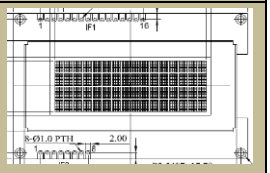
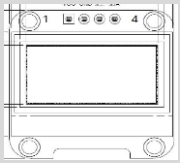
PiTek

PI-TEK DISPLAY OLED MODULES

2018. v2.0

PMOLED Module

		NEW! Mass Production			
		PHC0802A	PHC1601A	PHC1602A	PHC1602B
Number of Dots(W x H)	-	08 x 02	16 x 01	16 x 02	16 x 02
Diagonal Active Area Size	inch	--	--	--	--
Outline	mm	58.00 x 32.00	80.00 x 36.00	84.00 x 44.00	80.00 x 36.00
Active Area Size	mm	27.81 x 11.5	59.62 x 6.56	56.22 x 11.52	56.22 x 11.52
Dot Pitch	mm	0.60 x 0.70	0.63 x 0.83	0.60 x 0.70	0.60 x 0.70
Total Thickness	mm	12.9	9.2	9.1(L-BEZEL)/13.2(H-BEZEL)	9.1(L-BEZEL)/13.2(H-BEZEL)
Interface	-	4 or 8-bit 68/80,I2C, SPI	4 or 8-bit 68/80,I2C, SPI	4 or 8-bit 68/80,I2C, SPI	4 or 8-bit 68/80,I2C, SPI
Logic System Power Voltage(LSPV)	V	2.8 ~ 5.3	2.8 ~ 5.3	2.8 ~ 5.3	2.8 ~ 5.3
Color	-	White/Yellow	White/Yellow	White/Yellow	White/Yellow
Lunimance(with Polarizer)	cd/m²	100/100	100/100	100/100	100/100
Suggested Connector Type	-	--	--	--	--
Operating Temperatur	℃	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Assembly	-	Pin	Pin	Pin	Pin
Development Phase		NEW! Mass Production			
Model Name		PHC1602C	PHC1602D	PHC2002A	PHC1604A
External View					
Number of Dots(W x H)	-	16 x 02	16 x 02	20 x 02	16 x 04
Diagonal Active Area Size	inch	--	--	--	--
Glass Size/Outline	mm	85.00 x 36.00	85.00 x 30.00	116.00 x 37.00	87.00 x 60.00
Active Area Size	mm	56.22 x 11.52	56.22 x 11.52	73.52 x 11.52	56.20 x 20.80
Dot Pitch	mm	0.60 x 0.70	0.60 x 0.70	0.60 x 0.70	0.60 x 0.60
Total Thickness(with Polarizer)	mm	9.1(L-BEZEL)/13.2(H-BEZEL)	9.1(L-BEZEL)/13.2(H-BEZEL)	9.0	13.1
Interface	-	4 or 8-bit 68/80,I2C, SPI	4 or 8-bit 68/80,I2C, SPI	4 or 8-bit 68/80,I2C, SPI	4 or 8-bit 68/80,I2C, SPI
Logic System Power Voltage(LSPV)	V	2.8 ~ 5.3	2.8 ~ 5.3	2.8 ~ 5.3	2.8 ~ 5.3
Color	-	White/Yellow	White/Yellow	White/Yellow	White/Yellow
Lunimance(with Polarizer)	cd/m²	100/100	100/100	100/100	100/100
Suggested Connector Type	-	--	--	--	--
Operating Temperatur	℃	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Assembly	-	Pin	Pin	Pin	Pin
Development Phase		Mass Production	Mass Production	Mass Production	Mass Production
Model Name		PHC2004A	PHC4002A	PG12864O010(0.96)(I2C)	PG12864G
External View					
Number of Dots(W x H)/Display Format	-	20 x 04	40 x 02	128 x 64	128 x 64
Diagonal Active Area Size	inch	--	--	0.96	2.42
Glass Size or Module /Outline	mm	98.00 x 60.00	182.00 x 33.50	27.3x27.3 (Module size)	75.00 x 52.70
Active Area Size	mm	70.42 x 20.82	147.5 x 11.5	21.744x10.846	55.01 x 27.49
Dot Pitch	mm	0.60 x 0.60	0.65 x 0.70	0.17x0.17	0.43 x 0.43
Total Thickness(with Polarizer)	mm	13.1	13.1(13.6MAX)	2.45	7.5
Interface	-	4 or 8-bit 68/80,I2C, SPI	4 or 8-bit 68/80,I2C, SPI	I2C	※80 Default (6800.SERIAL.interface is option)
Logic System Power Voltage(LSPV)	V	2.8 ~ 5.3	2.8 ~ 5.3	1.65~3.3	2.8 ~ 5.3
Color	-	White/Yellow	White/Yellow	White/Yellow	White/Yellow/Blue/Green
Lunimance(with Polarizer)	cd/m²	100/100	100	80/100	80/80/80/120
Gray Scale	-	--	--	--	--
Operating Temperatur	℃	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Assembly	-	Pin	Pin	Pin	Pin

