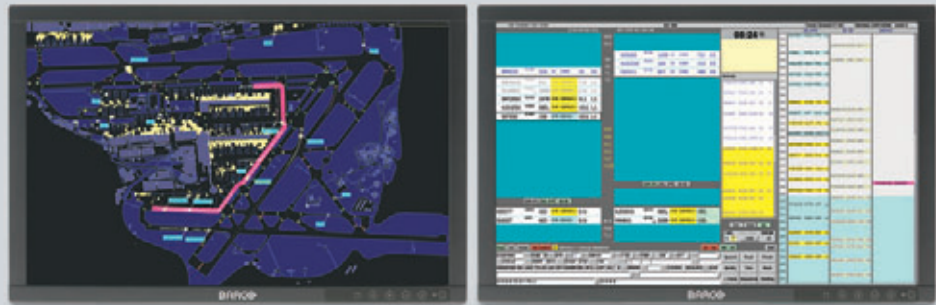


# TCD-361

## High-Bright 24" Tower Control Display



The growing reliance on advanced software tools in today's ATC towers creates a need for larger HMI display surfaces. At the same time, ATC control towers are typically characterized by strict spatial limitations and a wide scale of ambient light conditions, ranging from bright daylight to dimmed night time.

In answer to this, Barco has created the TCD-361, a 24" wide-screen display that brings optimum reading quality, reliability and user-comfort to the tower control environment. The TCD-361 offers excellent brightness (more than 350 cd/m<sup>2</sup>, peak typ. 500 cd/m<sup>2</sup>) and a wide dimming ratio (up to 100:1). The display's integrated Ambient Light Compensation function automatically adjusts brightness settings in function of the ambient light conditions. Barco's unique Automatic Phase Adjust technology guarantees artifact-free images over time.

The TCD-361 has a slimline, low-height design to allow for high spatial efficiency in the tower and an excellent view outside. Built on Barco's near-zero maintenance concept, the display is easy to set up, and provides internal stabilization, calibration and several Built-In Test (BIT) patterns for easy diagnostics. Thanks to its thermal management design, the TCD-361 offers long-lifetime and low-noise operation. In addition, the optional health and configuration software continuously checks the registered TCD-361 displays for their online status and warns system administrators for preventive maintenance actions.

### Main features:

- 24" wide-screen AMLCD
- 2.3 MegaPixel resolution (1920 x 1200, WUXGA)
- Optically stabilized brightness (up to 350 cd/m<sup>2</sup> / max. 500 cd/m<sup>2</sup>)
- High contrast (typ. 1000:1)
- High dimming ratio (up to 100:1)
- Continuous Automatic Phase Adjust for artifact-free images over time
- Long lifetime backlight (typ. 40,000 hours in mixed tower use)
- Low noise and low heat thanks to fanless design
- Multiple inputs for flexible control
- Sleek bezel design, maximizing display surface in tower setup

**BARCO**

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# Technical specifications

## ELECTRO OPTICAL

Panel type:	Active Matrix LCD (Silicon TFT)
Panel diagonal:	24" / 61 cm
Image dimensions:	518 x 324 mm 20.4 x 12.76"
Pixel dimensions:	0.27 x 0.27 mm
Panel resolution:	1920 x 1200 pixels (WUXGA)
Screen specifications:	16 million colors / 256 greyscales per color
Protective front filter:	Hard coated front panel: 3H
Reflection:	Low reflective front panel: haze type typ. 20%
Light output:	stabilized up to 350 cd/m <sup>2</sup> (100 ft) at 10 to 35°C ambient unstabilized typ. 500 cd/m <sup>2</sup> (145 ft) at 10 to 30°C ambient
Dimming ratio:	Up to 100:1
Panel contrast ratio:	typ. 1000:1
Color temperature:	White point selectable between 6000° K - 10000° K
Automatic color calibration:	Via optional external calibration tool Calibration tool (USB) + software required
Viewing angle:	Horizontal and vertical > ± 89° (CR = 10, dark room)

## INTERFACES

3 selectable video inputs:	One DVI – two analog inputs (Automatic upscaling for typical lower resolutions), optional second DVI
Auto-sync:	Separate H&V / Ext. Combined / Sync on Green
Connector type:	DB9 for RS232 link 2 x USB for optional tools & functions: Mini Din for control purposes Ethernet RJ45 for maintenance & control purposes

## CONTROLS

On bezel:	standard 5 control keys: UP; DOWN, ENTER, EXIT, STANDBY
OSD:	Menu driven On-Screen Display
Remote control:	RS232 link (Barco Protocol) / Barco keypad

## POWER

Power supply:	External power supply box
Input:	100 - 240 VAC - 2.5 A
Frequency limits:	45-65Hz
Power consumption:	typical 130W (max. 150W)

## GENERAL DATA

Bezel:	sleek design
Weight:	7.2 kg / 15.8 lbs
MTRR:	LRU based less than 0.5 hrs

## ENVIRONMENTAL

Temperature:	
Operating:	0°C/+35°C (+32°F/+95°F)
Storage:	-20°C/+60°C (-4°F/+140°F)
Humidity:	10 - 85% max (non-condensing) @ 35°C (95°F)
Altitude (pressure):	
Operating:	15,000 ft (57.16 kPa)
Storage:	30,000 ft (30.13 kPa)

## EMC

Emission:	FCC class A vol. II part 15 subpart J
Immunity:	EN50082-2, EN55022 limit A

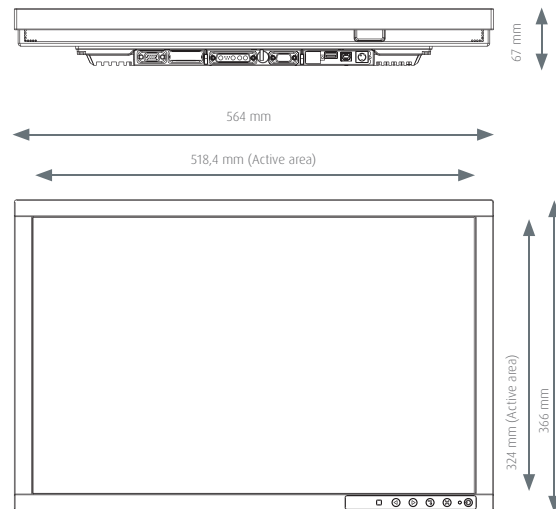
## APPROVALS

IEC 950, UL 1950, c-UL 950, CE 2001

## OPTIONS

- USB based color sensor for color calibrations
- VESA foot

Please contact factory for more details.



In search of continuous improvement

M00037-R02-0110-DS

Application photo by courtesy of Belgocontrol

Technical specifications are subject to change without prior notice

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