



**TMS VCL
Instrumentation
Workshop
DEVELOPERS GUIDE**

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Availability

TMS Instrumentation Workshop is available as VCL component for Delphi and C++Builder.

TMS Instrumentation Workshop is available for Delphi 7, 2007, 2009, 2010, XE, XE2, XE3, XE4, XE5, XE6, XE7, XE8, 10 Seattle, 10.1 Berlin, 10.2 Tokyo, 10.3 Rio, 10.4 Sydney & C++Builder 2007, 2009, 2010, XE, XE2, XE3, XE4, XE5, XE6, XE7, XE8, 10 Seattle, 10.1 Berlin, 10.2 Tokyo, 10.3 Rio, 10.4 Sydney.

TMS Instrumentation Workshop has been designed for and tested with: Windows XP, Vista, Windows 7, Windows 8, Windows 10.

Online references

TMS software website:

<https://www.tmssoftware.com>

TMS Instrumentation Workshop page:

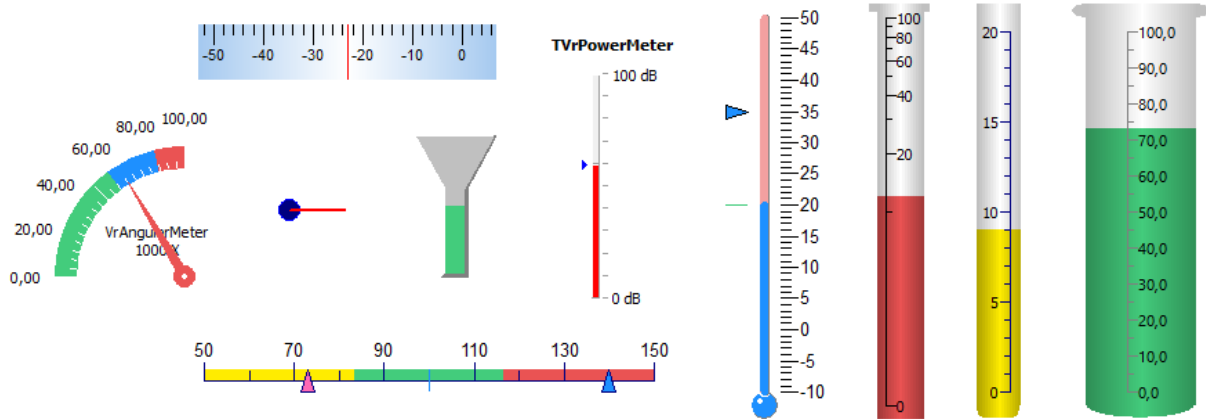
<https://www.tmssoftware.com/site/tiw.asp>

Introduction

TMS Instrumentation Workshop is a library full of components, methods and routines enabling you to create professional looking instrumentation and multimedia applications. A set containing over 80 instrumentation and digital components like leds, scopes, banners, sliders, knob controls, buttons, meters, panels with customized backgrounds and much more.

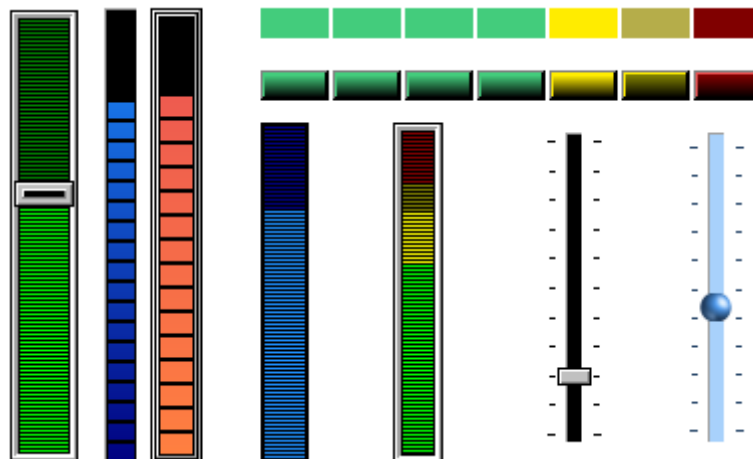
Components

Meters



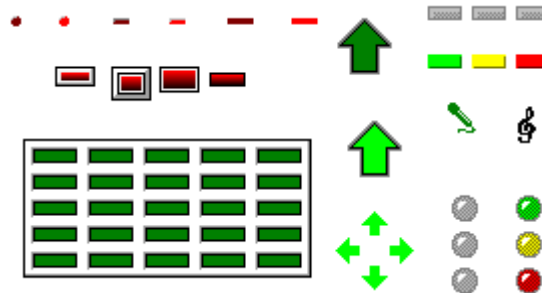
- TVrJogMeter: Rotating meter control
- TVrLineMeter: highly configurable meter control with peak values, linear & logarithmic scale
- TVrThermoMeter: thermometer control with peak values, setpoint and linear or logarithmic scale
- TVrAngularMeter: rounded analog meter device
- TVrMeter: meter control with needle and scale control
- TVrPowerMeter: temperature/progress meter
- TVrCompass: base class needle component
- TVrTank: multi shaped tank control
- TVrTubeMeter: tube meter control with various tube shape settings