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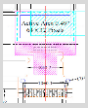
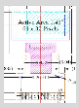
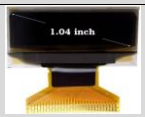
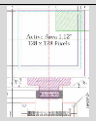
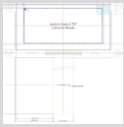
PI-TEK DISPLAY OLED MODULES

2018. v2.0

PMOLED MONO

		Mass Production	Mass Production	Mass Production	Mass Production	Mass Production
		PG7240A	PG6432A(14PIN)(I2C)	PG6432T(15PIN)(4-SPI)	PG6448A	PG12832K
External View						
Number of Dots(W x H)	-	72 x 40	64 x 32	64 x 32	64 x 48	128 x 32
Diagonal Active Area Size	inch	0.42	0.49	0.49	0.66	0.91
Outline	mm	12.00x11.00 (Panel size)	14.50x11.60 (Panel size)	14.50x11.60 (Panel size)	18.46x18.10x1.45 (Panel size)	30.00x11.50 (Panel size)
Active Area Size	mm	9.196x5.18	11.18 x 5.58	11.18 x 5.58	13.42x10.06	22.384x5.584
Dot Pitch	mm	0.128x0.13	0.175 x 0.175	0.175 x 0.175	0.21x0.21	0.175x0.175
Total Thickness	mm	1.25	1.20	1.20	1.45	1.4
Interface	-	I2C	I2C	4-wire SPI	8bit 68XX/80XX 4-wire SPI ,I2C	4-wire SPI
Logic System Power Voltage(LSPV)	V	3.3~3.5	1.65 ~ 3.3	1.65 ~ 3.3	1.65~3.3	1.65~3.3
Color	-	White	White	White	Blue/White	Blue/White
Lunimance(with Polarizer)	cd/m²	450	200	200	80/100	1
Gray Scale	-	1	1	1	1	1
Operating Temperatur	℃	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Assembly	-	Soldering	Soldering	Soldering	Soldering	Soldering
Development Phase		Mass Production	Mass Production	Mass Production	Mass Production	Mass Production
Model Name		PG9616T	PG9616H	PG12832J	PG12832I	PG12832H
External View						
Number of Dots(W x H)	-	96 x 16	96 x 16	128 x 32	128 x 32	128 x 32
Diagonal Active Area Size	inch	0.69	0.84	0.87	0.91	0.91
Outline	mm		29.10x9.20 (Panel size)	29.00x8.70(Panel size)	30.00x8.90 (Panel size)	30.00x11.50 (Panel size)
Active Area Size	mm	17.26 x 3.18	21.104x3.504	21.356x5.324	22.384x5.584	22.384x5.584
Dot Pitch	mm	0.18 x 0.20	0.22x0.22	0.167x0.167	0.175x0.175	0.175x0.175
Total Thickness	mm	1.30	1.30	1.2	1.40	1.45
Interface	-	I2C	I2C	4-wire SPI	4-wire SPI	4-wire SPI
Logic System Power Voltage(LSPV)	V	1.65~3.3	1.65~3.3	1.65~3.3	1.65~3.3	1.65~3.3
Color	-	White	Blue/White	White	White	Blue/White
Lunimance(with Polarizer)	cd/m²	150	150/150	250	250	150/150
Gray Scale	-	1	1	1	1	1
Operating Temperatur	℃	-40 to +80	-40 to +70	-40 to +70	-40 to +70	-40 to +70
Storage Temperatur	℃	-40 to +80	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Assembly	-	Soldering	Connector	Soldering	Soldering	Soldering
Development Phase		Mass Production	Mass Production	Mass Production	Mass Production	Mass Production
Model Name		PG12864H	PG64128B	PG12832T	PG136160A	PG128128T
External View						
Number of Dots(W x H)	-	128 x 64	64 x 128	128 x 32	136 x 160	128 x 128
Diagonal Active Area Size	inch	0.96	0.96	1.04	1.07	1.12
Glass Size/Outline	mm	26.70x19.26 (Panel size)	14.00x28.00 (Panel size)	29.80x14.50(Panel size)		
Active Area Size	mm	21.744x10.846	10.86x21.74	25.58x6.38	27.18 x 23.1	20.076 x 20.076
Dot Pitch	mm	0.17x0.17	0.17x0.17	0.20x0.20	0.17 x 0.17	0.157 x 0.157
Total Thickness(with Polarizer)	mm	1.45	1.20	1.30	1.00	1.20
Interface	-	8bit 68XX/80XX 3 or 4-wire SPI ,I2C	4-wire SPI ,I2C	8bit 68XX/80XX 3 or 4-wire SPI ,I2C	4-wire SPI	8bit 68XX/80XX 4-wire SPI ,I2C
Logic System Power Voltage(LSPV)	V	1.65~3.3	1.65~3.5	1.65~3.3	1.65 ~ 3.5	1.65 ~ 3.5
Color	-	White/Yellow/Blue/Area Color	White	White	White	White
Lunimance(with Polarizer)	cd/m²	120/100	150	100	200	200
Gray Scale	-	1	1	1	1	1
Operating Temperatur	℃	-40 to +70	-40 to +70	-40 to +70	-40 to +70	-40 to +70
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Assembly	-	Soldering	Soldering	Soldering	Soldering	Soldering
Development Phase		Mass Production	Mass Production	Mass Production	Mass Production	Mass Production
