

DataLab LCD 15-T

**15" LCD flat panel monitor
with touch screen**



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A low-angle, upward-looking photograph of a tall skyscraper, likely the Willis Tower in Chicago, with its distinctive lattice-like facade. The building is set against a blue sky with scattered white clouds. The image is overlaid with a semi-transparent dark blue rectangular box containing white text.

DataLab LCD 15 / 15-T

LCD flat panel monitor with touch screen

Monitor description

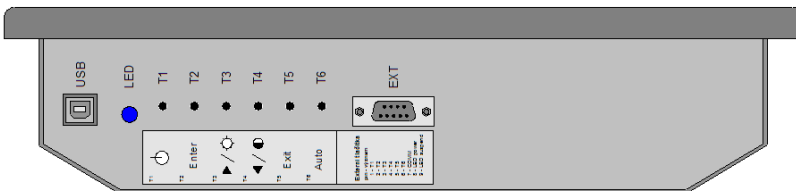
Complete monitor package contains the following parts:

- flat panel monitor
- cable for 230 V AC power supply
- analog VGA cable 1,8 m long
- USB data cable 2 m long (only for monitors equipped with touchscreen)
- installation CD-ROM containing this documentation and touchscreen driver for Windows

Remark

Length of supplied cables can be changed upon order. Longer cables are available, however certain limits must be kept. Maximum length of USB cable is 5 m, VGA cable can be 10 m long. Longer distances can be connected using active repeaters.

Monitor setup



Power and VGA connectors are placed on the bottom side of the monitor, control buttons, USB and monitor control connectors are on the left side of the monitor.

Connectors

Following connectors are available:

- power connector for 230 V AC with fuse.
- analog VGA connector (CANNON 15 Z 3R)
- external control buttons connector (CANNON 9 Z)
- touchscreen USB-B connector (only for monitors equipped with touchscreen).

Control panel

Monitor control panel contains 6 buttons: **Power**, **<**, **>**, **Enter**, **Exit** and **Auto**. wit following functions:

Power	Switch the monitor on/off.
Enter	choose selected menu item or enter submenu.
>	next menu item or adjust brightness (when no menu is opened).
<	previous menu item or adjust contrast (when no menu is opened).
Exit	leave opened submenu or quit menu if the top level menu is active.
Auto	automatic adjustments of monitor parameters according to current VGA signal.

Quick contrast adjustment:

1. Press **<**.button
2. Use **<** and **>** buttons to adjust contrast from 0 (min) to 100 (max).
3. Press **Exit** button to keep selected contrast.

Quick brightness adjustment:

1. Press >.button
2. Use < and > buttons to adjust brightness from 0 (min) to 100 (max).
3. Press **Exit** button to keep selected brightness

On-screen menu functions

On-screen menu can be opened by pressing the **Enter**. button. Requested item can be selected by < and > buttons and confirmed by pressing the **Enter**. button. Pressing the **Exit** button always quits current submenu and returns to the upper menu. If the top-level menu is active, pressing the **Exit** button closes the on-screen menu.

Top level menu items

Auto Adjust	monitor analyzes incoming VGA signal and sets its parameters to optimally fit the image on the panel.
Luminance	enables brightness and contrast adjustment.
Geometry	enables adjusting of horizontal and vertical image positions.
Color	enables setting of image temperature.
OSD	alters position and other parameters of on-screen menu itself.
Language	enables presetting of on-screen menu language.
Recall	restores default values of all monitor parameters.
Miscellaneous	enables adjustment of miscellaneous settings (e.g. image sharpness), shows current resolution and refresh rate etc..
Audio	not used.

