THRUPUT

Rack mount 21.3" display Replacement
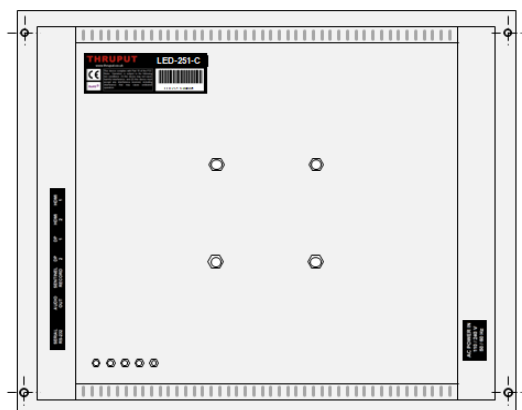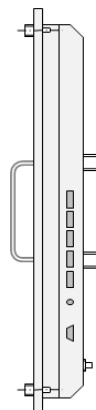## THR-LED-251

The Thruput LED-251 monitor is a direct Form, Fit & Function replacement for the Barco RFD-251 series of monitors. It is brighter, sharper, with a bigger viewing area and is more reliable.

The monitor provides 1280 x 1024 resolution with quadruple pixel redundancy, and supports legacy analogue and current digital video formats to provide a long term, future proof solution:

- 21.3" 1280 x 1024 resolution with quadruple pixel redundancy.
- Plug and play replacement for all versions of Barco RFD-251.
- Legacy analogue and future digital video formats supported.
- Restores original colours, contrast and brightness.
- LED backlighting for maximum life and durability.

	BARCO RFD-251	THRUPUT LED-251		Replaces NSN:
Brigtness	210 NITS	1,000 NITS	**+400%**	**Replaces NSN:**
Contrast	300:1	1300:1	**+400%**	
Backlight	Fragile CCFL	Robust LED	**ROBUST**	7025-01-515-9328
Pixels	1.3M	5.2M	**+300%**	
Inputs	RGBHV	RGBHV,	**2xDP, 2 HDMI**	7025-01-520-4626
Size	399 x 319 mm	422 x 338 mm	**+11%**	5980-01-552-4719
Power	130 W	30 W	**75% saving**	

21.3" 1280 X 1024 resolution

Quadruple pixel redundancy

THRUPUT LED-251-C

Simplicity
- No special tools
- Plug and play replacement.
- Ultra-high reliability.
- Silent operation.
- No training required

Safety
- Low temperature operation
- Directly maps input pixel to LCD pixel
- Front safety glass
- No special lifting gear
- Low voltage operation

Green solution
The LED-251 is a green solution:

- Low power, less than 30% of the running cost of the original NSN screens.
- Low heat, reduces cooling requirements for the operations room by up to 80%.
- Fully RoHS compliant.

Pure colour brightness control
Brightness is controlled by Thruput's pure colour control technology, making it ideal for any Operations Room:

- Colour accuracy and contrast at all brightness settings.
- Uniform brightness across the screen.

Military upgrade options

LED-251-M RPS	Redundant Power supply
LED-251-M LFR	LCF Flicker reduction
LED-251-M LFR	Hand held controller
LED-251-M TS	Touch screen
LED-251-M LT	Loop through COAX BNC's
LED-251-M CPC	Custom power connectors
LED-251-M PCC	PCB conformal coating

Specification THR-LED-251-C

Inputs	2 off DP 1.2 2 off HDMI 2.0 (available for DVI SL via cable) 1 off analogue video, 5 BNC (RGB VH)
Outputs	DP 1.2 Recording Port (Sentinel) 3.5 mm Audio jack
Analogue controls	Automatic phase and timing
Remote Access	RS 232 control and monitoring
Resolution	1280 x 1024 with quadruple pixel redundancy
Pixel Pitch	0.165 x 0.165 mm
Brightness	1000 nits
Contrast	1300 : 1
Colour	32 bit colour
Surface	Protective over glass
Power	Universal input voltage, worldwide use. 100 to 240 Vac ±10% 50 / 60 Hz ±5%
Size	9U rack mount (48.2 x 40.0 x 5.2 cm)
Weight	Estimated 7.5 Kg
Mounting	19" rack: 9U, VESA 100 mm
MTBF	87,000 hours (25% brightness)
MTTR	10 minutes
HELT	130,000 (25% brightness)
Backlight	LED

Environmental design estimates.		
	Temperature	Operating: 0°C to 35°C (32°F to 95°F) Non-operating: –20°C to 60°C (–4°F to 140°F)
	Humidity	10% to 90% (non-condensing)
	Altitude	-300 to 10,000 feet MSL
	Shock	N/A
	EMC	EN55024: 1998+A2:2003 EN55022: 2006+A1:2007 FCC (part 15)
	Noise	0 dB (silent operation)
	Certification	CE, FCC (part 15)

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