Model Name		PG12864T	PG12864U(ZIF)	PG12816A	PG12864K	PG12832B
External View						
Number of Dots(W x H)/Display Format	-	128 x 64	128 x 64	128 x 16	128 x 64	128 x 32
Diagonal Active Area Size	inch	1.30	1.30	1.36	1.54	1.71
Glass Size/Outline	mm	34.50x23.00 (Panel size)	34.50x23.00 (Panel size)	44.50x8.66 (Panel size)	42.04x27.22(Panel size)	50.50x15.75 (Panel size)
Active Area Size	mm	29.42x14.70	29.42x14.70	34.408x3.448	35.052x17.516	42.22x10.54
Dot Pitch	mm	0.23x0.23	0.23x0.23	0.269x0.217	0.274x0.274	0.33x0.33
Total Thickness(with Polarizer)	mm	1.45	1.45	0.30	1.45	2.0
Interface	-	8bit 68XX/80XX 3 or 4-wire SPI ,I2C	8bit 68XX/80XX 3 or 4-wire SPI ,I2C	3-wire SPI	8bit 68XX/80XX SPI ,I2C	3 or 4 -wire SPI ,I2C
Logic System Power Voltage(LSPV)	V	1.65~3.3	1.65~3.3	1.65~3.3	1.65~3.3	1.65~3.3
Color	-	White	White	White	White/Yellow/Blue	White/Orange
Lunimance(with Polarizer)	cd/m²	100	100	600	120/150/120	150/80
Gray Scale	-	1	1	1	1	1
Operating Temperatur	℃	-40 to +70	-40 to +70	-20 to +60	-40 to +80	-40 to +70
Storage Temperatur	℃	-40 to +85	-40 to +85	-30 to +70	-40 to +85	-40 to +85
Assembly	-	Soldering	Connector	Connector	Connector	Connector
Development Phase		Mass Production	Mass Production	Mass Production	Mass Production	Mass Production
Model Name		PG12832A	PG12864A	PG12864C	PG12864D(with BEZEL Type)	PG12864L
External View						
Number of Dots(W x H)/Display Format	-	128 x 32	128 x 64	128 x 64	128 x 64	128 x 64
Diagonal Active Area Size	inch	2.23	2.42	2.42	2.70	2.70
Glass Size/Outline	mm	62.00x24.00 (Panel size)	60.50x37.00 (Panel size)	60.50x37.00 (Panel size)	73.00x41.86 (Panel size)	73.00x41.86 (Panel size)
Active Area Size	mm	55.02x13.10	55.01 x 27.49	55.01 x 27.49	61.41 x 30.69	61.41 x 30.69
Dot Pitch	mm	0.43x0.41	0.43 x 0.43	0.43 x 0.43	0.48 x 0.48	0.48 x 0.48
Total Thickness(with Polarizer)	mm	2.0	2.0	2.0	2.0	2.0
Interface	-	8bit 68XX/80XX 4-wire SPI ,I2C	8bit 68XX/80XX 4-wire SPI ,I2C	8bit 68XX/80XX 4-wire SPI ,I2C	8bit 68XX/80XX SPI	8bit 68XX/80XX 3 or 4-wire SPI
Logic System Power Voltage(LSPV)	V	1.65~3.3	2.8 ~ 5.3	2.8 ~ 5.3	2.4 ~ 3.5	2.4 ~ 3.5
Color	-	White/Yellow/Blue (SSD1369) Green (SSD1305)	White/Blue/Yellow/Green	White/Blue/Yellow/Green	Yellow	White/Yellow
Lunimance(with Polarizer)	cd/m²	120/120/120/120	80/80/80/120	80/80/80/120	105	80/80
Gray Scale	-	1	--	--	16	16
Operating Temperatur	℃	-40 to +80	-40 to +80	-40 to +80	-30 to +85	-40 to +70
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +90	-40 to +85
Assembly	-	Connector	Connector	Soldering	Connector	Connector
Development Phase		Mass Production	Mass Production	Mass Production	Mass Production	
Model Name		PG25664D	PG25664B	PG25664A	PG25664C	
External View						
Number of Dots(W x H)/Display Format	-	256 x 64	256 x 64	256 x 64	256 x 64	
Diagonal Active Area Size	inch	2.08	2.80	3.12	5.50	
Glass Size/Outline	mm	60.50 x 19.00	84.00 x 25.80	88.00 x 27.80	146.00 x 45.00	
Active Area Size	mm	51.18 x 12.78	69.104 x 17.264	76.78 x 19.18	135.65 x 33.89	
Dot Pitch	mm	0.20 x 0.20	0.270 x 0.270	0.30 x 0.30	0.53 x 0.53	
Total Thickness(with Polarizer)	mm	1.60	2.00	2.00	2.00	
Interface	-	8-bit 68/80,I2C,3 or 4-wire SPI	8-bit 68/80,I2C,4-wire SPI	8-bit 68/80,I2C,3 or 4-wire SPI	8-bit 68/80,I2C,4-wire SPI	
Logic System Power Voltage(LSPV)	V	2.4 ~ 3.5	2.4 ~ 3.5	2.4 ~ 3.5	2.4 ~ 3.5	
Color	-	White	Blue/Yellow	Blue/Green/White/Yellow	Yellow/Green	
Lunimance(with Polarizer)	cd/m²	150	80/80	80/120/80/80	60/80	
Gray Scale	-	16	16	16	16	
Operating Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +85	
Storage Temperatur	℃	-40 to +90	-40 to +90	-40 to +90	-40 to +90	
Assembly	-	Soldering	Connector	Connector	Connector	