Sliders & Bars



- TVrSlider: smooth slider control
- TVrProgressBar: enhanced progress bar
- TVrIndicator: horizontal or vertical row of LEDs
- TVrTrackBar: trackbar component
- TVrLevelBar: progress bar with various fill styles
- TVrGauge: gauge in LCD style

LED Styles



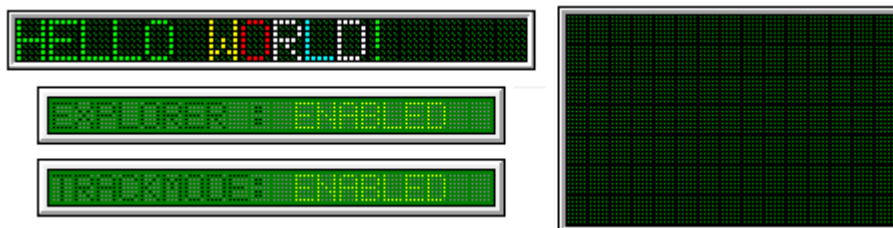
- TVrBlinkLed: sizeable multi color led with blink capability
- TVrCheckLed: checkbox with led
- TVrDigit: 7 segment LED
- TVrImageLed: standard LED control
- TVrLights: row of green / yellow / red leds
- TVrLed: small light bulb control
- TVrArrow: arrow shaped button control
- TVrJoyPad: arrow control with customizable direction
- TVrUserLed: user definable LED control
- TVrRaster: raster of led cells

Counters



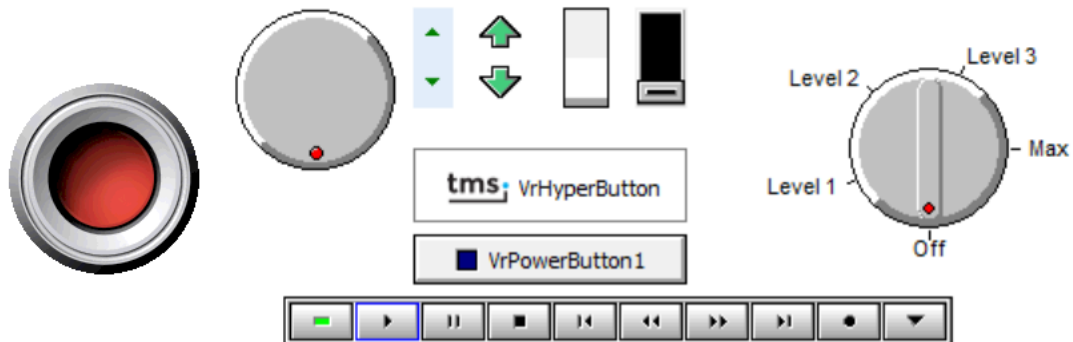
- TVrCounter: counter display with customizable number bitmaps
- TVrNum: displays numeric values in LCD style
- TVrNumLEDS: free configurable 7 segment LED display that can display characters 0..9, ., , : and - in any order
- TVrFloatNum: 7 segment LED display to display floating point numbers with control over nr. Of decimals and negative sign

Multi Colored Matrix



- TVrMatrixGroup: multi line dot matrix control to display text
- TVrMatrix: single line dot matrix control to display text

