

# OPUS PROJEKTOR



# An „easy-to-access“ visual editor for OPUS displays

**No programming skills needed for a fully functional project!**

All important CAN protocols are supported

- CANopen and J1939 natively
- Proprietary protocols with CANFreestyle (Layer 2)

Project Tree

Object Palette

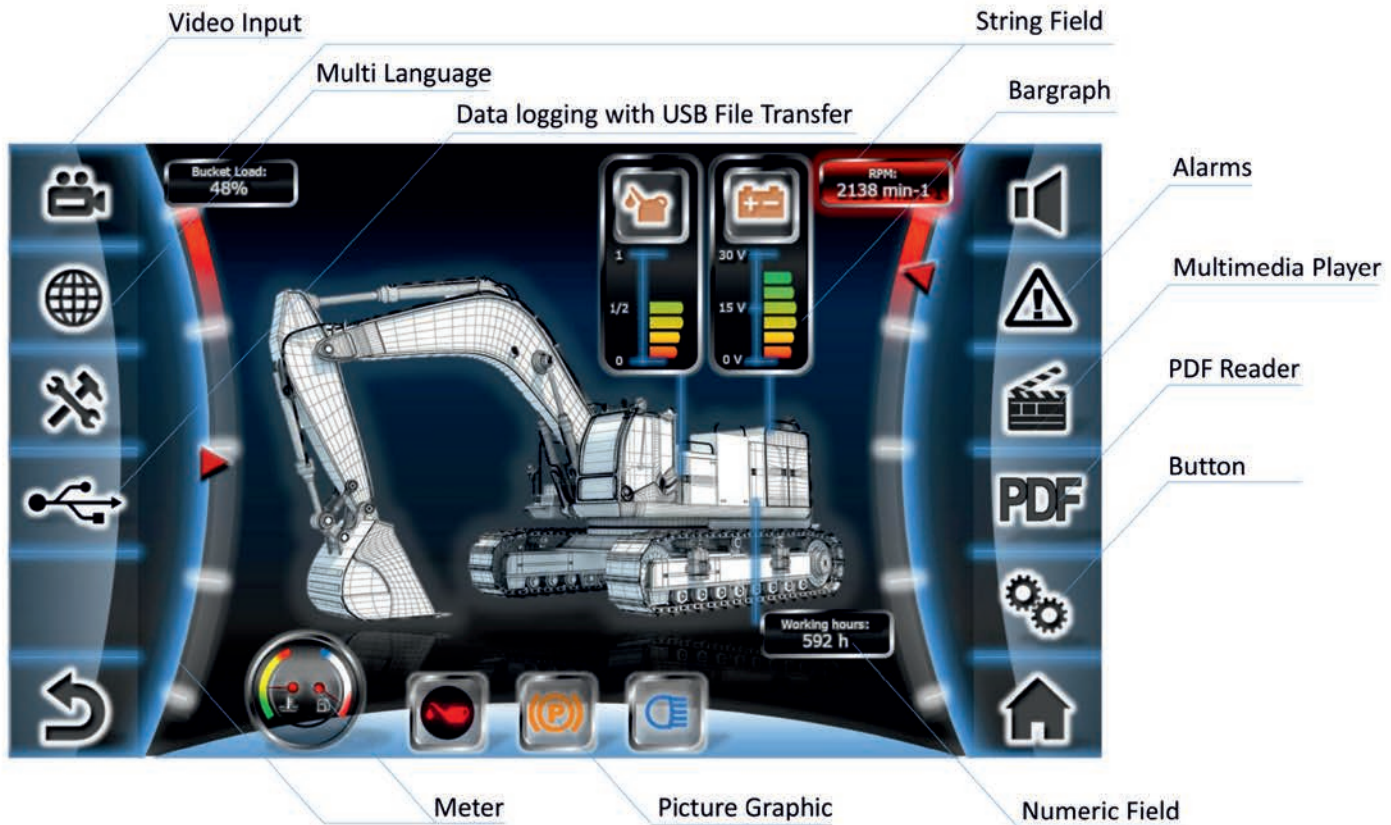
Variable View - ProjectorProject\_1 - Output

Var	Group Name	Name	Length (bits)	Index	SubIndex	Owner
Alarm	Alarm	AlarmCurrent	32	0x2430	0x01	PCClient
Alarm	Alarm	AlarmCursestPriority	8	0x2430	0x05	PCClient
Alarm	Alarm	AlarmDisengaged	32	0x2430	0x04	PCClient
Alarm	Alarm	AlarmShaw	32	0x2430	0x01	PCClient
Alarm	Alarm	AlarmDisengaged	32	0x2430	0x01	PCClient
Analog Inputs	Analog Inputs	AnalogInput1	32	0x2090	0x01	InterBusX-Device