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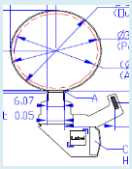
PI-TEK DISPLAY OLED MODULES

2018. v2.0

AMOLED

		Mass Production	Mass Production	Mass Production	Mass Production
		PA390390(1.2" True circle display)	PA240240A	PA400400A	PA320320A
					
Number of Dots(W x H)	-	390 x 390	240 x 240	400 x 400	320 x 320
Diagonal Active Area Size	inch	1.20	1.30	1.39	1.63
Outline	mm	33.22x33.75	25.68x29.84	38.6x40.5	32.08x36.48
Active Area Size	mm	30.42x30.42	23.28x23.28	35.4x35.4	29.28x29.28
Dot Pitch	um	--	97		
Total Thickness	mm	0.656	1.173	0.7	0.7
Interface	-	**MIPI**	**Dual SPI**	**MIPI DSI**	**MIPI DSI**
VCI/VDDI	V	3.3/1.8	3.3/1.8	2.8/1.8	3.0/1.8
Color	-	16.7M	16.7M	16.7M	16.7M
Lunimance(with Polarizer)	cd/m²	**350**	**350**	**300**	**300**
Gray Scale	-	Y	Y	Y	Y
Operating Temperatur	℃	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Assembly	-	Connector	Connector	Connector	Connector