Buttons



TVrAniButton: animated button using a bitmap filmstrip for animation

TVrBitmapButton: button using bitmap shape

TVrDemoButton: 3D push button with various additional features

TVrHyperButton: web link styled button component

TVrMediaButton: push button control with 3D effect

TVrPowerButton : Windows button control with embedded LED

TVrShadowButton: button with extra shadow effect

TVrShapeBtn: transforms a bitmap in a 3D rendered image

TVrUpDown: updown push button control

TVrRocker: light switch styled switch control

TVrRotarySwitch: sizeable rotary switch with switch position labels

TVrWheel: rounded progress indicator or knob

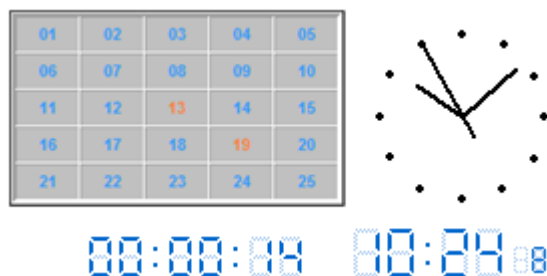
TVrSwitch: switch component

TVrSpinner: up/down control

TVrKeypad: numeric keypad for touchscreen applications

TVrNavigator: multimedia navigator control

Date/Time

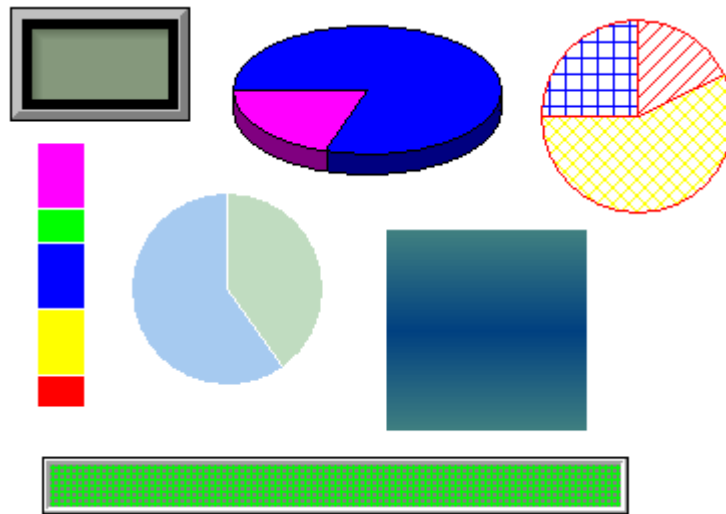


TVrAnalogClock: analog clock in LCD style

TVrCalendar: control for selection of number or images from cells

TVrClock: timer display in LCD style

Graphics



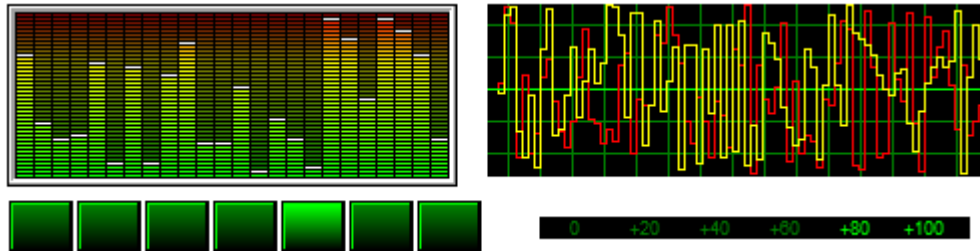
- TVrPieGraph: 2D / 3D percentage pie graph
- TVrPercentPie: percent pie chart graph
- TVrPercentBar: percent bar graph
- TVrHotImage: image with bitmaps for hot and normal state
- TVrLabel: 3D label with rotation and various effects
- TVrBanner: scrolling bitmap with speed & direction control
- TVrDisplay: LCD panel styled control that can contain child controls
- TVrAnimate: animated image using a bitmap filmstrip for animation
- TVrGradient: component for creating multi colored backgrounds
- TVrBorder: beveled outline
- TVrDeskTop: form background
- TVrHyperLink: web link styled label component
- TVrWebLabel: automatic codeless internet link
- TVrBitmapDial: dial control using bitmap filmstrip for position display
- TVrBitmapImage: pattern bitmap image with various settings
- TVrBitmapList: container component for holding bitmaps
- TVrBlotter: container control with child control placement management
- TVrSlideShow: bitmap transition component

Checkboxes & RadioButtons

- | | |
|---|--|
| <input checked="" type="checkbox"/> Enabled unchecked | <input type="radio"/> Radiobutton unchecked |
| <input checked="" type="checkbox"/> Enabled checked | <input checked="" type="radio"/> Radiobutton checked |
| <input type="checkbox"/> Disabled unchecked | <input type="radio"/> Radiobutton unchecked |
| <input checked="" type="checkbox"/> Disabled checked | <input checked="" type="radio"/> Radiobutton checked |

- TVrBitmapCheckBox: checkbox with bitmaps for various states
- TVrBitmapRadioButton: radiobutton with bitmaps for various states

Scope



TVrScanner: tool to display a row of horizontal leds which can be highlighted
TVrSpectrum: row of vertical bars to display a collection of signals
TVrScope: graphic oscilloscope control
TVrScale: displays a scale

Non-visual Controls

TVrDirScan: non visual component for locating files on local or network drives
TVrFormShape: gives your form the shape of a bitmap
TVrRunOnce: disable multiple instances of the application
TVrThread: wrapper for making multithreaded applications easier
TVrCopyFile: wrapper for file copy
TVrStringList: stringlist container component
TVrTrayGauge: component to add progress indicator in system tray
TVrTrayIcon: component to add icon in tray
TVrKeyStatus: provides Num Lock, Caps Lock and Scroll Lock state
TVrWave: wave player component