Variables

Object Properties

## Object overview



## Themes and new objects

- Theme Management for different object property sets
- Two new object themes
- Create your own themes for your corporate design
- New objects: Lamps & Switches, Gauges



**Modern Bright**

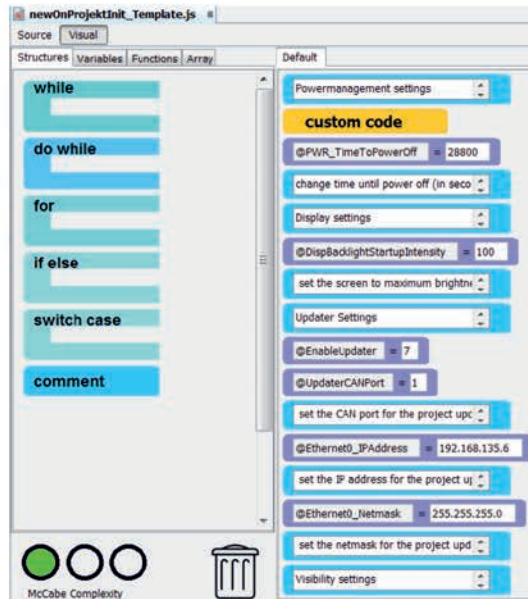


**Modern Dark**



# JavaScript and Visual Programming

```
newOnProjektInit_Template.js
Source Visual
1 //Powermanagement settings
2 setVariableValue("@PWR_TimeToSleepMode", 3600 //change time until
3 getVariableValue("@PWR_TimeToPowerOff", 28800); //change time until
4 //Display settings
5 setVariableValue("@DispBacklightStartupIntensity", 100); // set th
6 //Updater Settings
7 setVariableValue("@EnableUpdater", 7) // enable project update ove
8 setVariableValue("@UpdaterCANPort", 1); // set the CAN port for th
9 setVariableValue("@Ethernet0_IPAddress", "192.168.135.6"); // set
10 setVariableValue("@Ethernet0_Netmask", "255.255.255.0"); // set th
11 //Visibility settings
12 setVariableValue("@Visibility00", 0); // visibility initialization
13 generateAction(actionString: String): un...
14 getAlarmLogRingBufferContent(formatStrin...
15 getProperty(ddoID: Number, propertyName: ...
16 getVariableValid(variableName: String): ...
17 getVariableValue(variableName: String): ...
18 includeFile(filename: String): undefined
19 moveDDO(parentObjectID: Number, objectID...
20 multimediaCommand(multimediaPlayerObject...
21 print(text: String): undefined
22 readFile(filePath: String): Object
23 requestVariableValueFromOwner(nameOfCANo...
24 save2DGraphHistory(graphDDOID: Number, t...
sendCANMessage(canPort: Number, canID: N...
setProperty(ddoID: Number, propertyName: ...
setVariableValue(variableName: String, v...
showSoftkeyFrames(): Bool
```



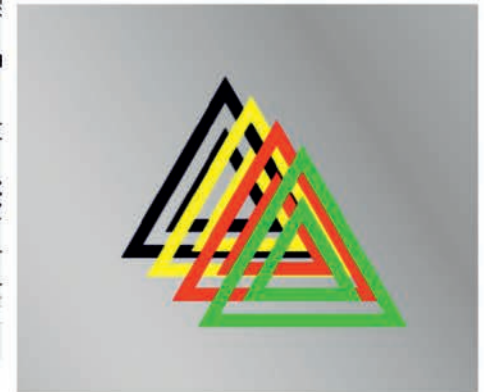
JavaScript and Visual Programming  
New smart JavaScript editor with

- syntax highlighting
- live syntax check and debugging
- Code completion
- Code formatting
- Object drag & drop for custom functions

Visual programming for beginners  
Intuitive drag & drop programming  
McCabe code complexity check

