

# TL-351

## 20" Thin Lightweight display (1600 x 1200)



The TL-351 is Barco's 20" thin and lightweight display offering significant benefits with respect to dimensions, ruggedization and intelligence. The TL display family combines unmatched thinness with exceptionally low weight to provide a unique, rugged display solution, especially for applications where space and weight are critical.

The TL-351 features a first-class 20" Active Matrix Liquid Crystal Display offering excellent performance in terms of brightness, crispness, contrast and viewing angle. Several options and bezel configurations are available to address virtually any mounting need in any application. Additionally, the TL-351 combines this high level of performance and versatility with a very competitive price/performance value.

Barco's TL displays have been designed and qualified for application in the most hostile environments. Next to the standard ruggedization level, Barco offers its TL displays with an extra ruggedization level, which is suited for specific naval combat, army and airborne applications.

**BARCO**

Visibly yours

**Product specifications****TL-351**

<b>Panel size</b>	20.1"	
<b>Resolution</b>	1600x1200 (UXGA)	
<b>Brightness</b>	Typical 200 cd/m <sup>2</sup> (58 fL)	
<b>Contrast ratio</b>	500:1	
<b>Vibration</b>		
	<b>Standard</b>	<b>Rugged option</b>
	<b>SHIPS</b>	MIL-STD-167-1 Type 1
	<b>AIRBORNE</b>	MIL-STD-167-1 Type 1
	2g MIL-E-5400T Fig.2, curve Ila (sheet 2 of 3)	5g MIL-E-5400T Fig.3, curve IIIa (sheet 2 of 3)
<b>Shock</b>		
	<b>Standard</b>	<b>Rugged option</b>
	MIL-STD-810	MIL-STD-901D / MIL-STD-810
	Meth. 516.2	Lightweight / Meth. 516.2
	30g - 12.5ms Half sine - X,Y,Z axis	Grade A / 40g - 16ms half sine
<b>Operational temperature</b>		
	<b>Standard</b>	<b>Rugged option</b>
	Low temp: 0°C	Low temp: -40°C
	High temp: +50°C	High temp: +55°C
<b>Storage temperature</b>		
	<b>Standard</b>	<b>Rugged option</b>
	Low temp: -40°C	Low temp: -40°C
	High temp: +70°C	High temp: +70°C
<b>Relative humidity</b>		
	<b>Standard</b>	<b>Rugged option</b>
	max. 95% @ 40°C	max. 95% @ 40°C
<b>Ingress protection</b>		
	<b>Standard</b>	<b>Rugged option</b>
	IP65 on console level	IP65 on unit level with optional military interface box
<b>Drip proof</b>		
	<b>Standard</b>	<b>Rugged option</b>
	MIL-STD-810F meth. 506.4 proc III	
<b>Altitude low pressure</b>		
	<b>Standard</b>	<b>Rugged option</b>
	20000ft (425 mbar)	40000ft (187 mbar)
<b>EMI / EMC</b>		
	<b>Standard</b>	<b>Rugged option</b>
	MIL-STD-461 E - NAVY Applications	MIL-STD-461 E - Navy fixed and Airforce Applications
<b>FCC</b>		
	<b>Standard</b>	<b>Rugged option</b>
	FCC-A	FCC-A
<b>Signal inputs</b>	DVI-I, VGA	
<b>RS-232 serial port</b>	9 pin sub D	
<b>Power</b>	9W4 sub D	
<b>Controls</b>	UP / DOWN / SEL / QUIT / STANDBY In conjunction with OSD	
<b>Indicators</b>	Green 'Power' LED, Red 'Fault' LED	
<b>OSD</b>	On-Screen Display	
<b>Power Supply</b>	Standard 12V & 28V DC, Optional: 115-220V AC as external module	
<b>Guidelines</b>	MIL-STD-704E	
<b>Power consumption</b>	90 W	

**Product specifications****TL-351**

<b>Finishing</b>	Black RAL 9005
<b>MTRR</b>	Less than 30 minutes
<b>Scaling modes</b>	No scaling/full screen/keep aspect AutoSet, Automatic Phase Adjust (APA), Automatic Gain Control (AGC)
<b>Options</b>	LCD Flicker Compensation (special configuration) Low latency Touch screen