Touch screen

The flat panel monitor is optionally equipped with a touch screen. Touch screen panel works similarly to standard computer mouse with USB interface (it is connected to the computer through standard USB cable). To ensure proper function of touch screen make sure that::

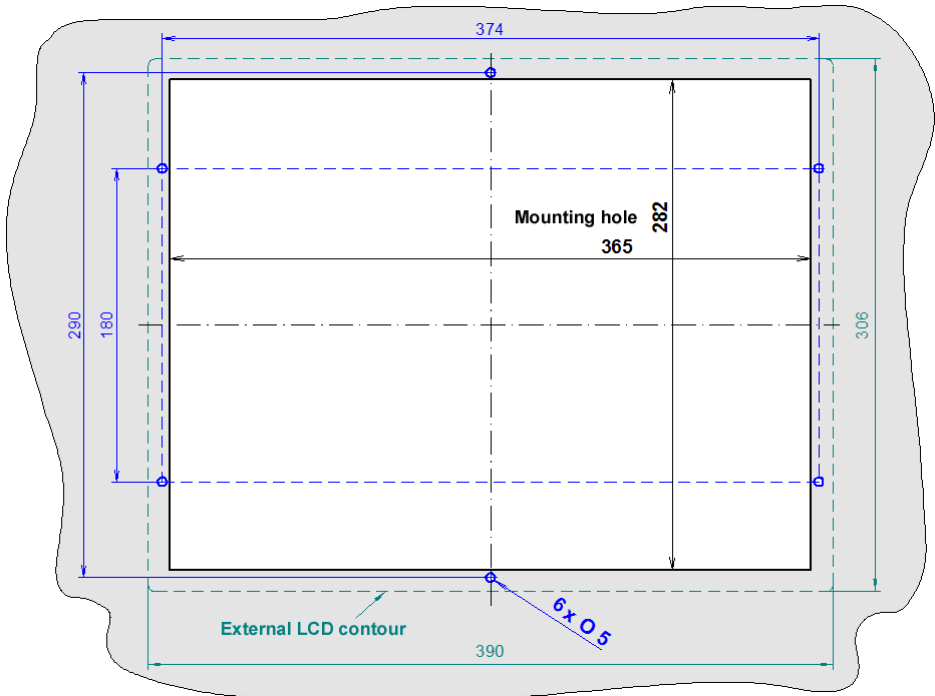
- the computer has at last one free USB port
- touch screen is USB-B port is connected to computer USB-A port with a proper cable
- the driver of the touch screen control unit (you can find it on the accompanying CD-ROM) is properly installed

Remark:

The LCD panel can be supplied with two different revisions of touch screen controller. The revision of touch screen controller used is stated on the LCD panel sticker. Although the functionality of both controllers is the same and users cannot distinguish between them, different driver software must be installed for particular revision.

Monitor mounting hole

DataLab LCD 15-T is designed to be mounted to a panel. Maximal panel thickness is 10 mm. Dimensions are in millimeters.



Remark:

Usually 4 screws on the sides are enough to hold the monitor firmly in place. If the mounting panel is rather thin, two another screws on the top and bottom sides can be also used. Allen wrench head is recommended at last for top and bottom screws, because the available space for screw head is limited.

External control buttons

If the monitor control buttons are not reachable and it is desired to change monitor setting, it is possible to connect external buttons to the monitor through the EXT connector. The EXT connector provides access to contacts of all control buttons, as well as signal LED. Individual connector pins meaning is summarized in the following table:

Pin Cannon DB9	Meaning
1	Power
2	Enter
3	> / brightness
4	< / contrast
5	Exit
6	Auto
7	COMM
8	LED 1 power
9	LED 2 suspend mode

External buttons connector (EXT) pins

It is recommended to use the same external LED colors as are the color of the internal one::

- LED 1 blue
- LED 2 yellow

The reason is the voltage levels, which differs for LEDs of different colors. External LED cathode should be connected to the COMM pin..

Technical specification

Display	TFT 15"
Brightness	250 cd/m ²
Contrast	450 : 1
Pixel size	0,297 mm
Response delay	12 ms
Number of colors	16,7 millions
Native resolution	1024 × 768 pixels
Screen refresh rate	60, 70, 75 Hz
Input signal	RGB analog
Touchscreen	resistive touch panel with USB interface (HMI class) ¹⁾
Power supply	90 – 264V AC, 47 – 63 Hz
Power consumption	30 W
Dimensions	Width × Height × Depth = 400 × 350 × 70mm
Weight	5,3 kg
Protection	IP65 ²⁾

¹⁾ Touch panel is optional component..

²⁾ Valid for front cover.

Ordering codes

DL-LM15T	DataLab LCD 15T 15" LCD monitor with touch screen
DL-LM15	DataLab LCD 15 15" LCD monitor