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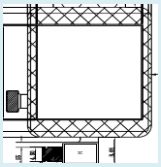
Development Phase		Mass Production	Mass Production		Mass Production
Model Name		PA320320A+CTP (2D)	PA540960A4.3V0		PL176176A
External View					
Number of Dots(W x H)	-	320 x 320	540 x 960		176 x 176
Diagonal Active Area Size	inch	1.63	4.30		1.28
Glass Size/Outline	mm	34.7x40.5	57.26x103.87		26.02 (H) × 27.82(V)
Active Area Size	mm	29.28x29.28	53.46x95.04		23.02 (H)×23.02(V)
Dot Pitch	mm	--	0.033 x 0.099		--
Total Thickness(with Polarizer)	mm	1.35	0.77		0.844 * 1
Interface	-	**MIPI DSI**	**RGB / MIPI**		**SPI**
VCI/VBAT	V	3.0/1.8	3.0(VDD)/1.8(VDDIO)		3
Color	-	16.7M	16.7M		Yes
Lunimance(with Polarizer)	cd/m²	**300**	**280**		**30**
Gray Scale	-	Y	Y		Y
Operating Temperatur	℃	-40 to +80	-40 to +80		-20 to +70
Storage Temperatur	℃	-40 to +85	-40 to +85		-30 to +80
Assembly	-	Connector	Connector		Connector

PMOLED COLOR

		Mass Production	Mass Production	Mass Production	Mass Production
		PC6464TC	PC9664GC	PC9696GC	PC12896GC
Number of Dots(W x H)/Display Format	-	64 x 64	96 x 64	96 x 96	128 x 96
Diagonal Active Area Size	inch	0.60	0.95	1.10	1.27
26.02 (H) × 27.82(V) × 0.844 *1	mm	15.00 (H) × 17.50(V)	25.70x22.20	25.90x30.10	33.70x26.90
Active Area Size	mm	10.73 (H)×10.72(V)	20.14x13.42	19.852x19.852	25.708x19.28
Dot Pitch	mm	0.056x0.168	0.07x0.21	0.069x0.207	0.067x0.201
Total Thickness(with Polarizer)	mm	1.2	1.50	1.30	1.60
Interface	-	4-wire SPI	8bit 68XX/80XX 4-wire SPI	8bit 68XX/80XX 4-wire SPI	8bit 68XX/80XX 3 or 4-wire SPI
Logic System Power Voltage(LSPV)	V	1.65~3.5	2.4~3.5	2.4~3.3	2.4~3.5
Color	-	Full Color	Full Color	Full Color	Full Color
CR	-	200	100	100	100
Gray Scale	-	Full Color	Full Color	Full Color	Full Color
Operating Temperatur	℃	-40 to +70	-40 to +80	-40 to +80	-40 to +80
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Assembly	-	Connector	Connector	Connector	Connector

Development Phase		Mass Production	Mass Production	Mass Production	
Model Name		PC128128GC	PC160128HC	PC160128GC	
External View					
Number of Dots(W x H)/Display Format	-	128 x 128	160 x 128	160 x 128	
Diagonal Active Area Size	inch	1.50	1.45	1.69	
Glass Size/Outline	mm	33.80x34.00	35.80x30.80	39.90x34.00	
Active Area Size	mm	26.855x26.864	28.780x23.024	33.575x26.864	
Dot Pitch	mm	0.07x0.21	0.06x0.18	0.07x0.21	
Total Thickness(with Polarizer)	mm	1.60	1.6	1.60	
Interface	-	8bit 68XX/80XX 4-wire SPI	8-/9bit 80XX 4-wire SPI ,6bit RGB	8-/9bit 80XX 4-wire SPI ,6bit RGB	
Logic System Power Voltage(LSPV)	V	2.4~3.5	2.6~3.3	2.6~3.3	
Color	-	Full Color	Color	Color	
Lunimance(with Polarizer)	cd/m²	90	100	75	
Gray Scale	-	Full Color	Color	Color	
Operating Temperatur	℃	-40 to +80	-40 to +80	-40 to +80	
Storage Temperatur	℃	-40 to +85	-40 to +85	-40 to +85	
Assembly	-	Connector	Connector	Connector	