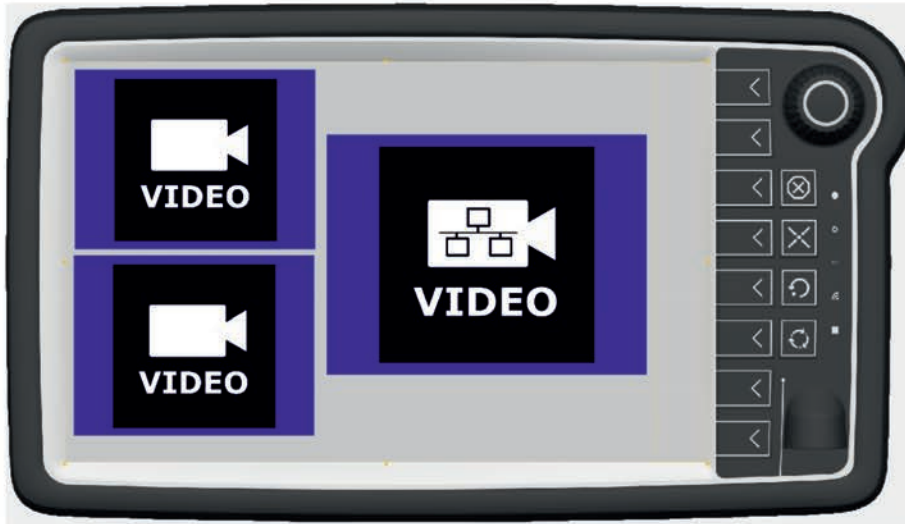
## Symbol library\*

- Over 2400 ISO symbols for free use in your projects
- Intuitive drag & drop for integration in objects
- Live keyword search for fast filtering
- Symbols can be colored easily
- One-Click List object creation with up to 4 colors



\*Content may need to be purchased with additional fee

## Dual Video and Ethernet Camera\*



- Two analog camera inputs simultaneously
- Ethernet camera (H.264 & RTP protocol)
- Up to three video inputs at the same time

\*Available for certain devices

# Three steps to create a project

## 1. Drag & drop objects into your project



## 2. Create and organize your variables easily

Drag & drop variables on objects to reference them.

Variable View - ProjektorProject\_1 - Output

☐ Var ☒ Hide pre-defined variables

	Group Name	Name	Length (Bits)	Index	SubIndex	Owner
Var	Common	Fuel Level	16	0x3000	0x01	PClient
Var	Common	Oil Pressure	16	0x3000	0x03	PClient
Var	Common	RPM	16	0x3000	0x02	PClient



### 3. Create your CAN messages visually

Drag & drop variables into the mapping and move them to create the messages you need

	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1
Byte 1	Fuel_level 8	7	6	5	4	3	2	Fuel_level 1
Byte 2	16	15	14	13	12	11	10	9
Byte 3	24	23	22	21	20	19	18	Speed 17
Byte 4	Speed 32	31	30	29	28	27	26	25
Byte 5	RPM 40	39	38	37	36	35	34	RPM 33
Byte 6	48	47	46	45	44	43	Constant 42	Constant 41
Byte 7	56	55	54	53	52	51	50	Oil_pressure 49
Byte 8	Oil_pressure 64	63	62	61	60	59	58	57

**The first project is easily done –  
but what if you want more?**

# Extended features of the Projektor Tool

## Variable logging



Log the value changes of your variables.  
Export to USB to analyze on your PC.

## Alarms



Easy alarm system to show customized warnings or errors on any page at any time.

## Project Conversion



- New intuitive project conversion
- Automatic softkey assignment suggestion
- Three scaling and aspect ratio choices

## PDF reader



Let the user read the manual directly on the device.

## Simulation



Simulate your project

- PClient simulation directly on your PC
- Variable simulation on the device via ethernet with CAN
- Useful for testing and debugging even without the ECU

## JavaScript



Enhance the functionality of your project with JavaScripts. Execute on any event (button presses, value changes ...). Manipulate objects, behavior, calculations.

## Multi language



Switch languages with a button press or a CAN message.  
Comfortable translations via CSV export/import.

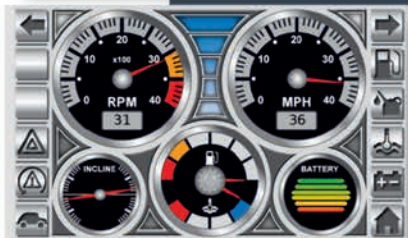
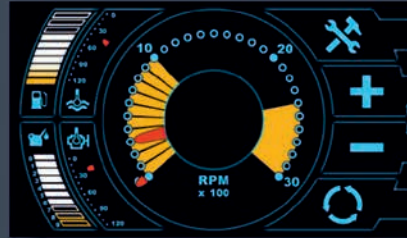
## Variable import



Import variables from another project or CSV file.  
Easier creation for many variables.

One tool – endless possibilities

# What will your project look like ?



For technical questions,  
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<https://www.youtube.com/c/TopconElectronics>



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