



# TRIO-170-AUTF

## Product Specification

Low Power Consumption, No Extra Heat Generation.

### TRIO-170-AUTF : 17" Direct Sunlight Readable TFT LCD

#### General Specifications

Module Size	358.5(H) x 296.5(V) Typ. x 15.8(D) Max mm
Effective Display Area	337.920(H) x 270.336(V) mm
Driver Element	a-si TFT
Dor Number	1280 x 3(RGB) x 1024
Dot Pitch	0.264(per one triad) x 0.264 mm
Interface Mode	Dual Channel LVDS
Pixel Arrangement	Stripe
Display Colors	16.7M colors (RGB 6-bits +Hi-FRC data)
Surface Treatment	High Efficiency AR coating (Haze <15)
Operating Temp	0 °C - 50 °C
Storage Temp	-20 °C - 60 °C
Weight	2000 g
RoHS Compliant	RoHS Compliance

#### INTERFACE SIGNALS

Pin	Symbol	Description
1	RxO0-	Negative LVDS differential data input (Odd data)
2	RxO0+	Positive LVDS differential data input (Odd data)
3	RxO1-	Negative LVDS differential data input (Odd data)
4	RxO1+	Positive LVDS differential data input (Odd data)
5	RxO2-	Negative LVDS differential data input (Odd data, H-Sync, V-Sync, DSPTMG)
6	RxO2+	Positive LVDS differential data input (Odd data, H-Sync, V-Sync, DSPTMG)
7	GND	Power Ground
8	RxOC-	Negative LVDS differential clock input (Odd clock)
9	RxOC+	Positive LVDS differential clock input (Odd clock)
10	RxO3-	Negative LVDS differential data input (Odd data)
11	RxO3+	Positive LVDS differential data input (Odd data)
12	RxE0-	Negative LVDS differential data input (Even data)
13	RxE0+	Positive LVDS differential data input (Even data)
14	GND	Power Ground
15	RxE1-	Negative LVDS differential data input (Even data)
16	RxE1+	Positive LVDS differential data input (Even data)
17	GND	Power Ground
18	RxE2-	Negative LVDS differential data input (Even data)
19	RxE2+	Positive LVDS differential data input (Even data)
20	RxEC-	Negative LVDS differential clock input (Even clock)
21	RxEC+	Positive LVDS differential clock input (Even clock)
22	RxE3-	Negative LVDS differential data input (Even data)
23	RxE3+	Positive LVDS differential data input (Even data)
24	GND	Power Ground
25	GND	Power Ground
26	NC	No contact
27	GND	Power Ground
28	VCC	+5.0V Power Supply
29	VCC	+5.0V Power Supply
30	VCC	+5.0V Power Supply

Note: 1. Specifications are subject to change without notice.  
2. Original LCD Model Spec.: AUO G170EG01 V0

#### Optical Characteristics

	Symbol	Min	Typ	Max	Unit
Contrast Ratio	CR		1000		
Brightness	B <sub>white</sub>		380		cd/m <sup>2</sup>
LCD Transmission	T				%
Response Time	t <sub>r</sub>	-	15	20	msec
	t <sub>f</sub>	-	35	50	msec
Viewing Angle					
X Axis, Right	x <sub>+</sub>	70	85		deg.
X Axis, Left	x <sub>-</sub>	70	80		deg.
Y Axis, Up	y <sub>+</sub>	75	85		deg.
Y Axis, Down	y <sub>-</sub>	75	85		deg.
Outdoor Readability*					
Ambient light		10000	20000	30000	cd/m <sup>2</sup>
Brightness gain (min)	35°	580	780	980	cd/m <sup>2</sup>
Brightness gain (max)	35°				cd/m <sup>2</sup>
Reflectance (%)	35°		1-2		%

#### Electrical Specifications

	Symbol	Value			Unit
		Min	Typ	Max	
Backlight					
Lamp Input Voltage	V <sub>L</sub>		640 @ 7.5mA		Vrms
Lamp Current	I <sub>L</sub>	7	7.5	8	m A
Lamp On Voltage (25 C)	V <sub>O</sub>				Vrms
Lamp On Voltage (0 C)	V <sub>O</sub>				Vrms
Operating Frequency	Fg	40	60	80	KHz
Lamp Life Time	t <sub>LP</sub>	40,000	50,000		hours
Power Consumption	P <sub>w</sub>		19.2		W

	Symbol	Value			Unit
		Min	Typ	Max	
Module					
Power Supply Voltage	Vcc	4.5	5	5.5	V
Power Supply Current	Icc		1.05	1.16	m A
Ripple Voltage	Vpp				mV <sub>p-p</sub>
Power Consumption	P <sub>w</sub>		5.25	5.8	W

\*Equivalent brightness under sunlight.



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