model		HUV-370	HUV-375	HUV-380	HUV-405	HUV-410
Peak Wavelength Wp (nm)		365 ~ 370	370 ~ 375	375 ~ 380	400 ~ 405	405 ~ 410
Optical Power Output Po (mW)	A	230 ~ 260	230 ~ 260	230 ~ 260	450 ~ 525	450 ~ 525
	B	260 ~ 290	260 ~ 290	260 ~ 290	525 ~ 600	525 ~ 600
	C	90 ~ 320	290 ~ 320	290 ~ 320	600 ~	600 ~
Forward Voltage WF (V)	Typ	3.9	3.9	3.9	3.9	3.9
	Max	4.5	4.5	4.5	5.0	5.0
View Angle (Deg.)		130	130	130	150	150
Thermal resistance (°C/W)		10	10	10	15	15



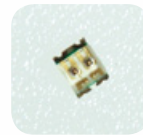
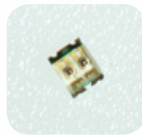
LED PACKAGE

1608 • 1612 • 1615 • 2012 • 3216 • 3227 • S2110 • S3215



■ LED PACKAGE

Top view	1608	1612	1615	2012	3216	3227
BLUE	HC-470T1608B			HC-470T2012	HC-470T3216	
WHITE	HC-WT1608B			HC-WT2012	HC-WT3216	
PURE-GREEN	HC-520T1608B			HC-520T2012	HC-520T3216	
YELLOW-GREEN	HC-570T1608			HC-570T2012	HC-570T3216	
YELLOW	HC-590T1608			HC-59T2012	HC-590T3216	
AMBER (ORANGE)	HC-600T1608			HC-600T2012	HC-600T3216	
RED	HC-620T1608			HC-620T1608	HC-620T3216	
RED + BLUE		HC-RB1-T1612	HC-RB1-T1615			HC-RB1-T3227
RED + GREEN		HC-RM3-T1612	HC-RM3-T1615			HC-RM1-T3227
RED + PG		HC-RG1-T1612	HC-RG1-T1615			HC-RG1-T3227
RED + PG + BLUE			HC-RGB3-T1615			HC-RGB1-T3227



■ LED PACKAGE

Side view	S2110	S3215
BLUE	HC-470S2110	
WHITE	HC-WS2110	
PURE-GREEN	HC-520S2110	
YELLOW-GREEN	HC-570S2110	
YELLOW	HC-590S2110	
AMBER (ORANGE)	HC-600S2110	
RED	HC-620S2110	
RED + PG + BLUE		HC-RGB1-S3215

